ExtremeXOS and Switch Engine v33.2.x EMS Message Catalog

Event Handling and Diagnostics

9039147-00 Rev AA
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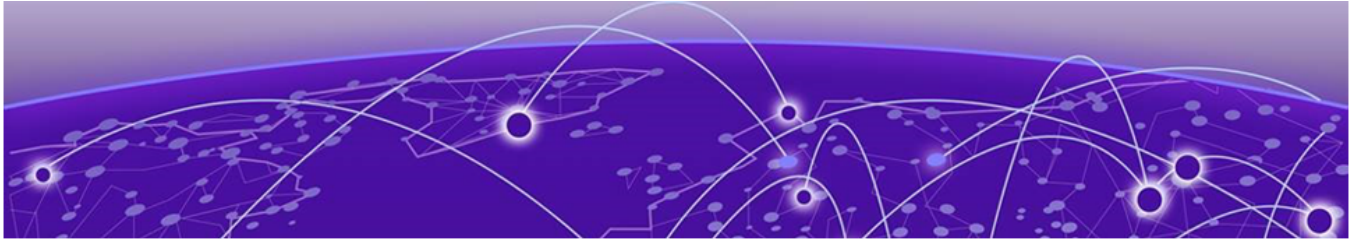

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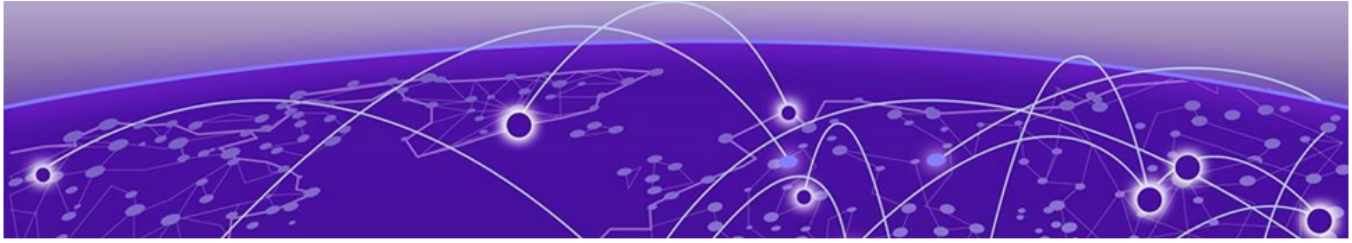

Abstract

This EMS Messages Catalog for ExtremeXOS and Switch Engine version 33.2.x, published by Extreme Networks, Inc. in January 2025, provides a comprehensive list of log messages for all supported platforms. It details various event messages generated by the system, including AAA, ACL, BGP, DHCP, and RADIUS, among others. Each entry includes a description, severity level, message text, and potential remedies, offering administrators detailed insights for troubleshooting and understanding system behavior. The document is a critical resource for network administrators managing and monitoring network events and system diagnostics.

Preface

Read the following topics to learn about:

- The meanings of text formats used in this document.
- Where you can find additional information and help.
- How to reach us with questions and comments.

Text Conventions

Unless otherwise noted, information in this document applies to all supported environments for the products in question. Exceptions, like command keywords associated with a specific software version, are identified in the text.

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Table 1: Notes and warnings

Icon	Notice type	Alerts you to...
	Tip	Helpful tips and notices for using the product
	Note	Useful information or instructions
	Important	Important features or instructions
	Caution	Risk of personal injury, system damage, or loss of data
	Warning	Risk of severe personal injury

Table 2: Text

Convention	Description
`screen displays`	This typeface indicates command syntax, or represents information as it is displayed on the screen.
The words *enter* and *type*	When you see the word *enter* in this guide, you must type something, and then press the Return or Enter key. Do not press the Return or Enter key when an instruction simply says *type*.
Key names	Key names are written in boldface, for example **Ctrl** or **Esc**. If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press **Ctrl**+**Alt**+**Del**
Words in italicized type	Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.
NEW!	New information. In a PDF, this is searchable text.

Table 3: Command syntax

Convention	Description
bold text	Bold text indicates command names, keywords, and command options.
italic text	Italic text indicates variable content.
`[ ]`	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.
`{ x | y | z }`	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x | **y**	A vertical bar separates mutually exclusive elements.
< >	Nonprinting characters, such as passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, *member*[*member*...].
\	In command examples, the backslash indicates a “soft” line break. When a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

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- A description of the failure
- A description of any actions already taken to resolve the problem
- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any related RMA (Return Material Authorization) numbers

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- Improvements that would help you find relevant information.
- Broken links or usability issues.

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Related Publications

Switch Engine Publications

- *ExtremeXOS v33.2.1 Command References*
- *ExtremeXOS v33.2.1 Licensing Guide*
- *Switch Engine and ExtremeXOS v33.2.x EMS Messages Catalog*
- *ExtremeXOS v33.2.1 User Guide*
- *ExtremeXOS v33.2.1 Release Notes*
- *ExtremeXOS Quick Guide*
- *Extreme Hardware/Software Compatibility and Recommendation Matrices*
- *Extreme Optics Compatibility*
- *Switch Configuration with Chalet for ExtremeXOS 21.x and Later*
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- *ExtremeXOS and Switch Engine SNMP Traps Reference*

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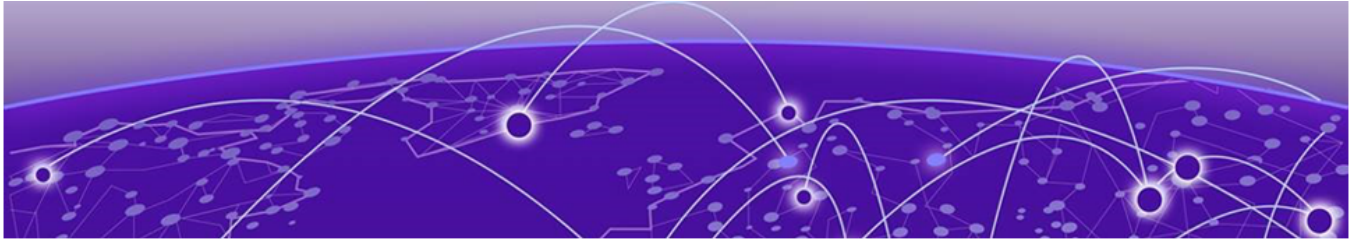


Introduction

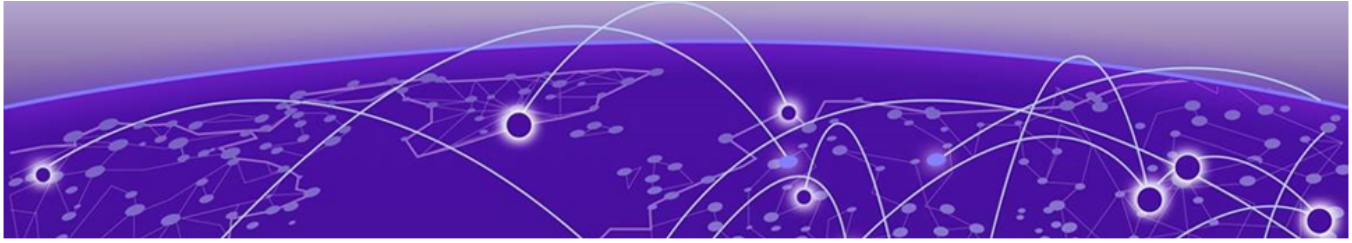
Welcome to *Event Management System (EMS) Messages Catalog*. This document provides an alphabetical listing of all log messages found on all Extreme Networks platforms.

Using this Guide

A typical error message on the switch will look similar to the following:

```
1/29/2015 14:36:48.12 <Warn:VRRP.Advert.Ign> MSM-A: Advert for VR on vlan test vrid 1
ignored: VIP list mismatch
```

To interpret the message, search the guide for the text inside the brackets (< >).



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AAA.localAuthen

Description

User to be authenticated using the local authentication database.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Authenticating user `%user%` locally

Message Parameters

Name	Type
user	AccountName

AAA.usingRadius

Description

User to be authenticated using a RADIUS Server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Authenticate using RADIUS Server

AAA.usingTacacs

Description

User to be authenticated using a TACACS+ Server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Authenticate using TACACS+ Server

AAA.usingLocal

Description

User to be authenticated using the local authentication database.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Authenticate using Local Database

AAA.reqFromPeer

Description

Debug Information: Internal peer id. that authentication request was made from.

Remedy

None. Used for debugging.

Severity

Debug-Summary

Message Text

Handle request from peer `%peer%`

Message Parameters

Name	Type
peer	uInt

AAA.sessions

Description

Number of users logged in.

Remedy

None. Used for debugging.

Severity

Debug-Summary

Message Text

Number of users logged in is `%sessions%`

Message Parameters

Name	Type
sessions	uInt

AAA.InitVlanLibFail

Description

Could not connect to VLAN manager.

Remedy

Inspect system logs to determine why VLAN manager is not available.

Severity

Error

Message Text

VLAN Library initialization failed.

AAA.UnInitRAutSvVr

Description

The configured virtual router for a RADIUS authentication server has been removed.

Remedy

Configure the RADIUS authentication client to use another virtual router or restore the previously configured virtual router.

Severity

Warning

Message Text

Uninitialize RADIUS Authentication Server, Vr `%vr%` has been removed

Message Parameters

Name	Type
vr	String

AAA.UnInitRAccSvVr

Description

The configured virtual router for a RADIUS accounting server has been removed.

Remedy

Configure the RADIUS accounting client to use another virtual router or restore the previously configured virtual router.

Severity

Warning

Message Text

Uninitialize RADIUS Accounting Server, Vr `%vr%` has been removed

Message Parameters

Name	Type
vr	String

AAA.InitRAccSvVr

Description

The configured virtual router for a RADIUS accounting server has been added, initializing RADIUS client for that server.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

Intialize RADIUS Accounting Server, Vr `%vr%` has been added.

Message Parameters

Name	Type
vr	String

AAA.InitRAutSvVr

Description

The configured virtual router for a RADIUS authentication server has been added, initializing RADIUS client for that server.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

Intialize RADIUS Authentication Server, Vr `%vr%` has been added.

Message Parameters

Name	Type
vr	String

AAA.authPass

Description

This message indicates that the identified user has successfully been authenticated and the access method through which the user has logged in. The reported access method can be one of "serial", "remote serial", "telnet", "ssh", "http", or "xml". For IP-based access methods, the remote IP address is included. For SummitStack serial connections the slot number is included.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Login passed for user `%name%` through `%source%`

Message Parameters

Name	Type
name	AccountName
source	String

AAA.authFail

Description

This message indicates that the identified user has failed an authentication attempt and the access method through which the user attempted to log in. The reported access method can be one of "serial", "remote serial", "telnet", "ssh", "http", or "xml". For IP-based access methods, the remote IP address is included. For SummitStack serial connections the slot number is included.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

Login failed due to invalid username/password for user `%name%` through `%source%`

Message Parameters

Name	Type
name	AccountName
source	String

AAA.logout

Description

This message indicates that the identified user has logged out and the access method through which the user had previously logged in. The reported access method can be one of "serial", "remote serial", "telnet", "ssh", "http", or "xml". For IP-based access methods, the remote IP address is included. For SummitStack serial connections the slot number is included.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%administratative%` account (`%name%`) logout from `%source%`

Message Parameters

Name	Type
name	AccountName
source	String
administratative	String

AAA.ipv6ForceLocal

Description

A user has attempted to access the switch using IPv6. Because the EXOS RADIUS and TACACS+ clients do not support IPv6, the user will be authenticated using the local database.

Remedy

Ensure that users accessing the switch using IPv6 have local database accounts.

Severity

Debug-Summary

Message Text

IPv6 is not supported in RADIUS or TACACS+, using local authentication.

AAA.createAccount

Description

Indicates that a new account has been created in the local user database. Included in the message are the user ID that created the account, the type of the new account (admin or user), and the new account name.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

User '%who%' created %accountType% account for user '%user%' successfully.

Message Parameters

Name	Type
who	AccountName
accountType	String
user	AccountName

AAA.changePass

Description

Indicates that the password was changed for a local database account. Included in the message are the ID of the user making the change and the ID of the account for which the password was changed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

User '%who%' changed password for user '%user%' successfully.

Message Parameters

Name	Type
who	AccountName
user	AccountName

AAA.deleteAccount

Description

Indicates that an account has been deleted from the local database. Included in the message are the ID of the user deleting the account and the user ID which has been deleted.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

User '`%who%`' deleted account of user '`%user%`' successfully.

Message Parameters

Name	Type
who	AccountName
user	AccountName

AAA.accountMod

Description

Indicates that a local database account has been modified. Included in the message are the ID of the user making the modifications and the account ID that was modified.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

User '`%who%`' modified `%modType%` setting for '`%user%`' user(s).

Message Parameters

Name	Type
who	AccountName
modType	String
user	AccountName

AAA.accountLockedOut

Description

Indicates that the user has been locked out.

Remedy

The account can be unlocked by an administrative user.

Severity

Warning

Message Text

Account for user '`%user%`' locked out!

Message Parameters

Name	Type
user	AccountName

AAA.Trace

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

AAA.LogSsh

Description

This message includes an informational log message from the EXOS ssh server application.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%log%
```

Message Parameters

Name	Type
log	String

AAA.LogSshDebug

Description

This message includes a debug log message from the EXOS ssh server when the ssh debug facility has been enabled.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%log%`

Message Parameters

Name	Type
log	String

AAA.DecryptMaxStrSizExcd

Description

An invalid encrypted input string is received. Unable to decrypt the received encrypted input string as it is not in the EXOS encrypted string format resulting decrypting string exceeds maximum size.

Remedy

Retry configuration with expected encrypted string format. Encrypted string should be one of the following format " configure radius netlogin primary shared-secret "#<char1>#<char2>.....#<char64>" or " configure radius netlogin primary shared-secret encrypted "<char1><char2>.....<char64>".

Severity

Warning

Message Text

Unable to decrypt the encrypted string. The decrypted string size exceeded the maximum of `%size%`.

Message Parameters

Name	Type
size	uInt

AAA.CreateEncryptAccnt

Description

Indicates that a new encrypted account has been created in the local user database. Included in the message are the user ID that created the account, the type of the new account (admin or user), and the new account name.

Remedy

No action required - Informational message only

Severity

Info

Message Text

User '`%who%`' created encrypted `%accountType%` account for user '`%user%`' successfully.

Message Parameters

Name	Type
who	AccountName
accountType	String
user	AccountName

AAA.ChgAccntPrvlgOK

Description

An administrative session successfully configured the privilege of the account specified to the privilege specified which is different from what it was, and the role of the account is now different. If the account happened to be logged in when this change took place all such sessions will have been forcibly cleared.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Account %account% privilege was successfully changed to %privilege%.

Message Parameters

Name	Type
account	AccountName
privilege	String

AAA.ChgAccntPrvlgFail

Description

An administrative session failed to configure the privilege of the account specified to the privilege specified.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Changing the privilege of the account %account% to %privilege% has failed.

Message Parameters

Name	Type
account	AccountName
privilege	String

AAA.ClearSessAccntPrvlgChg

Description

An administrative session configured the account privilege to be different from what it was, and the session(s) logged in with the account were forcibly cleared. This is equivalent to ending the sessions with the "clear session <sessId>" for all such sessions including console sessions.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Cleared `%count%` session(s) that were logged in with account `%account%` because its privilege changed.

Message Parameters

Name	Type
account	AccountName
count	uInt

AAA.EnblFIPSModeOK

Description

FIPS mode is enabled in AAA process.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Self-Test passed. FIPS mode enabled.

AAA.EnblFIPSModeFail

Description

Unable to properly configure crypto lib with FIPS mode enabled.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Error

Message Text

Failed to enable FIPS mode: `%errString%`

Message Parameters

Name	Type
errString	String

AAA.SendCkptRdyToStby

Description

AAA module is notifiying other stack modules of a possible state change.

Remedy

No action required - diagnostic message only

Severity

Debug-Verbose

Message Text

Stack Mode State Change Notification: slot:`%slot%` MsgId:`%msgId%` State:`%state%` status:`%status%` length:`%length%`.

Message Parameters

Name	Type
slot	uInt
msgId	uInt
state	uInt

Name	Type
status	uInt
length	uInt

AAA.RecvCkptMsg

Description

AAA module has received a checkpoint message.

Remedy

No action required - diagnostic message only

Severity

Debug-Verbose

Message Text

Stack Mode State Change Notification: peerId:`%peerId%` MsgId:`%msgId%` Length:`%length%` Flags:`%flags%`.

Message Parameters

Name	Type
peerId	uInt
msgId	uInt
length	uInt
flags	uInt

AAA.ClearSessAccntDel

Description

An administrative session deleted the account, and the session(s) logged in with the account were forcibly cleared. This is equivalent to ending the sessions with the "clear session <sessId>" for all such sessions including console sessions.

Remedy

No action required - Notification message only.

Severity

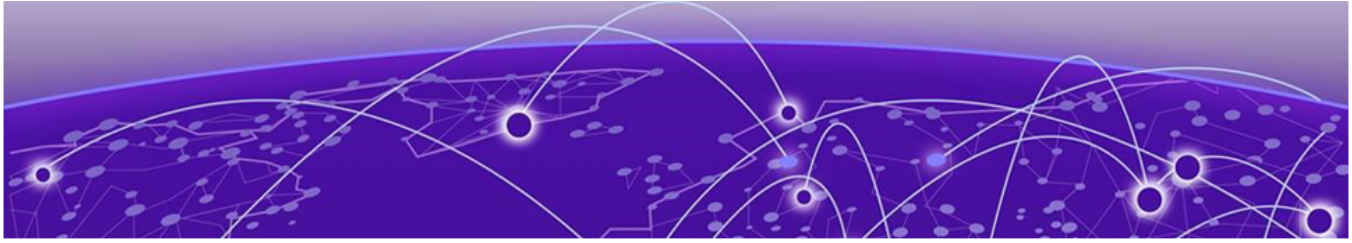
Notice

Message Text

Cleared `%count%` session(s) that were logged in with account `%account%` because the account was deleted.

Message Parameters

Name	Type
account	AccountName
count	uInt



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AAA.RADIUS.TLSFail

Description

RADIUS over TLS has failed to establish an SSL connection to the RADIUS server.

Remedy

Resolve the specific cause for the connection failure.

Severity

Error

Message Text

```
Radius TLS connection(%dstIP%:%tlsPort%) failed: %errString%.
```

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt32
errString	String

AAA.RADIUS.TLSParmInv

Description

Failure to establish an SSL connection to the RADIUS server due to invalid parmaters passed to connection routines.

Remedy

This is a rare internal condition needing technical assistence. Contact technical support.

Severity

Error

Message Text

Radius TLS connection failed due to invalid internal parameters.

AAA.RADIUS.TLSCnctTerm

Description

SSL connection to the RADIUS server is terminated by unconfigure.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

RADIUS TLS connection (`%dstIP%:%tlsPort%`) terminated.

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt16

AAA.RADIUS.SSLWritFail

Description

SSL_write failed.

Remedy

No action required - dispatch will call SSL_write again.

Severity

Warning

Message Text

SSL Write to the RADIUS server (`%dstIP%:%tlsPort%`) failed.

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt16

AAA.RADIUS.TLSAddDsptchFail

Description

Could not add the given socket to the dispatcher.

Remedy

Try to replicate this issue and contact technical support with "show tech" output for further assistance.

Severity

Error

Message Text

Failed to add socket `%socket%` for RADIUS TLS connection (`%dstIP%:%tlsPort%`) to dispatcher.

Message Parameters

Name	Type
socket	sInt
dstIP	String
tlsPort	uInt16

AAA.RADIUS.TLSCnctDrop

Description

SSL connection to the RADIUS server is lost

Remedy

Wait for network connection to resume or fix any problem that has brought down network connection between switch and RADIUS server.

Severity

Notice

Message Text

Radius TLS connection (`%dstIP%:%tlsPort%`) is lost.

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt16

AAA.RADIUS.TLSCrtfctVrfyFail

Description

SSL certificate verification failed.

Remedy

Resolve the specific cause for the connection failure.

Severity

Error

Message Text

RADIUS TLS certificate verificatation error: `%err%` (`%errString%`)

Certificate at depth: `%depth%`

Issuer: `%issuer%`

Subject: `%subject%`

Message Parameters

Name	Type
err	sInt
errString	String
depth	sInt
issuer	String
subject	String

AAA.RADIUS.TLSOCSPStrtFail

Description

Unable to start the OCSP check.

Remedy

Resolve the specific cause for the OCSP failure.

Severity

Error

Message Text

Radius TLS connection (`%dstIP%:%tlsPort%`) failed: `%aaaErrStr%` `%fncName%` returned \"`%errStr%`\".

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt32
fncName	String
aaaErrStr	String
errStr	String

AAA.RADIUS.TLSCnctFailUnk

Description

Failure to establish SSL connection to the RADIUS server with unknown reason. SSL library did not return a valid error code. One possible scenario is that server closes socket after receiving hello message from client.

Remedy

In certain rare cases, SSL connect could fail with no error returned. Contact technical support with "show tech" output for further assistance.

Severity

Error

Message Text

Radius TLS connection (%dstIP%:%tlsPort%) failed: %aaaErrStr% %fncName% returned \"%errStr%\".

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt16
aaaErrStr	String

AAA.RADIUS.TLSCnctFail

Description

Failure to establish SSL connection to the RADIUS server.

Remedy

Resolve the specific cause for the connection failure.

Severity

Error

Message Text

Radius TLS connection (%dstIP%:%tlsPort%) failed: %aaaErrStr% %fncName% returned \"%errStr%\".

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt16
aaaErrStr	String
fncName	String
errStr	String

AAA.RADIUS.TLSStrtRecnct

Description

Automatic periodic SSL reconnection to the RADIUS server has started.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Starting RADIUS TLS reconnection (`%dstIP%:%tlsPort%`) timer with an initial period of `%timerPeriod%` seconds.

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt16
timerPeriod	uInt

AAA.RADIUS.TLSStrtTimerFail

Description

Failed to start timer for RADIUS TLS connection.

Remedy

Check the memory statistics. Otherwise, reboot the switch.

Severity

Error

Message Text

Failed to start timer for Radius TLS connection (`%dstIP%:%tlsPort%`).

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt32

AAA.RADIUS.TLSOCSPFail

Description

OCSP Check failed.

Remedy

Resolve the specific cause for the OCSP failure.

Severity

Error

Message Text

Radius TLS connection (`%dstIP%:%tlsPort%`) failed: `%aaaErrStr%` at depth `%depth%`. `%fncName%` returned \"`%errStr%`\".

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt32
depth	uInt8
fncName	String
errStr	String
aaaErrStr	String

AAA.RADIUS.TLSCnctEstb

Description

TLS connection to the RADIUS server is successfully established.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Radius TLS connection (`%dstIP%:%tlsPort%`) established.

Message Parameters

Name	Type
dstIP	String
tlsPort	uInt32

AAA.RADIUS.sendFailure

Description

The RADIUS client has failed to send a request to the RADIUS serverType ("authentication" or "accounting") server with index (configured index, "primary" or "secondary") on behalf of the user with userName on the indicated port due to a socket layer error.

Remedy

None.

Severity

Error

Message Text

Unable to transmit request to `%serverType%` server #`%serverId%` on behalf of `%user%` (usernameName '`%userName%`s') on port `%port%`

Message Parameters

Name	Type
serverType	String
serverId	String
user	AccountName
userName	AccountName
port	SlotPort

AAA.RADIUS.reponseTypeErr

Description

A response to a RADIUS request was received containing an unknown or unsupported response type.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

Unsupported type in RADIUS response `%typeString%`

Message Parameters

Name	Type
typeString	String

AAA.RADIUS.pktIdAllConsumd

Description

There are a limited number of request IDs available per RADIUS connection. When a request is created a request ID is consumed, and cannot be reused until the corresponding response has been received from the RADIUS server or a response timeout has occurred. Once the limited number has been reached, authentication requests will be queued to be serviced later.

Remedy

Verify that the configured RADIUS servers are operational and reachable. Wait for responses from the RADIUS server, or wait until requests time out.

Severity

Warning

Message Text

All request IDs have been consumed

AAA.RADIUS.BadAuthen

Description

Received Bad Authenticator in a response from a RADIUS server.

Remedy

Verify that the shared secret is configured correctly.

Severity

Warning

Message Text

Bad Authenticator in response from RADIUS server `%ipAddr%`

Message Parameters

Name	Type
ipAddr	IP

AAA.RADIUS.sendSuccess

Description

A RADIUS request has been successfully sent to server. The sent packet was of request type ("Access Request", "Accounting Start Request", "Accounting Stop Request", "Accounting Update Request", or "Password Change Request") with the specified packet length, source port of protocol type ("UDP", "TLS") and RADIUS packet id. The request was sent to the configured serverId (configured index, "primary" or "secondary) on behalf of the user with userName authenticated by the agent ("dot1x, "pwa",

"macauthentication", "cep", "radius-snooping", "auto-tracking" or "quarantine") on the indicated port.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%requestType%`(packet length `%pktLength%`, source `%proto%` port `srcPort`, id `%pktId%`) sent to server #`%serverId%` for user `%user%`(userName '`%userName%`') for the `%agent%` agent on port `%port%`

Message Parameters

Name	Type
requestType	String
pktLength	uInt32
srcPort	srcL4port
pktId	uInt8
serverId	String
user	AccountName
userName	AccountName
agent	String
port	SlotPort
proto	String

AAA.RADIUS.vsaAttrMismatch

Description

A length mismatch has been detected for a received VSA.

Remedy

None.

Severity

Warning

Message Text

radDecodeVsa: Length mismatch for encapsulated attr `%attr%`

Message Parameters

Name	Type
attr	uInt

AAA.RADIUS.vsaUnknownVend

Description

A RADIUS response has been received with an unknown vendor's specific VSA.

Remedy

Verify the RADIUS server configuration.

Severity

Notice

Message Text

radDecodeVsa: Unknown vendor `%vendor%` specific attribute `%attr%`

Message Parameters

Name	Type
vendor	String
attr	uInt

AAA.RADIUS.unknownExtrVsa

Description

A RADIUS response has been received with an unknown Extreme VSA.

Remedy

Verify the RADIUS server configuration.

Severity

Warning

Message Text

radDecodeVsa: Unknown EXTREME VSA `%attr%`

Message Parameters

Name	Type
attr	uInt

AAA.RADIUS.sendCommand

Description

Sending request to RADIUS server for per-command authorization.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Sending command `%command%` for authentication

Message Parameters

Name	Type
command	String

AAA.RADIUS.PktReadWrite

Description

Received request with readWrite value of 1 (admin) 0 (user).

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

ParsePkt: readWrite value `%value%`

Message Parameters

Name	Type
value	uInt

AAA.RADIUS.PktAuthEn

Description

Response from RADIUS indicates whether per command authentication has been enabled for the user.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

ParsePkt: CLI Auth for `%name%` is `%enbDis%`

Message Parameters

Name	Type
name	AccountName
enbDis	String

AAA.RADIUS.PktNetLoginVlan

Description

Received VLAN VSA from RADIUS server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received VLAN VSA `%value%`

Message Parameters

Name	Type
value	String

AAA.RADIUS.PktNetLoginUrl

Description

Received URL VSA from server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

ParsePkt: NetloginUrl `%value%`

Message Parameters

Name	Type
value	String

AAA.RADIUS.PktNetLoginUrlD

Description

Received URL Descriptions VSA from server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

ParsePkt: NetloginUrlDesc `%value%`

Message Parameters

Name	Type
value	String

AAA.RADIUS.PktNetLoginOnly

Description

Received Net Login Only VSA from server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

ParsePkt: NetloginOnly `%enbDis%`

Message Parameters

Name	Type
enbDis	String

AAA.RADIUS.socketFailure

Description

Could not create socket.

Remedy

None. Internal error.

Severity

Info

Message Text

RADIUS: socket create failed

AAA.RADIUS.bindFailure

Description

Failed to bind.

Remedy

Verify that a valid client IP address was configured.

Severity

Info

Message Text

RADIUS: aaa_radius_bind failed

AAA.RADIUS.PktAttrType

Description

Received request with specified attribute type.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

ParsePkt: attr type `%value%`

Message Parameters

Name	Type
value	uInt

AAA.RADIUS.PktCliCommand

Description

Received Packet with CLI command.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

CLI command `%value%`

Message Parameters

Name	Type
value	String

AAA.RADIUS.RadiusEnable

Description

RADIUS has been enabled for the indicated service, which is one of "Switch Management", "Netlogin", or "VM Tracking".

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%set%` RADIUS Server Enabled

Message Parameters

Name	Type
set	String

AAA.RADIUS.RadiusAccEnable

Description

RADIUS accounting has been enabled for the indicated service, which is one of "Switch Management" or "Netlogin".

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%set%` RADIUS Accounting Server Enabled

Message Parameters

Name	Type
set	String

AAA.RADIUS.serverFailInit

Description

RADIUS client failed to initialize connection to server.

Remedy

Disable, and setup configuration correctly and enable again.

Severity

Warning

Message Text

Server Failed to Initialize

AAA.RADIUS.threadCreError

Description

Unable to create RADIUS thread.

Remedy

Restart AAA process.

Severity

Warning

Message Text

Pthread RadiusAuthThread creation error `%value%`

Message Parameters

Name	Type
value	uInt

AAA.RADIUS.noServerResp

Description

The authentication retransmission algorithm has attempted the configured number of retries to the configured and initialized number of servers without receiving a response on behalf of the user with username on the indicated port. The RADIUS software will not retransmit additional requests for this transaction.

Remedy

Verify that all configured RADIUS servers are operational and reachable.

Severity

Warning

Message Text

Attempted the configured number of retries (`%retries%`) to each of the `%numServers%` authentication servers without a server response for `%user%`(username '`%userName%`') on port `%port%`.

Message Parameters

Name	Type
retries	uInt32
numServers	uInt32
user	AccountName
userName	AccountName
port	SlotPort

AAA.RADIUS.RadiusDisable

Description

The RADIUS server set has been disabled, either via netlogin or switch management.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%set%` RADIUS Server Disabled

Message Parameters

Name	Type
set	String

AAA.RADIUS.serverNotInit

Description

The RADIUS service has been enabled but the server has not been initialized.

Remedy

Ensure that the RADIUS server configuration is correct.

Severity

Error

Message Text

`%service%` server for `%set%` is not initialized

Message Parameters

Name	Type
service	String
set	String

AAA.RADIUS.resendServAdmin

Description

The Merit RADIUS Authentication server requires that the authentication request service type match the configured (Merit server) service type. When an authentication request is first sent, the service type to is set to Login User, if this fails then it's possible that the user is configured as an Adminstrative User on the Merit server, so we resend the authentication request with the service type set to a Adminstrative User on the second attempt.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Resend Authen Request with service type set to Admin

AAA.RADIUS.goLocal

Description

System error in sending authentication request, will attempt local authentication.

Remedy

Verify that the RADIUS configuration is correct. Verify that all configured RADIUS servers are operational and reachable.

Severity

Error

Message Text

Failed to send authentication to RADIUS servers, trying local.

AAA.RADIUS.noServResp

Description

No response from the indicated accounting server index (configured index, primary or secondary) has been received after the configured number of retries on behalf of user with username on the indicated port. If additional servers are configured they will be attempted.

Remedy

Verify that the RADIUS accounting configuration is correct. Ensure that the specified accounting RADIUS server is operational and reachable.

Severity

Warning

Message Text

Attempted the configured number of retries (`%retries%`) to accounting server #`%serverId%` without a server response for user `%user%`(username '`%username%`') on port `%port%`.

Message Parameters

Name	Type
retries	uInt32
serverId	String
user	AccountName
username	AccountName
port	SlotPort

AAA.RADIUS.bindFailVr

Description

Switch was unable to send a request to the RADIUS server because the RADIUS server could not be reached via the specified Virtual Router.

Remedy

Verify that the specified Virtual Router exists on the switch. If it is not present, create the required Virtual Router or reconfigure to use another.

Severity

Error

Message Text

Switch cannot reach RADIUS server via the configured Virtual Router `%vr%`.

Message Parameters

Name	Type
vr	String

AAA.RADIUS.PktNetLoginVlanTag

Description

Received an Extreme Networks VSA containing VLAN tag.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received VLAN ID VSA `%value%`

Message Parameters

Name	Type
value	sInt32

AAA.RADIUS.PktAddAttrType

Description

Add an attribute to accounting request.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Add: attr type `%value%`

Message Parameters

Name	Type
value	uInt

AAA.RADIUS.LocalNLAuth

Description

This user was authenticated using the netlogin local user database.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Authenticated NetLogin user `%user%` locally

Message Parameters

Name	Type
user	AccountName

AAA.RADIUS.Trace

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

AAA.RADIUS.SecurityProfile

Description

Received Extreme VSA Security Profile

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received Security Profile `%value%`

Message Parameters

Name	Type
value	String

AAA.RADIUS.noRespForDot1xReq

Description

A response was not received from the RADIUS server for an 802.1x request.

Remedy

Verify that all configured RADIUS servers are operational and reachable.

Severity

Warning

Message Text

No response from RADIUS server `%host%` for 802.1x request sent from switch.

Message Parameters

Name	Type
host	IP

AAA.RADIUS.PktNetLoginExtVlan

Description

Received Vlan VSA from server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received EXT VLAN VSA vlan `%value%` vlan tagged value `%tag%`

Message Parameters

Name	Type
value	String
tag	sInt32

AAA.RADIUS.QueueFull

Description

The RADIUS request queue has reached its maximum limit. AAA will not send any more requests to any RADIUS server until the queue goes below its maximum limit.

Remedy

Check the RADIUS statistics on the switch, verify that the RADIUS configuration is correct, and ensure that the configured RADIUS servers are operational and reachable.

Severity

Error

Message Text

RADIUS queue is full, check RADIUS configuration and/ or check RADIUS server.

AAA.RADIUS.nlExtVlanVSAIgnoreVlans

Description

Received an Extended VLAN VSA from a RADIUS server containing more than 10 VLANs.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

Ignoring extra VLANs in RADIUS Extended VLAN VSA. A maximum of 10 VLANs is supported.

AAA.RADIUS.InvalidTlv

Description

Value in TLV is invalid.

Remedy

No remedy is available.

Severity

Warning

Message Text

Warning: `%tlvName%` is invalid : `%val%`

Message Parameters

Name	Type
tlvName	String
val	uInt

AAA.RADIUS.VMName

Description

Received VSA containing VM name from a RADIUS server.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

VSA VM name `%vmName%` received from RADIUS server.

Message Parameters

Name	Type
vmName	String

AAA.RADIUS.VMVppName

Description

Received VSA VM Vpp name from RADIUS server.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

VSA VM Vpp name `%vppName%` received from RADIUS server.

Message Parameters

Name	Type
vppName	String

AAA.RADIUS.VMVlanTag

Description

Received VSA VM Vlan Tag from RADIUS server.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

VSA VM Vlan Tag `%vlanTag%` received from RADIUS server.

Message Parameters

Name	Type
vlanTag	uInt32

AAA.RADIUS.VMIpAddr

Description

Received VSA VM IP Address from RADIUS server.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

VSA VM IP Address `%ipAddr%` received from RADIUS server.

Message Parameters

Name	Type
ipAddr	IP

AAA.RADIUS.VMVrName

Description

Received VSA VM Vr name from RADIUS server.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

VSA VM Vr name `%vrName%` received from RADIUS server.

Message Parameters

Name	Type
vrName	String

AAA.RADIUS.PktLenInv

Description

The packet received by the RADIUS client has an invalid length of 0. The packet indicates that the response sent by the RADIUS server was in response to a request sent on behalf of user and userName on the indicated port.

Remedy

None. This is an invalid RADIUS frame.

Severity

Error

Message Text

Received 0 length packet for `%user%`(userName `%userName%`) on port `%port%`.

Message Parameters

Name	Type
user	AccountName
userName	AccountName
port	SlotPort

AAA.RADIUS.RecvPktInv

Description

There is an error in the received RADIUS packet from the serverType ("authentication" or "accounting") server with index (configured index, "primary" or "secondary). The error type can be one of "invalid vsa format", "invalid ms key salt", "invalid ms key", "unknown service type", "invalid login service", "invalid login lat attribute", "multiple eap attributes", "invalid message authenticator", "unsupported termination action", "unsupported attribute", "unsupported RADIUS message type", "eap attribute with no message authenticator", "invalid packet length", "invalid authenticator" or "unknown response type".

Remedy

If the error is related to attribute support confirm that the indicated RADIUS server needs to be sending the indicated attribute value.

Severity

Error

Message Text

Error in received protocol packet from `%serverType%` server #`%serverId%`: `%errorType%`.

Message Parameters

Name	Type
serverType	String
serverId	String
errorType	String

AAA.RADIUS.ApiReq

Description

A request("PAP request", "CHAP request", "EAP request", "Challenge Response", "Password Change request", "Accounting Start", "Accounting stop" or "Accounting update" has been received by the RADIUS software on behalf of user with username on the indicated port.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%reqType%` for `%user%`(username '`%userName%`') on port `%port%`.

Message Parameters

Name	Type
reqType	String
user	AccountName
userName	AccountName
port	SlotPort

AAA.RADIUS.RecvRspns

Description

The RADIUS software received a response ("access accept", "Accounting Start Response", "Accounting Stop Response", "Accounting Update Response", "Authentication Challenge Response" or "Authentication Access Reject") with the specified packet length, destination port of protocol type ("UDP", "TLS") and RADIUS packet id. This response was sent by the ("authentication", "accounting) server #(configured index, "primary or "secondary"). This response was matched to a request sent on behalf of user with userName on the indicated port.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%requestType%`(packet length `%pktLength%`, source `%proto%` port `srcPort`, id `%pktId%`) sent to server #`%serverId%` for user `%user%`(userName '`%userName%`') for the `%agent%` agent on port `%port%`

Message Parameters

Name	Type
rspType	String
pktLength	uInt32
dstPort	dstL4port
pktId	uInt8
serverType	String
serverId	String
user	AccountName
userName	AccountName
port	SlotPort
proto	String

AAA.RADIUS.SrvrReqTmout

Description

The RADIUS software is no longer waiting for the most recent request sent to the ("authentication" or "acounting") server #(configured index, "primary" or secondary") on behalf of the user with userName on the indicated port. The timeout for RADIUS requests can be configured on either a per realm or per server basis (configure [radius | radius-accounting] {mgmt-access | netlogin | primary | secondary | <index>} timeout <secs>).

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Timeout for `%serverType%` server #`%serverId%` for `%user%`(userName '`%userName%`') on port `%port%`.

Message Parameters

Name	Type
serverType	String
serverId	String
user	AccountName
userName	AccountName
port	SlotPort

AAA.RADIUS.NameLenInv

Description

A username with no length was received by the RADIUS software on behalf of the indicated port.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

0 length username on port `%port%`.

Message Parameters

Name	Type
port	SlotPort

AAA.RADIUS.SrvrRtrnAccessVal

Description

The RADIUS server returned these authorization values for the user with userName on the indicated port: Access Level ("Read-Write", "Read-only", "Framed" or "unknown"), Tunnel Type ("none", "vlan" or "unknown"), Tunnel Medium ("none", "802" or "unknown"), Tunnel Group Id (vlan identifier), Session Timeout (session timeout value in seconds) Idle Timeout (idle timeout value in seconds), FilterId (Policy FilterId), VrName (VR to use for dynamically created vlans), and NSI Type/ID (used for Dynamic VxLan). This

message indicates that these attributes and their respective values were returned from the RADIUS server but does not guarantee that the authenticating agent will use them.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Authorization values for `%user%`(userName '`%userName%`') on port `%port%`: Access level - `%accessLevel%`, Tunnel Type - `%tunnelType%`, Tunnel Medium - `%tunnelMedium%`, Tunnel Group Id - `%tunnelGroupId%`, Session Timeout - `%sessionTimeout%`, Idle Timeout - `%idleTimeout%`, FilterId: `%filterId%`. VrName: `%vrName%` NsiType: `%nsiType%` NsiId: `%nsiId%`

Message Parameters

Name	Type
user	AccountName
userName	AccountName
port	SlotPort
accessLevel	String
tunnelType	String
tunnelMedium	String
tunnelGroupId	uInt32
sessionTimeout	uInt32
idleTimeout	uInt32
filterId	String
vrName	String
nsiType	uInt32
nsiId	uInt32

AAA.RADIUS.SetFIPSModeFail

Description

Unable to properly configure crypto lib when FIPS mode enabled.

Remedy

Not Expected, Verify image has not been tampered with, Reboot the device, re-install or update the EXOS image. Did this happen on First or Subsequent reboot after FIPS mode was enabled? Did this happen on a Stacked system? Was any additional config added prior to the last reboot?

Severity

Error

Message Text

Internal Error while attempting to enable FIPS mode in AAA process. Non-compliant Algorithms may be active.

AAA.RADIUS.NLVrName

Description

Received VSA NL Vr name from RADIUS server.

Remedy

No action required - Information message only.

Severity

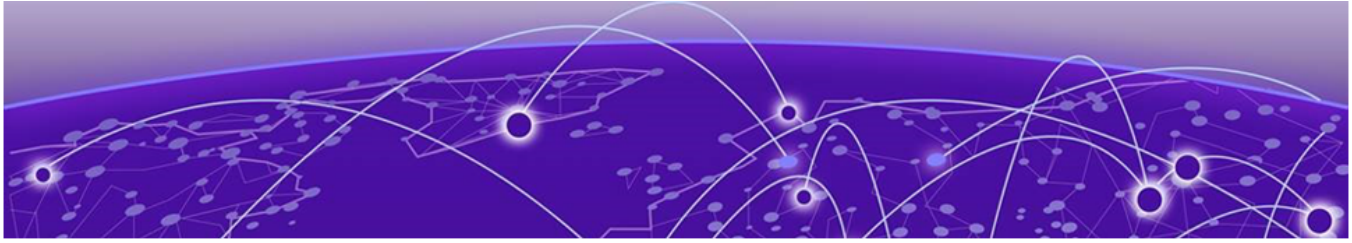
Debug-Data

Message Text

VSA NL Vr name `%vrName%` received from RADIUS server.

Message Parameters

Name	Type
vrName	String



AAA.TACACS Messages

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AAA.TACACS.socketFailure

Description

Failed to create a socket for TACACS+.

Remedy

None. Internal system failure.

Severity

Warning

Message Text

TACACS: socket create failed

AAA.TACACS.bindFailure

Description

The TACACS+ client is unable to bind to the configured IP address.

Remedy

Ensure that a valid client IP address was configured.

Severity

Error

Message Text

TACACS: aaa_radius_bind failed

AAA.TACACS.sockwriteError

Description

The TACACS+ client has encountered an error when attempting to send a request to TACACS+ server.

Remedy

None. System Failure.

Severity

Error

Message Text

Error writing to remote host %host% error=%error%

Message Parameters

Name	Type
host	IPaddrN
error	sInt

AAA.TACACS.readPktNull

Description

Error when attempting to read a response from a TACACS+ server.

Remedy

None.System Error.

Severity

Error

Message Text

read_packet: return NULL

AAA.TACACS.authReq

Description

Send authentication request for EXOS authentication peer.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

TACACS+ send authentication request for peer %peer%

Message Parameters

Name	Type
peer	uInt

AAA.TACACS.connectErr

Description

Unable to connect to configured TACACS+ server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

tacp_send_authen_req: Unable to connect to host `%host%`

Message Parameters

Name	Type
host	IPaddrN

AAA.TACACS.sendPassword

Description

Sending request with password to the TACACS+ server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Send password for peer `%peer%`

Message Parameters

Name	Type
peer	uInt

AAA.TACACS.tacpContinue

Description

Send continue packet to the TACACS+ server, this is sent after receiving an initial response from the server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

tacp_authen_continue for peer=`%peer%`

Message Parameters

Name	Type
peer	uInt

AAA.TACACS.tacpContinueRep

Description

Reply status returned from the TACACS+ server.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

tacp_authen_continue: reply_status `%reply_status%`

Message Parameters

Name	Type
reply_status	uInt

AAA.TACACS.authorInit

Description

Initialize authentication request for TACACS+ server.

Remedy

No action required - Informational message only. Used for debugging.

Severity

Debug-Summary

Message Text

Initialize authorization

AAA.TACACS.authorInitFail

Description

Unable to connect to configured TACACS+ server.

Remedy

Check configuration. Ensure that the TACACS+ server is operational and reachable.

Severity

Error

Message Text

Authorization Init failure for host `%host%`

Message Parameters

Name	Type
host	IPaddrN

AAA.TACACS.authorCommand

Description

Send Command authorization request for an EXOS peer.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Authorize command :`%command%`: for peer `%peer%`

Message Parameters

Name	Type
command	String
peer	uInt

AAA.TACACS.authorResponse

Description

Received Authorization response for user.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Authorization Response for user `%user%` for command `%command%`

Message Parameters

Name	Type
user	AccountName
command	String

AAA.TACACS.authorFailed

Description

Failed to authorize a command for a user. The status is returned.

Remedy

If status is 0x11, there is a sytem failure. All other status values are informational.

Severity

Info

Message Text

Command Authorization Failed

AAA.TACACS.authorRespStat

Description

Received Authorization response for user.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Authentication Response status `%status%`

Message Parameters

Name	Type
status	uInt

AAA.TACACS.getprivResponse

Description

Received user privilege level , admin (>=15) or user (any other value).

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Get user privilege level

AAA.TACACS.getprivRespStat

Description

Privilege response packet status.

Remedy

If status is 0x11, there is a sytem failure. All other status values are informational.

Severity

Debug-Summary

Message Text

Privilege Status `%status%`

Message Parameters

Name	Type
status	uInt

AAA.TACACS.authenRequest

Description

Sending an Authentication Request.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Authenticate Request.

AAA.TACACS.swapHost

Description

The TACACS+ client is switching to an alternate TACACS+ server. When the client cannot connect to a server, it then attempts to use an alternate server if one is configured.

Remedy

Check TACACS+ configuration and verify that the configured servers are operational and reachable.

Severity

Warning

Message Text

Swap host to `%host%`

Message Parameters

Name	Type
host	IPaddrN

AAA.TACACS.initAcc

Description

Initialize TACACS+ accounting request.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Intialize Accounting server.

AAA.TACACS.acctResponse

Description

Received a response from an accounting server.

Remedy

No action required - Informational message only. Used for debugging.

Severity

Debug-Summary

Message Text

Accouting Response

AAA.TACACS.acctRespStat

Description

Received Accountin response for user.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Accounting response for user :`%user%`: status is :`%status%`:

Message Parameters

Name	Type
user	AccountName
status	sInt

AAA.TACACS.logCommand

Description

Sending log of command to TACAS server.

Remedy

None. Used for debugging.

Severity

Debug-Summary

Message Text

Log Command

AAA.TACACS.tacpContFail

Description

Received error response for authentication continue request.

Remedy

If error is 0x21 this is a compatiblity error (the client may not be compatible with the server). All other values are informational. .

Severity

Info

Message Text

tacp_authen_continue failure: reply_status `%reply_status%`

Message Parameters

Name	Type
reply_status	uInt

AAA.TACACS.goLocal

Description

A system error was encountered when attempting to send an authentication request, using local authentication.

Remedy

Check configuration and that servers are reachable.

Severity

Error

Message Text

Failed to send authentication to `%host%` trying local.

Message Parameters

Name	Type
host	IPaddrN

AAA.TACACS.Trace

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

AAA.TACACS.authReqSent

Description

An authentication request for a user was sent to a TACACS+ server.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Sent authentication request for `%user%` connecting from `%from_station%` to TACACS+ server `%to_server%`.

Message Parameters

Name	Type
user	AccountName
from_station	String
to_server	IPaddrN

AAA.TACACS.authReqResponse

Description

Received an authorization response from a TACACS+ server for a user.

Remedy

No action required - Informational message only.

Severity

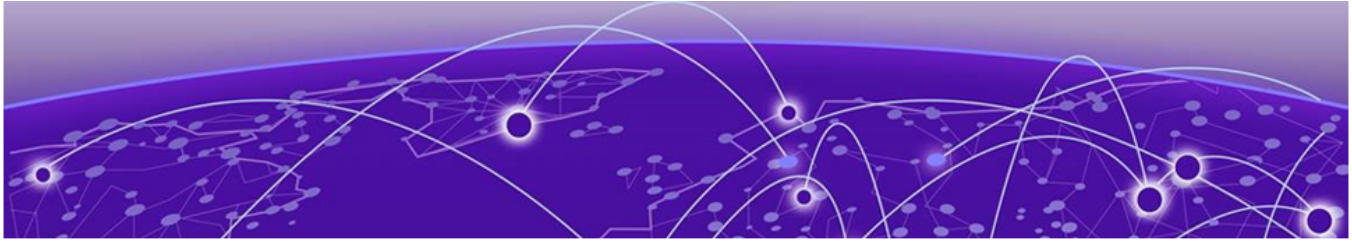
Info

Message Text

Received response for `%user%` from TACACS+ server `%from_server%` : Authorization for `%user%` `%result%`.

Message Parameters

Name	Type
user	AccountName
from_server	IPaddrN
result	String



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ACL.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

ACL.BndNetZonePlcy

Description

The network zone identified by the zoneName parameter is being bound to the policy identified by the policyName parameter.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Network zone `%zoneName%` got bound to policy `%policyName%`

Message Parameters

Name	Type
zoneName	String
policyName	String

ACL.AddNetZoneAttr

Description

The specified attribute is added to the network zone identified by zoneName.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Network zone `%zoneName%` - Added `%attribute%` mask `%mask%`

Message Parameters

Name	Type
zoneName	String
attribute	String
mask	String

ACL.DelNetZoneAttr

Description

The specified attribute is removed from the network zone identified by zoneName.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Network zone `%zoneName%` - Removed `%attribute%` mask `%mask%`

Message Parameters

Name	Type
zoneName	String
attribute	String
mask	String

ACL.AddNetZonePlcyAttr

Description

The specified attribute is added to the policy, where the entry is derived from the network zone configuration, and the network zone is part of the policy.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Entry `%entryName%` with `%attribute%` `%attrVal%` mask `%mask%` is added to policy `%policyName%`. Original entry : `%origEntryName%` Network zone : `%zoneName%`

Message Parameters

Name	Type
entryName	String
attribute	String
attrVal	String
mask	String
policyName	String
origEntryName	String
zoneName	String

ACL.DelNetZonePlcyAttr

Description

The specified attribute removed from the policy, where the entry is derived from the network zone configuration, and the network zone is part of the policy.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Entry `%entryName%` with `%attribute%` `%attrVal%` mask `%mask%` is removed from policy `%policyName%`. Original entry : `%origEntryName%` Network zone : `%zoneName%`

Message Parameters

Name	Type
entryName	String
attribute	String
attrVal	String
mask	String
policyName	String
origEntryName	String
zoneName	String

ACL.UnbndNetZonePlcy

Description

The specified policy's last instance has got removed from acl, and hence the policy's link with the network zone is removed.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Network zone `%zoneName%` got unbound from policy `%policyName%`

Message Parameters

Name	Type
zoneName	String
policyName	String

ACL.ChkPlcyForAppFail

Description

The policy has the match condition specified in the message, which is not supposed to be present. For example, policies applied in egress cannot have "redirect", policies applied from Identity Manager cannot have "source-address", etc... Or, the policy's entry may have both "source-address" and a source-zone which in turn has "source-address".

Remedy

Remove the match condition specified, from the policy, and try again.

Severity

Error

Message Text

Check policy `%policyName%` for application `%applName%` failed. Policy has `%attrName%`.

Message Parameters

Name	Type
policyName	String
applName	String
attrName	String

ACL.CfgDynACL

Description

The specified dynamic rule from CLI or from a client (like fdb, identity manager, xnv, dot1ag, etc...) is configured on the particular port in the given direction. Direction values would be 0 - Ingress, 1 - Egress.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Configure `%ruleName%` in port `%portString%` VLAN `%vlanInst%` direction `%direction%`

Message Parameters

Name	Type
ruleName	String
portString	SlotPort
vlanInst	uInt32
direction	uInt32

ACL.UncfgDynACL

Description

The specified rule from CLI or from a client (like fdb, identity manager, xnv, dot1ag, etc...) has been unconfigured from the particular port in the given direction. Direction value would be 0 - Ingress, 1 - Egress.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Unconfigure rule `%ruleName%` from port `%portString%` VLAN `%vlanInst%` in direction `%direction%`

Message Parameters

Name	Type
ruleName	String
portString	SlotPort
vlanInst	uInt32
direction	uInt32

ACL.RecvCfgReq

Description

Received config request from the client (like fdb, identity manager, xnv, dot1ag, etc...) for the specified rule, of the given type (policy file or a dynamic rule), to get configured in the specified port and VLAN, relative to relName. This specified rule will be prepended or appended to the relative rule, as dictated by ruleAction. If the relative rule is not specified, the current rule will be prepended to the first or appended to the last configured rule on that port and or VLAN, depending upon the value of ruleAction. The ruleAction may have the action as prepend or append. If both the port and VLAN are not specified, then this rule will be applied as wildcard.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Receive request from client `%appl%` for configuring `%ruleType%` `%ruleName%` `%ruleAction%` `%relName%` in port `%portNum%` VLAN `%vlanIfInst%` direction `%direction%`

Message Parameters

Name	Type
appl	String
ruleType	String
ruleName	String
ruleAction	String
relName	String

Name	Type
portNum	SlotPort
vlanIfInst	uInt32
direction	uInt32

ACL.RecvUncfgReq

Description

Received an unconfig request from the client (which could be fdb, identity manager, xnv, dot1ag, etc...) for the specified rule, of the given type (policy file or dynamic rule), to remove from the specified port and/or VLAN.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Received unconfig request from application `%appl%` for `%ruleType%` `%ruleName%` in port `%portNumString%` VLAN `%vlanIfInst%` direction `%direction%`

Message Parameters

Name	Type
appl	String
ruleType	String
ruleName	String
portNumString	SlotPort
vlanIfInst	uInt32
direction	uInt32

ACL.RecvRspns

Description

Received a response from HAL for configuring/unconfiguring the specified rule, of the given type (policy file or dynamic rule), in the specified port and/or VLAN. The response

status could be a success or a failure. If it is a failure, the variable status will hold the error message, that was sent by HAL.

Remedy

If the response is for a configuration and the status is a failure, then it could be due to incompatible match conditions in the rule, or the hardware slice would have got exhausted. Verify them and correct the rule or the rule priority and try configuring again.

Severity

Debug-Verbose

Message Text

Receive a response from HAL for `%configType%` of `%ruleType%` `%ruleName%` in port `%portNumString%` VLAN `%vlanIfInst%`. Status - `%status%`

Message Parameters

Name	Type
configType	String
ruleType	String
ruleName	String
portNumString	SlotPort
vlanIfInst	uInt32
status	String

ACL.AddReqToPendQue

Description

Added the specified request of the given rule in the pending queue, which will be later passed to HAL for processing. The rules will be added to the pending queue, if there are any outstanding requests, for which ACL is waiting for a response from HAL.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Added `%configType%` request for rule `%ruleName%` for port `%portString%` VLAN `%vlanInst%` direction`%direction%`.

Message Parameters

Name	Type
configType	String
ruleName	String
portString	SlotPort
vlanInst	uInt32
direction	uInt32

ACL.RemReqFmPendQue

Description

Removed the specified request for the given rule from the pending queue. The rules may be either sent to HAL for processing, or removed when an unconfig of the same rule received before the current config message is actually processed. For the second case, the two requests (config and unconfig) will be cancelled out at the software itself, without being informed to HAL.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Removed `%configType%` request for rule `%ruleName%` for port `%portString%` VLAN `%vlanIfInst%` direction `%direction%`.

Message Parameters

Name	Type
configType	String
ruleName	String
portString	SlotPort

Name	Type
vlanIfInst	uInt32
direction	uInt8

ACL.SendClntRspns

Description

Send a response back to the client for the specified request. If the status is success, the response will be sent only if the client has explicitly requested a response. For failure case, the response will be sent by default. Some of the parameter values are listed below. msgType - ADD, DEL, CONFIG, UNCONFIG, etc... appl - fdb, identity manager, xnv, dot1ag, etc... ruleType - policy file or dynamic rule. direction - 0 or 1, where 0 - Ingress and 1 - Egress. status - SUCCESS or FAILURE. Failure could be due to hardware slice full or match criteria incompatibility.

Remedy

If the status shows a failure, the slice usage should be verified, and rules can be given priority in such a way that those with compatible match conditions get placed in the same slice. If failure is due to incompatible rules, check the platform support and correct the match conditions accordingly.

Severity

Debug-Data

Message Text

Send reply for `%msgType%` to client `%appl%` for `%ruleType%` `%ruleName%` port `%portNum%` VLAN `%vlanIfInst%` direction `%direction%`. Status - `%status%`

Message Parameters

Name	Type
msgType	String
appl	String
ruleType	String
ruleName	String
portNum	SlotPort
vlanIfInst	String

Name	Type
direction	uInt8
status	String

ACL.IngrMeterOutActLogEvent

Description

This event occurs because the log action is configured for a meter and the ingress traffic rate has exceeded the rate limit of the meter. The log action is one of the configurable out actions to be taken when the rate limit of the meter is exceeded with the "configure meter <meter-name> committed-rate ... out-actions" command

Remedy

The out-of-profile status may be cleared using the "clear access-list meter <meter-name> out-of-profile" command. A review of the Meter configuration may be warranted.

Severity

Notice

Message Text

Ingress Traffic on port `%portString%` exceeded the configured rate of meter `%MeterName%` resulting in change of out-of-profile status to true.

Message Parameters

Name	Type
MeterName	String
portString	SlotPort

ACL.IngrMeterOutActDsblPort

Description

This event occurs because the disable-port action is configured for a meter and the ingress traffic rate has exceeded the rate limit of the meter. The disable-port is one of the configurable out actions to be taken when the rate limit of the meter is exceeded with the "configure meter <meter-name> committed-rate ... out-actions" command

Remedy

The out-of-profile status may be cleared using the "clear access-list meter <meter-name> out-of-profile" command. A review of the Meter configuration may be warranted.

Severity

Notice

Message Text

Port `%portString%` disabled by Ingress meter `%MeterName%` because the traffic exceeded the configured rate.

Message Parameters

Name	Type
MeterName	String
portString	SlotPort

ACL.EgrMeterOutActLogEvent

Description

This event occurs because the log action is configured for a meter and the egress traffic rate has exceeded the rate limit of the meter. The log action is one of the configurable out actions to be taken when the rate limit of the meter is exceeded with the "configure meter <meter-name> committed-rate ... out-actions" command

Remedy

The out-of-profile status may be cleared using the "clear access-list meter <meter-name> out-of-profile" command. A review of the Meter configuration may be warranted.

Severity

Notice

Message Text

Egress Traffic on port `%portString%` exceeded the configured rate of meter `%MeterName%` resulting in change of out-of-profile status to true.

Message Parameters

Name	Type
MeterName	String
portString	SlotPort

ACL.EgrMeterOutActDsblPort

Description

This event occurs because the disable-port action is configured for a meter and the egress traffic rate has exceeded the rate limit of the meter. The disable-port is one of the configurable out actions to be taken when the rate limit of the meter is exceeded with the "configure meter <meter-name> committed-rate ... out-actions" command

Remedy

The out-of-profile status may be cleared using the "clear access-list meter <meter-name> out-of-profile" command. A review of the Meter configuration may be warranted.

Severity

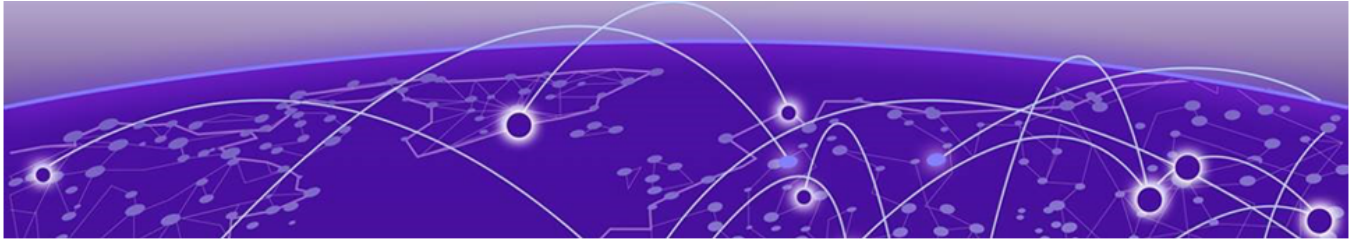
Notice

Message Text

Port `%portString%` disabled by Egress meter `%MeterName%` because the traffic exceeded the configured rate.

Message Parameters

Name	Type
MeterName	String
portString	SlotPort



ACL.CLEARFlow Messages

ACL.CLEARFlow.Critical on page 112
ACL.CLEARFlow.Error on page 113
ACL.CLEARFlow.Warning on page 113
ACL.CLEARFlow.Notice on page 114
ACL.CLEARFlow.Info on page 114
ACL.CLEARFlow.DebugSummary on page 115

ACL.CLEARFlow.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ACL.CLEARFlow.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ACL.CLEARFlow.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ACL.CLEARFlow.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ACL.CLEARFlow.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ACL.CLEARFlow.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

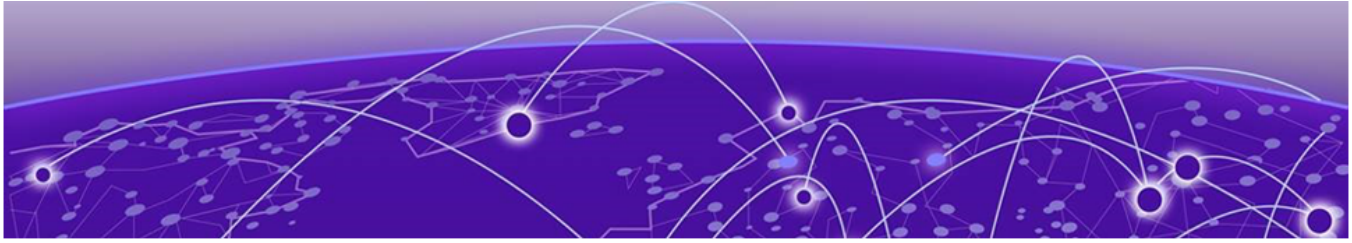
Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



ACL.Policy Messages

ACL.Policy.bind on page 116
ACL.Policy.unBind on page 117
ACL.Policy.refresh on page 117
ACL.Policy.Change on page 118
ACL.Policy.smartRef on page 119
ACL.Policy.hardRefresh on page 119
ACL.Policy.TotChanges on page 120
ACL.Policy.refClearFlowOnly on page 120
ACL.Policy.testDiff on page 121
ACL.Policy.AddDynAcl on page 121
ACL.Policy.IntAppConfFail on page 122
ACL.Policy.ChangePrtyFail on page 123
ACL.Policy.XmlConfFail on page 123
ACL.Policy.InvalidDomain on page 124
ACL.Policy.UnCondPmtCanCauseLoop on page 125
ACL.Policy.RfrshFail on page 125
ACL.Policy.SendCfgReq on page 126
ACL.Policy.RecvRfrshRspns on page 127

ACL.Policy.bind

Description

Policy policy_name has been bound to interface vlan or port. vlan = * and port = * indicate wild card

Remedy

Informational message. No action required.

Severity

Notice

Message Text

Policy:bind:`%policy_name%`:vlan:`%vlan%`:port:`%port%`:

Message Parameters

Name	Type
policy_name	String
vlan	String
port	String

ACL.Policy.unBind

Description

Policy policy_name has been unbound to interface vlan or port. vlan = * and port = * indicate wild card

Remedy

Informational Message. No action required.

Severity

Notice

Message Text

Policy:unBind:`%policy_name%`:vlan:`%vlan%`:port:`%port%`:

Message Parameters

Name	Type
policy_name	String
vlan	String
port	String

ACL.Policy.refresh

Description

Policy policy_name has been refreshed successfully.

Remedy

Informational message. No action required.

Severity

Notice

Message Text

Policy `%policy_name%` has been refreshed.

Message Parameters

Name	Type
policy_name	String

ACL.Policy.Change

Description

Description of rule that is to change as a result of a refresh. Changes include a new rule, modified rule, moved rule, moved and modified rule, also deleted rule.

Remedy

Informational message. No action required.

Severity

Notice

Message Text

Policy:refresh:`%policy_name%`: `%rule_action%` rule `%rule_name%`.

Message Parameters

Name	Type
policy_name	String
rule_action	String
rule_name	String

ACL.Policy.smartRef

Description

Policy is to be incrementally refreshed. A list of changes are sent to the hardware,where the changes are made incrementally implemented. Acl's that are not changed stay in place and are not affected.

Remedy

Informational message. No action required.

Severity

Notice

Message Text

Policy:smart refresh:`%policy_name%`.

Message Parameters

Name	Type
policy_name	String

ACL.Policy.hardRefresh

Description

Policy is NOT going to be incrementally refreshed using smart refresh. All acls previously defined in the policy are to be removed in the hard ware, and the new refreshed acl entries are to be installed. This could be as a result of the following: 1. Acl manager cannot determine the incremental changes. 2. A hard refresh has been forced via the cli.

Remedy

Informational message. No action required.

Severity

Notice

Message Text

Policy:hard refresh:`%policy_name%`.

Message Parameters

Name	Type
policy_name	String

ACL.Policy.TotChanges

Description

Total number of incremental changes.

Remedy

Informational message. No action required.

Severity

Notice

Message Text

Policy:smart refresh:`%policy_name%`. Total number of changes `%count%`.

Message Parameters

Name	Type
policy_name	String
count	uInt

ACL.Policy.refClearFlowOnly

Description

Policy has only clear flow changes.Only clear flow is refreshed.

Remedy

Informational message. No action required.

Severity

Notice

Message Text

Refresh clear flow only, found only chages to clearFlow rules for policy `%policy_name%`

Message Parameters

Name	Type
policy_name	String

ACL.Policy.testDiff

Description

Simulate failure to create change list so that QA can test list failure.

Remedy

Informational message. No action required.

Severity

Notice

Message Text

Policy:refresh clear flow only:`%policy_name%`.

Message Parameters

Name	Type
policy_name	String

ACL.Policy.AddDynAcl

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Configure dynamic Acl `%name%` rule index `%index%` above rule index `%relIndex%` for applicaition `%applname%`.

Message Parameters

Name	Type
name	String
index	uInt
relIndex	uInt
applname	String

ACL.Policy.IntAppConfFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Failed to install dynamic acl `%rule%` for internal applicaton `%appl%` on vlan `%vlan%` port `%port%` .Error: `%err%`.

Message Parameters

Name	Type
rule	String
appl	String
vlan	String
port	String
err	String

ACL.Policy.ChangePrtyFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Failed to re-install dynamic acl `%rule%` due to change in zone priiority. Rule belonged to applicaton `%appl%` on vlan `%vlan%` port `%port%` .Error: `%error%`.

Message Parameters

Name	Type
rule	String
appl	String
vlan	String
port	String
error	String

ACL.Policy.XmlConfFail

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Failed to install dynamic acl `%rule%` for applicaton `%appl%` on vlan `%vlan%` port `%port%` .Error: `%err%`.

Message Parameters

Name	Type
rule	String
appl	String
vlan	String
port	String
err	String

ACL.Policy.InvalidDomain

Description

The domain (vlan) does not exist on the switch.

Remedy

No remedy is available.

Severity

Warning

Message Text

Acl policy `%policy%` has an invalid domain name `%domain%` (vlan does not exist) in rule `%rule%`.

Message Parameters

Name	Type
policy	String
domain	String
rule	String

ACL.Policy.UnCondPmtCanCauseLoop

Description

A warning message to alert the user about a possible control packet loop condition when applying an ACL with unconditional PERMIT action on EAPS or STP blocked port. This warning is applicable only to Summit and BD8K platforms.

Remedy

Add an explicit match criteria such as 'ethernet-type' to avoid these rules matching EAPS and STP PDUs.

Severity

Notice

Message Text

ACL policy `%policy%`: An unconditional PERMIT action on an EAPS or STP blocked port can cause a loop.

Message Parameters

Name	Type
policy	String

ACL.Policy.RfrshFail

Description

Refresh of the specified policy in the given port failed, with the reason mentioned. The possible reasons could be 1. Hardware slice getting exhausted. 2. Incompatible match conditions in the specified rule.

Remedy

1. If the hardware is full, check if the total number of rules installed are within the supported limits. If not, reduce the number of rules. If they are already within the limit, try to rearrange the rules, so that rules with like match conditions are grouped together. Then try refreshing again. 2. Check the rule that has been mentioned in the error message and see if the conditions in that rule are compatible. Verify the concepts guide for the possible supported combinations and correct the rule accordingly. Then refresh the policy again.

Severity

Warning

Message Text

Refresh failed for policy `%policyName%` - `%reason%`

Message Parameters

Name	Type
policyName	String
reason	String

ACL.Policy.SendCfgReq

Description

Send a message to HAL to configure the given policy.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Send configuration request to HAL for policy `%polName%`

Message Parameters

Name	Type
polName	String

ACL.Policy.RecvRfrshRspns

Description

Received a response from HAL for refreshing the policy. The status could be a success or a failure. If failure, it could be due to incompatible match conditions in the rule, or the hardware slice got exhausted. The failure would be notified as an error message, through status.

Remedy

If the status is failure, check the reason, and rectify the match conditions, or rearrange the rules, so that alike rules are clubbed together, and try refreshing again.

Severity

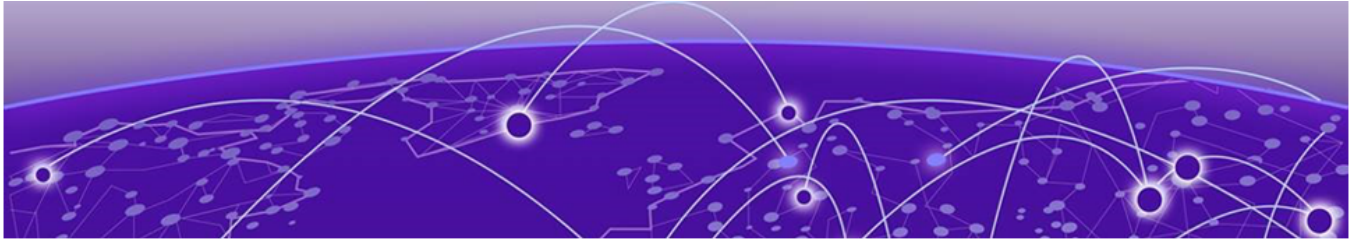
Debug-Verbose

Message Text

Received response from HAL for refreshing poicy `%policyName%`. Status = `%status%`

Message Parameters

Name	Type
policyName	String
status	String



AutoInstall Messages

AutoInstall.Error on page 128
AutoInstall.Warning on page 129
AutoInstall.Notice on page 129
AutoInstall.Info on page 130
AutoInstall.Debug on page 130

AutoInstall.Error

Description

Error message during automated NOS install operation.

Remedy

This is a rare internal condition needing technical assistence. Contact technical support.

Severity

Error

Message Text

```
%source%:%message%
```

Message Parameters

Name	Type
source	String
message	String

AutoInstall.Warning

Description

Warning message during automated NOS install operation.

Remedy

This is a rare internal condition needing technical assistence. Contact technical support.

Severity

Warning

Message Text

```
%source%:%message%
```

Message Parameters

Name	Type
source	String
message	String

AutoInstall.Notice

Description

No description is available.

Remedy

No remedy is available.

Severity

Notice

Message Text

```
%source%:%message%
```

Message Parameters

Name	Type
source	String
message	String

AutoInstall.Info

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%source%:%message%
```

Message Parameters

Name	Type
source	String
message	String

AutoInstall.Debug

Description

No description is available.

Remedy

No remedy is available.

Severity

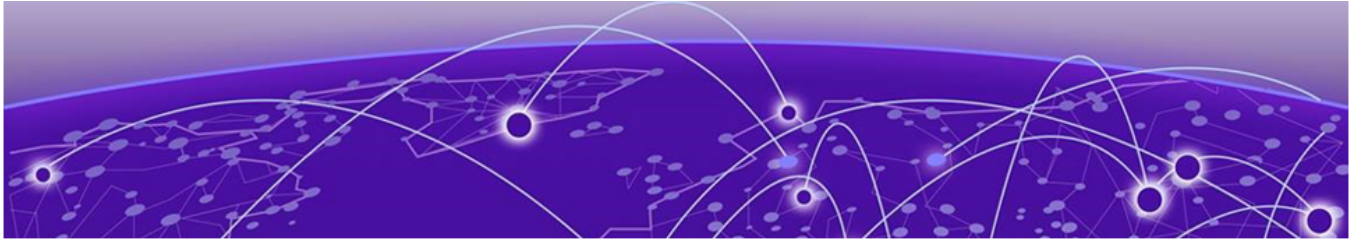
Debug-Summary

Message Text

```
%source%:%message%
```

Message Parameters

Name	Type
source	String
message	String



BFD Messages

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BFD.AllocSockFail on page 133
BFD.SetSockFail on page 133
BFD.BndSockFail on page 134
BFD.CreatThreadFail on page 135
BFD.RxPkt on page 135
BFD.RxPktDump on page 136
BFD.RxPktFail on page 137
BFD.RxPktInv on page 137
BFD.RxPktAuthFail on page 138
BFD.TxPkt on page 139
BFD.TxPktDump on page 139
BFD.TxPktFail on page 140
BFD.SessnNotFnd on page 141
BFD.CreatSessn on page 141
BFD.CreatSessnFail on page 142
BFD.DelSessn on page 142
BFD.FndEgrIfFail on page 143
BFD.CreatIfFail on page 144
BFD.FndIngrIfFail on page 144
BFD.StateTransTrace on page 145
BFD.RecvSrvrMsg on page 145
BFD.SendSrvrMsg on page 146
BFD.InitSrvrDone on page 147
BFD.InitSrvrFail on page 147
BFD.Error on page 148
BFD.DebugVerbose on page 148
BFD.SessnStateChg on page 149

BFD.InitDone

Description

This message gets logged when the BFD process is ready for operations

Remedy

This is an informational message and requires no action.

Severity

Info

Message Text

BFD process is READY

BFD.AllocSockFail

Description

The BFD session failed to open a communication channel with the system to communicate with the outside world.

Remedy

When this happens not packets can be send out, or received from the network. See if restarting the process solves this problem. Under normal circumstances this should not happen, however if it does, please escalate to engineering.

Severity

Error

Message Text

Failed to create socket error: `%errormsg%`

Message Parameters

Name	Type
errormsg	String

BFD.SetSockFail

Description

The BFD session failed to set option on a communication channel which communicate with the outside world

Remedy

When this happens packets can neither be sent out, nor received from the network. See if restarting the process solves this problem. Under normal circumstances this should not happen, however if it does, please contact Extreme Networks Technical support.

Severity

Error

Message Text

Failed to set socket `%option%` error: `%errormsg%`

Message Parameters

Name	Type
option	String
errormsg	String

BFD.BndSockFail

Description

The BFD session failed to bind a scoket which communicate with the outside world

Remedy

When this happens not packets can be send out, or received from the network. See if restarting the process solves this problem. Under normal circumstances this should not happen, however if it does, please escalate to engineering.

Severity

Error

Message Text

Failed to bind socket error: `%errormsg%`

Message Parameters

Name	Type
errormsg	String

BFD.CreatThreadFail

Description

Failed to create the specified thread.

Remedy

This should not happen in normal conditions. If this happens, contact Extreme Networks technical support.

Severity

Debug-Summary

Message Text

Failed to create thread `%threadName%` error code = `%error%`

Message Parameters

Name	Type
threadName	String
error	sInt

BFD.RxPkt

Description

This message is logged every time a BFD control packet is received from the L3 interface.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Received a BFD packet of size `%size%` bytes on VLAN `%tag%` slot `%slot%` port `%port%` VR `%vrId%` srcIP `%srcIP%` destIP `%destIP%`

Message Parameters

Name	Type
size	uInt16
tag	VLAN
vrId	uInt32
slot	ingressSlot
port	ingressPort
srcIP	dstSockAddr
destIP	dstSockAddr

BFD.RxPktDump

Description

This message is logged every time a BFD control packet is received from the L3 interface.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Received a BFD packet of size `%size%` bytes on VLAN `%tag%` slot `%slot%` port `%port%` VR `%vrId%` srcIP `%srcIP%` destIP `%destIP%`

Message Parameters

Name	Type
size	uInt16
tag	VLAN
vrId	uInt32
slot	ingressSlot
port	ingressPort
srcIP	dstSockAddr
destIP	dstSockAddr

Name	Type
pktBuf	Buf-ptr
bufLen	Buf-len

BFD.RxPktFail

Description

Failed to receive packet of the specified type on the socket.

Remedy

This should not happen in normal conditions. If this happens, contact Extreme Networks technical support.

Severity

Error

Message Text

Failed to receive packet of type `%pktType%` on an `%sockType%` socket and returned `%rc%`
Error: `%errmsg%`

Message Parameters

Name	Type
pktType	String
sockType	String
rc	sInt
errmsg	String

BFD.RxPktInv

Description

When a BFD PDU is received but does not pass the validation test this event gets logged.

Remedy

Determine which device is generating this BFD PDU, and investigate why it's sending out a malformed BFD PDU.

Severity

Warning

Message Text

Received BFD an invalid packet on VLAN `%vlan%` Error:`%errormsg%`

Message Parameters

Name	Type
vlan	VLAN
errormsg	String

BFD.RxPktAuthFail

Description

This message will be logged whenever authentication fails for a received Control Packet

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems in BFD.

Severity

Debug-Summary

Message Text

Authentication failed for the Control Packet received on VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

BFD.TxPkt

Description

This message is logged every time a BFD control packet is transmitted to the L3 interface.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Transmitted a BFD packet of size `%size%` bytes on VLAN `%vlan%` VR `%vrId%` destIP `%destIP%`

Message Parameters

Name	Type
size	uInt
vlan	VLAN
vrId	sInt
destIP	dstSockAddr

BFD.TxPktDump

Description

This message is logged every time a BFD control packet is transmitted to the L3 interface.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Transmitted a BFD packet of size `%size%` bytes on VLAN `%vlan%` VR `%vrId%` destIP `%destIP%`

Message Parameters

Name	Type
size	uInt
vlan	VLAN
vrId	sInt
destIP	dstSockAddr
pktBuf	Buf-ptr
bufLen	Buf-len

BFD.TxPktFail

Description

This message is logged every time a BFD control packet transmission fails.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Info

Message Text

Transmission failed for a BFD packet of size `%size%` bytes on VLAN `%vlan%` VR `%vrId%` destIP `%destIP%` errorMsg:`%errMsg%`

Message Parameters

Name	Type
size	uInt
vlan	VLAN
vrId	sInt

Name	Type
destIP	dstSockAddr
errMsg	String

BFD.SessnNotFnd

Description

This message will be logged whenever a BFD session is not found for the received Control packet.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems in BFD.

Severity

Debug-Summary

Message Text

Session not found for the Control Packet received on VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

BFD.CreatSessn

Description

This message will be logged whenever a BFD session is created.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems in BFD.

Severity

Debug-Summary

Message Text

Session created type:`%type%` family:`%family%` destIP:`%destIP%` vrId:`%vrId%` ttl:`%ttl%`

Message Parameters

Name	Type
type	sInt
family	String
destIP	String
vrId	sInt
ttl	sInt

BFD.CreatSessnFail

Description

This message is logged when the creation of BFD session fails.

Remedy

Check the destination Ipaddress is reachable from the system by using ping and traceroute diagnostic tools. If maxmimum limit is reached check the limts number given in the Exterme Networks document.

Severity

Error

Message Text

Failed to create BFD session error: `%errormsg%`

Message Parameters

Name	Type
errormsg	String

BFD.DelSessn

Description

This message will be logged whenever a BFD session is deleted.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems in BFD.

Severity

Debug-Verbose

Message Text

Session deleted sessionID:`%id%` type:`%type%` family:`%family%` destIP:`%destIP%`

Message Parameters

Name	Type
id	uInt32
type	sInt
family	String
destIP	String

BFD.FndEgrIfFail

Description

No description is available.

Remedy

Check the destination Ipaddress is reachable from the system by using ping and traceroute diagnostic tools.

Severity

Warning

Message Text

Failed to find egress interface for destination `%dstIP%` vrId `%vrid%`

Message Parameters

Name	Type
dstIP	String
vrid	VRID

BFD.CreatIfFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Create BFD interface failed on VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

BFD.FndIngrIfFail

Description

No description is available.

Remedy

Check BFD is enabled on the ingress interface also check any session is already running. This message will be disaplayed for the incoming BFD PDU.

Severity

Debug-Data

Message Text

Ingress Interface found fail for destination `%dstIP%` vrId `%vrid%`

Message Parameters

Name	Type
dstIP	String
vrid	VRID

BFD.StateTransTrace

Description

This message it for debugging problems related to BFD session's Finite State Machine. This is normal and does not indicate a problem

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve BFD session's FSM

Severity

Debug-Verbose

Message Text

FSM Current State:[`%currstate%`] Event:[`%event%`] NextState:[`%nextstate%`]

Message Parameters

Name	Type
currstate	String
event	String
nextstate	String

BFD.RecvSrvrMsg

Description

This message it for debugging problems related to BFD server message to the clients. This is normal and does not indicate a problem

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve BFD server message toclients.

Severity

Debug-Verbose

Message Text

Received message from peer:`%peerId%` clientId:`%clientId%` msgType:`%msgtype%`

Message Parameters

Name	Type
peerId	uInt32
clientId	sInt
msgtype	String

BFD.SendSrvrMsg

Description

This message it for debugging problems related to BFD server message to the clients. This is normal and does not indicate a problem

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve BFD server message toclients.

Severity

Debug-Verbose

Message Text

Sending `%msgtype%` to Peer:`%peerID%` client:`%clientID%` rc:`%retcode%`
Params:`%param1%`, `%param2%`, `%param3%`

Message Parameters

Name	Type
peerID	uInt32
clientID	uInt32
msgtype	String
retcode	sInt
param1	uInt
param2	uInt
param3	uInt

BFD.InitSrvrDone

Description

This message gets logged when the BFD server is ready for operations

Remedy

This is an informational message and requires no action

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	String

BFD.InitSrvrFail

Description

Failed to start the BFD server

Remedy

Restart BFD process

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	String

BFD.Error

Description

An error occured during BFD operations.

Remedy

This should not happen in normal conditions. If this happens, contact Extreme Networks technical support.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BFD.DebugVerbose

Description

This message is for debugging problems. This is normal and does not indicate a problem

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems in BFD

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

BFD.SessnStateChg

Description

The BFD session's state changed to the new state mentioned above. The various possible states for a BFD session are: - UP - DOWN - INIT_DOWN

Remedy

This message is for informational purpose only.

Severity

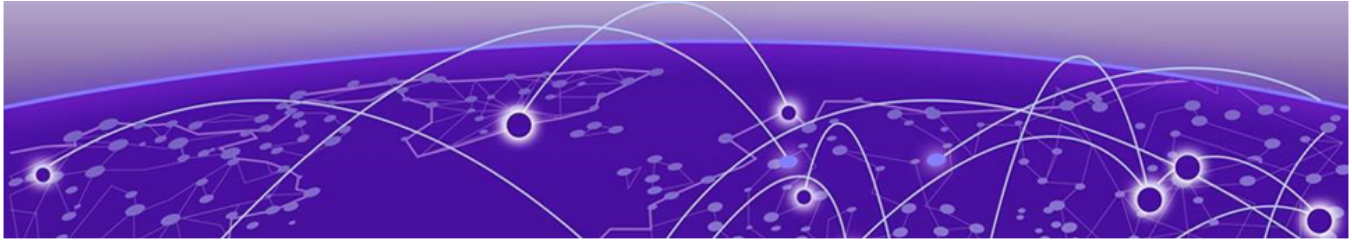
Info

Message Text

BFD Session with srcIP=`%srcIP%` dstIP=`%dstIP%` in VR=`%vrName%` state is now `%state%`

Message Parameters

Name	Type
srcIP	srcIPaddress
dstIP	dstIPaddress
vrName	String
state	String



BFD.Client Messages

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BFD.Client.SessnCreatFail on page 157
BFD.Client.SessnCreatFailMax on page 157
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BFD.Client.SrvrCnctUp

Description

This event occurs whenever BFD client to server connection has been established after process restart. clntName BFD client name vrName VR name

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%clntName%:%vrName%`: The connection to BFD server has been established

Message Parameters

Name	Type
clntName	String
vrName	String

BFD.Client.SrvrCnctDown

Description

This event occurs whenever BFD client to server connection has been terminated due to process restart. clntName BFD client name vrName VR name

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%clntName%:%vrName%`: The connection to BFD server has been terminated

Message Parameters

Name	Type
clntName	String
vrName	String

BFD.Client.ClntReg

Description

This event occurs whenever client successfully registered to BFD server after reboot or process restart. clntName BFD client name vrName VR name clntId BFD client ID

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%clntName%:%vrName%`: Client registered to BFD server with client ID `%clntId%`

Message Parameters

Name	Type
clntName	String
vrName	String
clntId	uInt32

BFD.Client.ClntRegFail

Description

This event occurs whenever client registration to BFD server failed.
clntName BFD client name vrName VR name clntId BFD client ID
errCode Error code returned by BFD client callback Possible error codes:
-5 BFD_CLNTSVR_RESOURCE_UNAVAIL -106 BFD_CLNTSVR_CONNECTION_ERROR
-101 BFD_CLNTSVR_CLIENT_ALREADY_REGISTERED -107
BFD_CLNTSVR_COMMUNICATION_ERROR

Remedy

This is a rare internal condition, restart process/reboot system may be required. If condition is not resolved by reboot system, please contact technical support with the following information: show tech, debug bfd show, debug bfd show client, debug bfd show session.

Severity

Error

Message Text

`%clntName%:%vrName%`: Client registration to BFD server for client ID `%clntId%` failed with error code `%errCode%`

Message Parameters

Name	Type
clntName	String
vrName	String
clntId	uInt32
errCode	sInt

BFD.Client.ClntUnreg

Description

This event occurs whenever client successfully unregistered to BFD server before reboot or process restart. clntName BFD client name vrName VR name clntId BFD client ID

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%clntName%:%vrName%`: Client unregistered to BFD server for client ID `%clntId%`

Message Parameters

Name	Type
clntName	String
vrName	String
clntId	uInt32

BFD.Client.ClntUnregFail

Description

This event occurs whenever client unregistration to BFD server failed. clntName BFD client name vrName VR name clntId BFD client ID errCode Error code returned by BFD client callback Possible error codes: -5 BFD_CLNTSVR_RESOURCE_UNAVAIL -102 BFD_CLNTSVR_CLIENTID_DOES_NOT_EXIST -106 BFD_CLNTSVR_CONNECTION_ERROR -107 BFD_CLNTSVR_COMMUNICATION_ERROR -108 BFD_CLNTSVR_NUM_SESSIONS_NOT_ZERO

Remedy

This is a rare internal condition, restart process/reboot system may be required. If condition is not resolved by reboot system, please contact technical support with the following information: show tech, debug bfd show, debug bfd show client, debug bfd show session.

Severity

Error

Message Text

`%clntName%:%vrName%`: Client unregistration to BFD server for client ID `%clntId%` failed with error code `%errCode%`

Message Parameters

Name	Type
clntName	String
vrName	String
clntId	uInt32
errCode	sInt

BFD.Client.SessnCreatReq

Description

This event occurs whenever BFD session create request is sent to BFD server for a specific dest IP. clntName BFD client name vrName VR name dstIPaddr Dest IP address ifName Interface name

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%clntName%:%vrName%`: BFD session create request sent for dest IP `%dstIPaddr%` on interface `%ifName%`

Message Parameters

Name	Type
clntName	String
vrName	String
dstIPaddr	String
ifName	VLAN

BFD.Client.SessnCreatReqFail

Description

This event occurs whenever BFD session create request failed for a specific dest IP. clntName BFD client name vrName VR name dstIPaddr Dest IP address ifName Interface name errCode Error code returned by BFD client API Possible error codes: -5 BFD_CLNTSVR_RESOURCE_UNAVAIL -102 BFD_CLNTSVR_CLIENTID_DOES_NOT_EXIST -106 BFD_CLNTSVR_CONNECTION_ERROR -107 BFD_CLNTSVR_COMMUNICATION_ERROR

Remedy

This is a rare internal condition, restart process/reboot system may be required. If condition is not resolved by reboot system, please contact technical support with the following information: show tech, debug bfd show, debug bfd show client, debug bfd show session.

Severity

Error

Message Text

`%clntName%:%vrName%`: BFD session create request for dest IP `%dstIPaddr%` on interface `%ifName%` failed with error code `%errCode%`

Message Parameters

Name	Type
clntName	String
vrName	String
dstIPaddr	String
ifName	VLAN
errCode	sInt

BFD.Client.SessnCreatOK

Description

This event occurs whenever BFD session is successfully created for a specific dest IP. clntName BFD client name vrName VR name sessnhndl BFD session handle dstIPaddr Dest IP address ifName Interface name

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%clntName%:%vrName%`: BFD session `%sessnHndl%` successfully created for dest IP `%dstIPaddr%` on interface `%ifName%`

Message Parameters

Name	Type
clntName	String
vrName	String
sessnHndl	uInt32
dstIPaddr	String
ifName	VLAN

BFD.Client.SessnCreatFail

Description

This event occurs whenever receive callback from BFD server indicating that BFD session create failed for a specific dest IP. clntName BFD client name vrName VR name dstIPaddr Dest IP address ifName Interface name errCode Error code returned by BFD client callback Possible error codes: -5 BFD_CLNTSVR_RESOURCE_UNAVAIL -102 BFD_CLNTSVR_CLIENTID_DOES_NOT_EXIST -106 BFD_CLNTSVR_CONNECTION_ERROR -107 BFD_CLNTSVR_COMMUNICATION_ERROR

Remedy

This is a rare internal condition, restart process/reboot system may be required. If condition is not resolved by reboot system, please contact technical support with the following information: show tech, debug bfd show, debug bfd show client, debug bfd show session.

Severity

Error

Message Text

`%clntName%`:`%vrName%`: BFD session create for dest IP `%dstIPaddr%` on interface `%ifName%` failed with error code `%errCode%`

Message Parameters

Name	Type
clntName	String
vrName	String
dstIPaddr	String
ifName	VLAN
errCode	sInt

BFD.Client.SessnCreatFailMax

Description

This event occurs whenever receive callback from BFD server indicating that BFD session create request failed with error 'BFD_CLNTSVR_SESSION_EXCEEDS_SYSTEM_LIMIT'. clntName BFD client name vrName VR name dstIPaddr Dest IP address ifName Interface name

Remedy

Detailed BFD session information can be obtained with commands 'show bfd session' and 'debug bfd show session'. The following steps should be taken to resolve the condition caused by attempting to exceed system limit: 1. Unconfig client BFD for this interface. For example, use command 'config ospf vlan VlanName bfd off' for BFD client OSPF. 2. Ensure the total BFD session number won't exceed system limit with the intended configuration. Remove some BFD sessions to make the resource available. 3. Reconfig client BFD for this interface. For example, use command 'config ospf vlan VlanName bfd on' for BFD client OSPF.

Severity

Error

Message Text

`%clntName%:%vrName%`: BFD session create for `%dstIPaddr%` on interface `%ifName%` failed because of 'Max number of sessions limit reached'

Message Parameters

Name	Type
clntName	String
vrName	String
dstIPaddr	String
ifName	VLAN

BFD.Client.SessnDelReq

Description

This event occurs whenever BFD session delete request is sent to BFD server for a specific dest IP. clntName BFD client name vrName VR name sessnhndl BFD session handle dstIPaddr Dest IP address

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%clntName%:%vrName%`: BFD session `%sessnHndl%` delete request sent for dest IP `%dstIPaddr%`

Message Parameters

Name	Type
clntName	String
vrName	String
sessnHndl	uInt32
dstIPaddr	String

BFD.Client.SessnDelReqFail

Description

This event occurs whenever BFD session delete request failed for a specific dest IP. clntName BFD client name vrName VR name sessnhndl BFD session handle dstIPaddr Dest IP address errCode Error code returned by BFD client API Possible error codes: -5 BFD_CLNTSVR_RESOURCE_UNAVAIL -103 BFD_CLNTSVR_SESSION_DOES_NOT_EXIST -107 BFD_CLNTSVR_COMMUNICATION_ERROR

Remedy

This is a rare internal condition, restart process/reboot system may be required. If condition is not resolved by reboot system, please contact technical support with the following information: show tech, debug bfd show, debug bfd show client, debug bfd show session.

Severity

Error

Message Text

`%clntName%:%vrName%`: BFD session delete request `%sessnHndl%` for dest IP `%dstIPaddr%` failed with error code `%errCode%`

Message Parameters

Name	Type
clntName	String
vrName	String

Name	Type
sessnHndl	uInt32
dstIPaddr	String
errCode	sInt

BFD.Client.SessnDelOK

Description

This event occurs whenever a BFD session is successfully deleted as requested. clntName BFD client name vrName VR name sessnhndl BFD session handle

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%clntName%`:`%vrName%`: BFD session `%sessnHndl%` successfully deleted

Message Parameters

Name	Type
clntName	String
vrName	String
sessnHndl	uInt32

BFD.Client.SessnDelFail

Description

This event occurs whenever receive callback from BFD server indicating that BFD session delete failed. clntName BFD client name vrName VR name sessnhndl BFD session handle errCode Error code returned by BFD client callback Possible error codes: -5 BFD_CLNTSVR_RESOURCE_UNAVAIL -103 BFD_CLNTSVR_SESSION_DOES_NOT_EXIST -107 BFD_CLNTSVR_COMMUNICATION_ERROR

Remedy

This is a rare internal condition, restart process/reboot system may be required. If condition is not resolved by reboot system, please contact technical support with the following information: show tech, debug bfd show, debug bfd show client, debug bfd show session.

Severity

Error

Message Text

`%clntName%:%vrName%`: BFD session `%sessnHndl%` delete failed with error code `%errCode%`

Message Parameters

Name	Type
clntName	String
vrName	String
sessnHndl	uInt32
errCode	sInt

BFD.Client.SessnUpdt

Description

This event occurs whenever BFD session state notification is received. clntName BFD client name vrName VR name sessnhndl BFD session handle state BFD session state (UP, DOWN, ADMINDOWN)

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

`%clntName%:%vrName%`: BFD session `%sessnHndl%` state is now `%state%`

Message Parameters

Name	Type
clntName	String
vrName	String
sessnHndl	uInt32
state	String

BFD.Client.SigPathUp

Description

This event occurs whenever BFD session is changed to 'up' state, client is notified that the corresponding dest IP should be moved to 'up' state. clntName BFD client name vrName VR name dstIPaddr Dest IP address

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

`%clntName%`:`%vrName%`: Signal the path to dest IP `%dstIPaddr%` is 'up' according to BFD session state

Message Parameters

Name	Type
clntName	String
vrName	String
dstIPaddr	String

BFD.Client.SigPathDown

Description

This event occurs whenever BFD session is changed to 'down' state, client is notified that the corresponding dest IP should be moved to 'down' state. clntName BFD client name vrName VR name dstIPaddr Dest IP address

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

`%clntName%:%vrName%`: Signal the path to dest IP `%dstIPaddr%` is 'down' according to BFD session state

Message Parameters

Name	Type
clntName	String
vrName	String
dstIPaddr	String

BFD.Client.ParmNull

Description

This event occurs whenever pass NULL parameter to a function. clntName BFD client name vrName VR name parmName Parameter name

Remedy

This is a rare internal condition, restart process/reboot system may be required. If condition is not resolved by reboot system, please contact technical support with the following information: show tech.

Severity

Error

Message Text

`%clntName%:%vrName%`: Parameter `%parmName%` is NULL

Message Parameters

Name	Type
clntName	String
vrName	String
parmName	String

BFD.Client.ClbkInitFail

Description

This event occurs whenever BFD client callback initialization failed. clntName BFD client name vrName VR name

Remedy

This is a rare internal condition, restart process/reboot system may be required. If condition is not resolved by reboot system, please contact technical support with the following information: show tech, debug bfd show, debug bfd show client, debug bfd show session.

Severity

Error

Message Text

`%clntName%:%vrName%`: BFD client callback initialization failed

Message Parameters

Name	Type
clntName	String
vrName	String

BFD.Client.TreeInsFail

Description

This event occurs whenever insert to p2Btree failed. clntName BFD client name vrName VR name tree Name of the p2Btree errCode Error code returned by p2Btree insert operation

Remedy

This is a rare internal condition, restart process/reboot system may be required. If condition is not resolved by reboot system, please contact technical support with the following information: show tech.

Severity

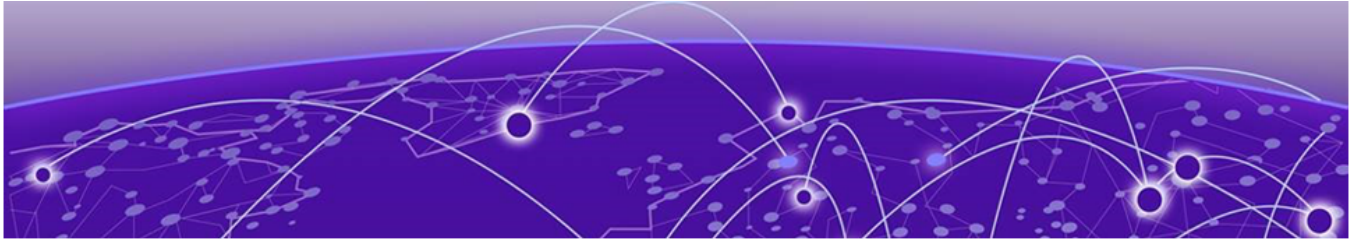
Error

Message Text

`%clntName%:%vrName%: %tree%` insertion failed with error code `%errCode%`

Message Parameters

Name	Type
clntName	String
vrName	String
tree	String
errCode	sInt



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BFD.HAL.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or

completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BFD.HAL.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BFD.HAL.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BFD.HAL.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on BFD configuration. Also, check the scalability limit and compare this with the current configuration. "show bfd session" to find number of BFD sessions currently exist in the system. Contact technical support with the following information: - output of "show tech" - output of "debug hal show platform bfd all"

Severity

Error

Message Text

Passing parmeters `%parmName%` is NULL.

Message Parameters

Name	Type
parmName	String

BFD.HAL.RslvNextHop

Description

This event occurs when mac address for the given next hop's ipaddress is resolved by ARP module.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

ARP Resolved for nexthop ip `%nextHopAddr%` mac `%macAddr%` vrId `%vrId%`

Message Parameters

Name	Type
macAddr	MAC
nextHopAddr	String
vrId	uInt

BFD.HAL.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect operation of the BFD feature.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory. "show bfd session" to find number of BFD sessions currently exist in the system. Contact technical support with the following information: - output of "show tech" - output of "debug hal show platform bfd all”

Severity

Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure of size `%size%`.

Message Parameters

Name	Type
obj	String
size	uInt

BFD.HAL.SendSessCreatReq

Description

This event occurs whenever BFD session create request is sent to HAL for a specific dest IP. vrId VR name dstIPaddr Dest IP address srcIPaddr Src IP address sessionId Session ID

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BFD session create request sent for src IP `%srcIPaddr%` dest IP `%dstIPaddr%` vrId `%vrId%`

Message Parameters

Name	Type
srcIPaddr	String
dstIPaddr	String
vrId	uInt
sessionId	uInt

BFD.HAL.RecvSessCreatFail

Description

This event occurs whenever BFD session create request failed for a specific dest IP.

Remedy

Session creation could fail in the Hardware if the MAC address of next hop is not resolved. Check show iparp if ipv4 bfd session or show neighbor-discovery for ipv6 session. Please contact tech support if sessions is not able create after multiple attempts. show tech, debug bfd show, debug bfd show client, debug bfd show session, debug hal show platform bfd all, debug bfd show next-hop.

Severity

Warning

Message Text

BFD session create request sent to hardware is failed for session `%sessionId%`

Message Parameters

Name	Type
sessionId	uInt

BFD.HAL.SendSessDelReq

Description

This message will be logged whenever a BFD session is deleted.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems in BFD.

Severity

Debug-Summary

Message Text

Session deleted sessionID:`%sessnId%` destIP:`%destIP%` srcIP:`%srcIP%`

Message Parameters

Name	Type
sessnId	uInt
srcIP	String
destIP	String

BFD.HAL.SendSessUpdtReq

Description

This event occurs whenever BFD session update request is sent to HAL for a specific dest IP. vrId Vr Id dstIPaddr Dest IP address srcIPaddr Src IP address sessionId SessionID

Remedy

No action required - Notification message only.

Severity

Warning

Message Text

BFD session update request sent for src IP `%srcIPaddr%` dest IP `%dstIPaddr%` sessionID `%sessionID%` vrId `%vrId%`

Message Parameters

Name	Type
srcIPaddr	String
dstIPaddr	String
sessionID	uInt
vrId	uInt

BFD.HAL.SendLpbkPortInfo

Description

BFD process sending the configured loopback port information to HAL

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Sending Primary LoopBack port `%primaryLbkPort%` and secondary LoopBack port `%secondaryLbkPort%` to HAL

Message Parameters

Name	Type
primaryLbkPort	SlotPort
secondaryLbkPort	SlotPort

BFD.HAL.OperStateChgOcc

Description

BFD hardware assist operational state has been changed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BFD hardware assist state change from `%oldstate%` to `%newstate%`

Message Parameters

Name	Type
oldstate	String
newstate	String

BFD.HAL.RecvStateChgNtfy

Description

This event occurs when local session received the session state changes notification from the remote session.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received state change for `%sessionId%` from `%remoteId%` local state `%localstate%` remotestate `%remotestate%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt
localstate	String
remotestate	String

BFD.HAL.RecvRmtDiagNtfy

Description

This event occurs when local session received the Diagnostic code changes from the remote session.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Recevieved Remote diag for session `%sessionId%` from remote `%remoteId%` diag code `%diagcode%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt
diagcode	uInt

BFD.HAL.RecvTimeChgNtfy

Description

This event occurs when local session received the session state timer changes from the remote session.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Recevied `%timeChg%` event for session `%sessionId%` remote `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt
timeChg	String

BFD.HAL.RecvSessUpNtfy

Description

This event occurs when local session received the session state becomes up from the remote session.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Recevied remote session up event for session `%sessionId%` remote `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt

BFD.HAL.RecvAuthChgNtfy

Description

This event occurs when local session received the authentication changes from the remote session.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received Authentication change for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt

BFD.HAL.RecvDscrmChgNtfy

Description

This event occurs when local session received the remote discriminator changes from the remote session.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Recevied discriminator change for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt

BFD.HAL.RecvParmChgNtfy

Description

This event occurs when local session received the session parameter changes from the remote session

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received Parameter change for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt

BFD.HAL.RecvSessErrNtfy

Description

This event occurs when session received error notification from the hardware for the specified local and remote session Id.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Receieved session error event for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt

BFD.HAL.RecvFlagChgNtfy

Description

This event occurs when local session received the session flag change from the remote session.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

Received endpoint flag changes for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt

BFD.HAL.RecvEventChgNtfy

Description

Received event change notification from HAL for the specified sessionId.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received event change notification for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt

BFD.HAL.RecvSessStatsReply

Description

This event occurs whenever BFD receives session stats response from HAL for a specific sessionID.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Receive sessions statistics reply for the request sent for the sessionId `%sessionId%` (0 means all sessions)

Message Parameters

Name	Type
sessionId	uInt

BFD.HAL.RecvSessCreatOK

Description

This event occurs whenever BFD session is successfully created in hardware for a specific sessionId.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BFD session successfully created in the hardware for `%sessionId%`

Message Parameters

Name	Type
sessionId	uInt

BFD.HAL.SendGetStatsReq

Description

This event occurs whenever BFD session get stats request is sent to HAL for a session ID.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Send get statistics request to HAL for sessionId `%sessionId%` (session Id 0 means all sessions)

Message Parameters

Name	Type
sessionId	uInt

BFD.HAL.RecvSessUpdtOK

Description

This event occurs whenever BFD session is successfully updated in hardware for a specific sessionId.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BFD session successfully updated in the hardware for `%sessionId%`

Message Parameters

Name	Type
sessionId	uInt

BFD.HAL.RecvSessUpdtFail

Description

This event occurs whenever BFD session update request failed for a specific dest IP.

Remedy

Check show iparp if ipv4 bfd session or show neighbor-discovery for ipv6 session. Please contact tech support if sessions is not able update after multiple attempts. show tech, debug bfd show, debug bfd show client, debug bfd show session, debug hal show platform bfd all, debug bfd show next-hop.

Severity

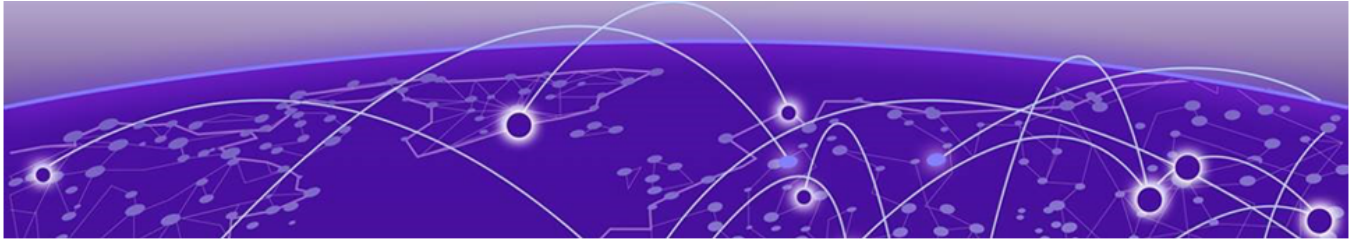
Warning

Message Text

BFD session update request sent to hardware is failed for session `%sessionId%`

Message Parameters

Name	Type
sessionId	uInt



BGP Messages

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BGP.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

BGP.APIFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Notice

Message Text

Call to `%api%` failed.

Message Parameters

Name	Type
api	String

BGP.InitFailRsrcNotStrt

Description

No description is available.

Remedy

No remedy is available.

Severity

Critical

Message Text

BGP initialization failed because the `%resource%` failed to start.

Message Parameters

Name	Type
resource	String

BGP.APIFailIgn

Description

The BGP process has received an unexpected input from another process. The input is ignored by BGP, but is logged for debug purposes.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

BGP.InterThreadMsgError

Description

A problem has been detected that is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.InterThreadMsgCritical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.TermProc

Description

A serious problem has been detected which compromised the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart will be required for continued operation.

Severity

Error

Message Text

BGP process terminating: [VR `%vrid%`] `%msg%`

Message Parameters

Name	Type
vrid	VRID
msg	String

BGP.MibStubFlowTrc

Description

BGP MIB stub debug flow tracing.

Remedy

No action required - Inmsgional message only.

Severity

Debug-Verbose

Message Text

`%msg%`

Message Parameters

Name	Type
msg	String

BGP.ProdFlowTrc

Description

BGP Protocol debug flow tracing.

Remedy

No action required - Inmsgional message only.

Severity

Debug-Verbose

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	String

BGP.SckStubFlowTrc

Description

BGP Sock stub debug flow tracing.

Remedy

No action required - Inmsgional message only.

Severity

Debug-Verbose

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	String

BGP.Enabled

Description

BGP enabled for specified VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

[VR `%vrid%`] BGP enabled

Message Parameters

Name	Type
vrid	VRID

BGP.Disabled

Description

BGP disabled for specified VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

[VR %vrid%] BGP disabled

Message Parameters

Name	Type
vrid	VRID

BGP.CfgCnctRetry

Description

When BGP protocol is enabled on more than one Virtual Routers, it is possible that the new TCP connection request for BGP neighbor establishment could fail. There is one BGP process per Virtual router and each process creates one TCP listener socket for BGP port. Linux TCP implementation hashes the new connection to any of the listener socket, if there are more than one socket for the same TCP port. If the connection request is received on a BGP process that do not handle the Virtual Router corresponding to the new connection, then that would be dropped. BGP establishment time could become high with default connection retry timeout of 120 seconds. Reducing the connection retry timer to a lower value would reduce the peer establishment delay.

Remedy

The event will occur when BGP protocol is added to a new Virtual Router. Increase the connection retry timeout value using the **configure bgp neighbor <neighbor> connect-retry <value>** command.

Severity

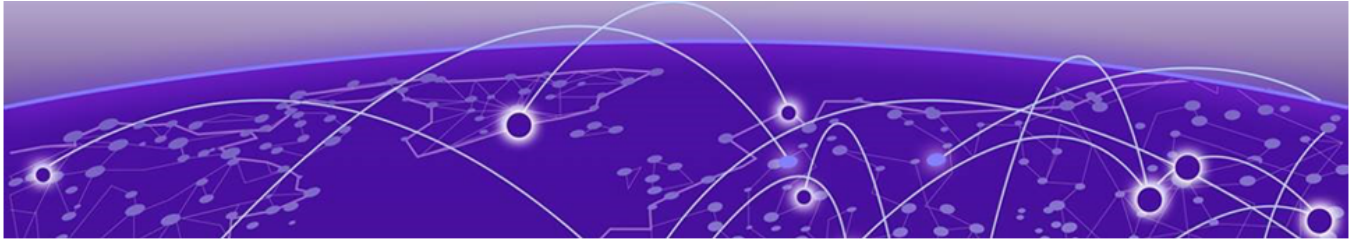
Notice

Message Text

[VR %vrid%] A connect retry value of 30 seconds is recommended for BGP neighbors, when BGP neighbors are configured on more than one Virtual Router. The default of 120 seconds may result in longer than acceptable peer establishment times.

Message Parameters

Name	Type
vrid	VRID



BGP.Autopeering Messages

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BGP.Autopeering.EVPNMacMove on page 197
BGP.Autopeering.EVPNStickyMac on page 197

BGP.Autopeering.JoinPortExcdElgbVLAN

Description

Used when an auto-peering port is detected but there are no available auto-peering VLANs to assign it to

Remedy

Increase the number of auto-peering VLANS by deleting auto-peering and recreating it with a larger vlan range

Severity

Warning

Message Text

Port `%port%` unable to join the fabric because the number of available auto-peering VLANs has been exceeded

Message Parameters

Name	Type
port	SlotPort

BGP.Autopeering.NbrDtect

Description

An auto-peering neighbor has been detected by LLDP and reported to the BGP

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Auto-peering neighbor has been detected on port `%port%`

Message Parameters

Name	Type
port	SlotPort

BGP.Autopeering.NbrCreat

Description

An auto-peering neighbor has been detected on the port and created in the auto-peering network

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Auto-peering BGP neighbor `%address%` created on VLAN `%vlan%` port `%port%` with routerid `%routerId%` ASnum `%asNum%`

Message Parameters

Name	Type
port	SlotPort
vlan	VLAN
asNum	uInt32
routerId	IPv4
address	IPaddress

BGP.Autopeering.NbrDtectDupASNum

Description

BGP auto-peering neighbor has the same AS num

Remedy

Auto-peering AS num needs to be different, IBGP not allowed as an auto-peer

Severity

Warning

Message Text

Auto-peering neighbor detected on port `%port%` with duplicate AS number `%asNum%`

Message Parameters

Name	Type
port	SlotPort
asNum	uInt32

BGP.Autopeering.NbrLost

Description

An auto-peering BGP neighbor has been lost

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Auto-peering BGP neighbor lost on port `%port%` VLAN `%vlan%` BGP AS `%asNum%` RouterId `%routerId%` Address `%llocal%`

Message Parameters

Name	Type
port	SlotPort
vlan	VLAN
asNum	uInt32
routerId	IPv4
llocal	IPaddress

BGP.Autopeering.DupRtrIdDtect

Description

Duplicate router id detected from BGP neighbor

Remedy

Change routerid to be different

Severity

Warning

Message Text

Auto-peering BGP duplicate Router Id `%routerId%` detected on port `%port%`

Message Parameters

Name	Type
port	SlotPort
routerId	IPv4

BGP.Autopeering.EVPNMacMove

Description

RFC1532 specifys that if a MAC moves between a local and remote device N times within an M second interval, a message should alert the user. By default the interval is 180 seconds and the number of moves is 5.

Remedy

This error is cleared when only one route exists for this MAC.

Severity

Warning

Message Text

EVPN Entity `%EVPNEntity%` has multiple moves of MAC `%srcMac%` within a single monitoring interval.

Message Parameters

Name	Type
EVPNEntity	uInt32
srcMac	srcMAC

BGP.Autopeering.EVPNStickyMac

Description

There are scenarios in which it is desired to configure some MAC addresses as static so that they are not subjected to MAC moves. In such scenarios, these MAC addresses are advertised with a MAC Mobility extended community where the static flag is set to 1 and the sequence number is set to zero. If a PE receives such advertisements and later learns the same MAC address(es) via local learning, then the PE MUST alert the operator.

Remedy

Remove static MAC if necessary.

Severity

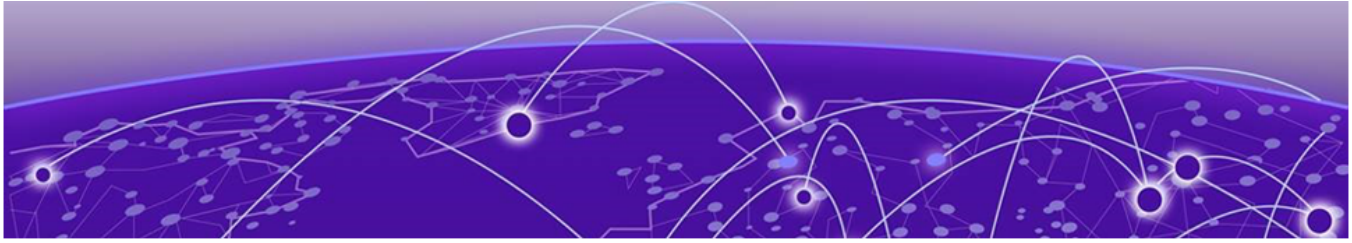
Warning

Message Text

EVPN Entity `%EVPNEntity%` has detected a sticky mac `%srcMAC%`.

Message Parameters

Name	Type
EVPNEntity	uInt32
srcMAC	srcMAC



BGP.DecisnCoord Messages

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BGP.DecisnCoord.RtFlapDampPnltyNotUpdt on page 201
BGP.DecisnCoord.RtFlapDampPnltyNotClr on page 202
BGP.DecisnCoord.SessFSMInRsltInvAct on page 202
BGP.DecisnCoord.RecvSameRtFmAFM on page 203
BGP.DecisnCoord.AllocMemFail on page 204
BGP.DecisnCoord.RtRfrshAFISAFINotSuprt on page 204
BGP.DecisnCoord.PeerAdvertRtAFNotSuprt on page 205
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BGP.DecisnCoord.BGPSessRstrt on page 211
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BGP.DecisnCoord.RtNotElgblCauseCircDep on page 213
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BGP.DecisnCoord.RtHasFlapped on page 221
BGP.DecisnCoord.MemAllFailGetNrliPre on page 222
BGP.DecisnCoord.NumEstBgpSessOne on page 222

BGP.DecisnCoord.IntTmrCauBgpDelAdvStop on page 223
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BGP.DecisnCoord.AllocMemInitSubComp

Description

A memory allocation failed while initializing the Decision Coordinator sub-component of DC-BGP. DC-BGP RIB Manager will fail to initialize.

Remedy

This is typically observed in scaled scenarios close to operating limits. try to reduce number of peers or routes stored. If functionality degrades, try disabling and enabling bgp or restarting the process. If problem persists, contact technical support with the following information: "show tech" and "upload debug". System restart may be required for continued operation.

Severity

Error

Message Text

[VR `%p1%`] Failed to allocate memory while initializing BGP's Decision Coordinator sub-component

Message Parameters

Name	Type
p1	uInt32

BGP.DecisnCoord.AllocMemProcNewRt

Description

A memory allocation failure occurred whilst DC-BGP was processing a new BGP route. Information about the new route has been lost. The session to the BGP peer will be reset.

Remedy

This is typically observed in scaled scenarios close to operating limits. try to reduce number of peers or routes stored. If functionality degrades, try disabling and enabling bgp or restarting the process. If problem persists, contact technical support with the following information: "show tech" and "upload debug". System restart may be required for continued operation.

Severity

Debug-Verbose

Message Text

[VR `%p1%`] Failed to allocate memory when processing a new BGP route.

Message Parameters

Name	Type
p1	uInt32

BGP.DecisnCoord.RtFlapDampPnltyNotUpdt

Description

The route flap damping penalty of a BGP route could not be updated because the configured damping parameters have been deleted. The route will not be damped.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR `%p1%`] Flap damping penalty of the BGP route `%p2%`/`%p3%` could not be updated \nbecause configured damping parameters have been deleted

Message Parameters

Name	Type
p1	uInt32
p2	String
p3	uInt8

BGP.DecisnCoord.RtFlapDampPnltyNotClr

Description

The user requested that the route flap damping penalty be cleared from a route, but no penalty is currently held against that route.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR `%p1%`] User requested clearing of route flap penalty from route `%p2%`/`%p3%` which has no existing penalty

Message Parameters

Name	Type
p1	uInt32
p2	String
p3	uInt8

BGP.DecisnCoord.SessFSMInRsltInvAct

Description

An input to the Session FSM has resulted in an invalid action. The session FSM is in an inconsistent state.

Remedy

Gather diagnostics and contact technical support. Restart the session to the BGP peer.

Severity

Error

Message Text

[VR `%p1%`] Session FSM input caused invalid action: State `%p4%`, Input `%p3%`, Action `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt8
p3	sInt8
p4	sInt8

BGP.DecisnCoord.RecvSameRtFmAFM

Description

An identical route has been received from an AFM.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Debug-Verbose

Message Text

[VR `%p1%`] An identical route has been received from an AFM: Supported Prefix Type `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	DecByteArray

BGP.DecisnCoord.AllocMemFail

Description

A memory allocation failure occurred during DC-BGP processing. No information has been lost. The memory allocation will be retried on a timer.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR `%p1%`] Failed to allocate memory during BGP processing

Message Parameters

Name	Type
p1	uInt32

BGP.DecisnCoord.RtRfrshAFISAFINotSuprt

Description

A route refresh has been received for an AFI SAFI pair it did not announce support for. The route refresh will be ignored.

Remedy

Check why the neighbor is sending route refreshed for unsupported address families.

Severity

Warning

Message Text

[VR %p1%] Received ROUTE REFRESH from peer index=%p2% for unsupported afi-safi=%p3%-%p4%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	xInt16
p4	uInt8

BGP.DecisnCoord.PeerAdvertRtAFNotSuprt

Description

A peer has advertised a route for an address family it has not advertised support for. The session will be reset.

Remedy

Investigate the misbehaving peer.

Severity

Error

Message Text

[VR %p1%] Peer, index=%p2%, has advertised route with unsupported afi-safi=%p3%-%p4%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt16
p4	uInt8

BGP.DecisnCoord.RsrcFailStaticRedistRt

Description

There has been a resource failure while processing either a statically defined or redistributed route. The route will be queued and retried on a timer.

Remedy

This is typically observed in scaled scenarios close to operating limits. try to reduce number of peers or routes stored. If functionality degrades, try disabling and enabling bgp or restarting the process. If problem persists, contact technical support with the following information: "show tech" and "upload debug". System restart may be required for continued operation.

Severity

Error

Message Text

[VR `%p1%`] Failed to allocate resource while processing static or exported route, `%p2%`/`%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	uInt8

BGP.DecisnCoord.AllocMemFailProcPeerRt

Description

A memory allocation failure occurred while processing a route from a BGP Peer. Information about the new route has been lost. The session to the BGP peer will be reset.

Remedy

This is typically observed in scaled scenarios close to operating limits. try to reduce number of peers or routes stored. If functionality degrades, try disabling and enabling bgp or restarting the process. If problem persists, contact technical support with the

following information: "show tech" and "upload debug". System restart may be required for continued operation.

Severity

Error

Message Text

[VR `%p1%`] Failed to allocate memory while processing a route from a BGP Peer, index=`%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.DecisnCoord.AllocMemFailInitNewSess

Description

A memory allocation failure occurred while initializing a new BGP or AFM session. The session to the BGP peer will be reset.

Remedy

This is typically observed in scaled scenarios close to operating limits. try to reduce number of peers or routes stored. If functionality degrades, try disabling and enabling bgp or restarting the process. If problem persists, contact technical support with the following information: "show tech" and "upload debug". System restart may be required for continued operation.

Severity

Error

Message Text

[VR `%p1%`] Failed to allocate memory while initializing a new BGP or AFM session, index=`%p2%`, neighbor? `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	sInt

BGP.DecisnCoord.AllocMemFailActvSubComp

Description

A memory allocation failed while activating the Decision Coordinator sub-component of BGP. BGP RIB Manager will fail to activate.

Remedy

This is typically observed in scaled scenarios close to operating limits. try to reduce number of peers or routes stored. If functionality degrades, try disabling and enabling bgp or restarting the process. If problem persists, contact technical support with the following information: "show tech" and "upload debug". System restart may be required for continued operation.

Severity

Error

Message Text

[VR `%p1%`] Failed to allocate memory while activating the Decision Coordinator component

Message Parameters

Name	Type
p1	uInt32

BGP.DecisnCoord.StorNbrPfxMaxExcd

Description

The maximum number of prefixes allowed from a given peer would be exceeded by processing a received update. If the peer is configured to drop the connection in this case, then the connection will be reset. Otherwise, the received update will be dropped.

Remedy

Increase the number of allowed prefixes or limit the number of prefixes using more restrictive policies for this peer.

Severity

Warning

Message Text

[VR `%p1%`] The maximum number of prefixes stored for a neighbor would be exceeded.\nNeighbor IP address: `%p2%`\nAFI: `%p3%`\nSAFI: `%p4%`\nDefined max prefixes: `%p5%`\nDropping connection: `%p6%`\nIdle hold time: `%p7%`

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	uInt16
p4	uInt8
p5	sInt32
p6	sInt
p7	uInt32
p8	String

BGP.DecisnCoord.AFMSessFailMayRstrt

Description

An AFM session has failed and may restart. If the join comes back within the configured recovery duration, the routes learnt from the AFM will be re-synchronized. Otherwise, all routes learnt from this AFM will be withdrawn.

Remedy

Investigate why the AFM failed.

Severity

Info

Message Text

[VR %p1%] AFM session for afi-safi %p2%-%p3% has failed and may restart

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8

BGP.DecisnCoord.BGPSessFailMayRstrt

Description

A BGP peer session has failed and may restart. If the join comes back within the configured recovery duration, the routes learnt from the BGP peer will be re-synchronized using graceful restart processing. Otherwise, all routes learnt from this peer will be withdrawn.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR %p1%] BGP peer session, index=%p2%, has failed and may restart

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

BGP.DecisnCoord.AFMSessRstrt

Description

An AFM session has restarted. The AFM's routes will be re-synchronized.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR `%p1%`] Restarted AFM session for afi-safi=`%p2%-%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8

BGP.DecisnCoord.BGPSessRstrt

Description

A BGP peer session has restarted. The BGP peer's routes will be re-synchronized using graceful restart processing.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR `%p1%`] Restarted session for BGP Peer index=`%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

BGP.DecisnCoord.ReestbSessAdjRIBInTmout

Description

Failed to re-establish a session associated with an Adj-RIB-In within the specified restart time. Any stale routes will be removed as well as the Adj-RIB-In.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR `%p1%`] Failed to re-establish session for Adj-RIB-In: <AFM index=`%p4%` or Peer index=`%p5%`, \nafi-safi=`%p2%-%p3%`> within configured restart time

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	xInt32
p5	xInt32

BGP.DecisnCoord.ReallocMemNHArrayFail

Description

Memory reallocation of a BGP next hop's network next hop array has failed. The network next hop information for this BGP next hop may not have been updated. Routes using this BGP next hop may therefore be out of date.

Remedy

Free up resources. If the network next hop information is out of date, the reallocation will be re-tried on a timer.

Severity

Warning

Message Text

[VR %p1%] Failed to allocate memory for a BGP nexthop's (%p2%) network nhop array for safi %p3%

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	uInt8

BGP.DecisnCoord.RtNotElgblCauseCircDep

Description

A route is not eligible as it will cause a circular routing dependency, or a routing oscillation. The route will not be advertised to AFMs or peers.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR %p1%] Route %p2% made unfeasible due to circular routing dependency/route oscillation, \nnhop=%p3%, match addr=%p4%, reason=%p5%

Message Parameters

Name	Type
p1	uInt32
p2	String
p3	VarFmtByteArray
p4	VarFmtByteArray
p5	String

BGP.DecisnCoord.RtNotElgblNHNodeLocAddr

Description

A route is not eligible as it's next hop is one of this node's local addresses. The route will not be advertised to AFMs or peers.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR `%p1%`] Route `%p2%` made unfeasible as its nexthop `%p3%` is a local address

Message Parameters

Name	Type
p1	uInt32
p2	String
p3	VarFmtByteArray

BGP.DecisnCoord.RxRtRfrsh

Description

A ROUTE REFRESH message is being sent to a neighbor.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR `%p1%`] Sending ROUTE REFRESH to peer `%p4%` for afi-safi `%p8%-%p9%`

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	uInt16
p4	VarFmtByteArray
p5	uInt16
p6	uInt16
p7	xInt32
p8	uInt16
p9	uInt8

BGP.DecisnCoord.RecalcAdjRIBInPlcyChg

Description

Import policy affecting an Adj-RIB-In has been changed while the "soft reset with stored routing information" behavior is enabled. The routes in the given Adj-RIB-In are recalculated from a list of all the candidate routes that have been received from the associated peer. Import policy is re-applied to these candidates, and the Adj-RIB-In is adjusted accordingly.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR %p1%]Recalculating Adj-RIB-In: <Peer index=%p2%, afi-safi=%p3%-%p4%>, import policy changed

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt16
p4	uInt8

BGP.DecisnCoord.PauseWorkThrshExcd

Description

Decision Coordinator processing has paused because the limit on the amount of work that can be performed in this scheduler cycle has been reached.

Remedy

No action required - Informational message only. May be of interest to developers to trace and debug events

Severity

Debug-Summary

Message Text

[VR %p1%] BGP Decision Coordinator paused, work threshold reached

Message Parameters

Name	Type
p1	uInt32

BGP.DecisnCoord.AFMRejctAdvertRtCircDep

Description

The AFM has sent an ATG_QCRP_TABLE_UPDATE_ERR signal rejecting a route that BGP advertised to the AFM. This happens if the AFM determines that adding a new

route would cause a circular dependency. BGP will not advertise the affected route to the AFM or to its peers (and will withdraw the route from peers, if already advertised).

Remedy

If seen at start of day, before IGP has converged, then this is likely to be a benign transient state and can be ignored. Otherwise, check for possible routing loops.

Severity

Info

Message Text

[VR `%p1%`] Rejected route import, circ. dependency: \nnlri=`%p4%`/`%p5%`, afi-safi=`%p2%`-`%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	String
p5	uInt8

BGP.DecisnCoord.AFMChgActvFlgLocRIBRt

Description

BGP has received an indication that a loc-RIB route has been installed or removed from the routing table. BGP is updating the status of the route as active or inactive accordingly. A route that is now installed in the routing table is advertised to BGP peers. A route that is now removed from the routing table is withdrawn from BGP peers.

Remedy

No action required - Informational message only. May be of interest to developers to trace and debug events

Severity

Debug-Summary

Message Text

[VR %p1%] BGP route=%p4%/%p5%, afi-safi=%p2%-%p3%, made active/inactive=%p6% in RIB

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	String
p5	uInt8
p6	uInt32

BGP.DecisnCoord.ClrFlapStatsReqRtMap

Description

BGP has received a request to clear flap statistics for routes matching a Route Map, but the Route Map specified does not exist. The request to clear flap statistics will not be processed.

Remedy

Recreate the Route Map required and reissue the Clear Flap Statistics request.

Severity

Warning

Message Text

[VR %p1%] Route map (index=%p3%) specified in a clear flap stats request for peer (index=%p2%) not found

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32

BGP.DecisnCoord.NumPeerPfxRchWarnThrsh

Description

The number of prefixes received from a peer has reached the configured warning threshold level.

Remedy

Investigate the behavior of the peer.

Severity

Warning

Message Text

[VR `%p1%`] The number of prefixes from a peer has reached the warning threshold.\nNeighbor IP address: `%p2%`\nAFI: `%p3%`\nSAFI: `%p4%`\nNumber of prefixes: `%p5%`\nConfigured max prefixes: `%p6%`\nThreshold level `%p7%`

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	uInt16
p4	uInt8
p5	sInt32
p6	sInt32
p7	sInt32

BGP.DecisnCoord.RecvEOR

Description

An End-of-RIB marker has been received from a peer.

Remedy

No action required - Informational message only. May be of interest to operators and developers to trace and debug events

Severity

Info

Message Text

[VR %p1%] An End-of-RIB (EOR) marker has been received from a peer.\nNeighbor Index: %p2%\nNeighbor IP address: %p3%\nAFI: %p4%\nSAFI: %p5%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	VarFmtByteArray
p4	uInt16
p5	uInt8

BGP.DecisnCoord.RejRtCircDepExtRtBest

Description

The AFM has sent an ATG_QCRP_TABLE_UPDATE_ERR signal rejecting a BGP learned route that DC-BGP advertised as an alternative route to an AFM route. This happens if the AFM determines that adding the new BGP learned route would cause a circular dependency. DC-BGP will not advertise the affected BGP learned route to the AFM. The AFM route will still be advertised to BGP peers.

Remedy

If seen at start of day, before IGP has converged, then this is likely to be a benign transient state and can be ignored. Otherwise, check for possible routing loops.

Severity

Info

Message Text

[VR %p1%] Rejected route import: circ. dependency, Ext. route active, \nnlri=%p4%/%p5%, afi-safi=%p2%-%p3%

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	String
p5	uInt8

BGP.DecisnCoord.RtHasFlapped

Description

A route has flapped. The penalty tracked for the route is updated, and the route may be suppressed.

Remedy

No remedy is available.

Severity

Info

Message Text

`%p1%`/`%p2%` from peer `%p3%`:`%p4%` flapped `%p5%` times. Penalty `%p6%` Was `%p7%` now `%p8%` \nRIB Manager entity index: `%p9%` \nAFM AFI: `%p10%` \nAFM SAFI: `%p11%`

Message Parameters

Name	Type
p1	String
p2	uInt8
p3	VarFmtByteArray
p4	uInt16
p5	uInt16
p6	uInt32
p7	String
p8	String
p9	uInt32

Name	Type
p10	uInt16
p11	uInt8

BGP.DecisnCoord.MemAllFailGetNrliPre

Description

A memory allocation failure occurred while performing a GET on the NLRI prefix MIB table. The GET will fail to return a row.

Remedy

Free system resources and retry the GET.

Severity

Error

Message Text

Memory allocation failure occured during a GET on the NLRI prefix table. \nRIB Manager entity index: `%p1%`

Message Parameters

Name	Type
p1	xInt32

BGP.DecisnCoord.NumEstBgpSessOne

Description

The number of Established BGP sessions has moved from zero to one. DC-BGP has started a timer. While this timer is running, route advertisement will be postponed unless DC-BGP has no other internal work to do. This allows the Loc-RIB to converge before advertising routes to peers, preventing the same route being advertised multiple times.

Remedy

No remedy is available.

Severity

Info

Message Text

For the next %p2% seconds, BGP will not advertise routes to peers unless it \nhas no other internal work to do. \nThe phase 3 delay timer has started. Until it pops, phase 1 and phase 2 \nwork will always be processed in preference to phase 3 work. \nRIB Manager entity index: %p1%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

BGP.DecisnCoord.IntTmrCauBgpDelAdvStop

Description

The internal timer that caused DC-BGP to delay route advertisement has stopped. This happens either when the configured timer finishes, or the number of Established sessions drops to zero. DC-BGP will no longer delay route advertisement.

Remedy

No remedy is available.

Severity

Info

Message Text

BGP route advertisement is no longer delayed. \nThe phase 3 delay timer is no longer running. \nRIB Manager entity index: %p1%

Message Parameters

Name	Type
p1	uInt32

BGP.DecisnCoord.ReplRtUpdt

Description

The replaced_route field is been updated for a loc-RIB route CB.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

BGP `%p1%` loc-RIB Route CB `%p2%` (NLRI `%p3%` prefix length `%p4%`) replaced_route \nupdated to `%p5%`.

Message Parameters

Name	Type
p1	uInt32
p2	Ptr
p3	String
p4	uInt8
p5	Ptr

BGP.DecisnCoord.NHUnrchSessFail

Description

DC-BGP has received an indication that the next hop used by a peer is unreachable with a host route, and the peer is configured to use fallover. DC-BGP treats the BGP session as failed.

Remedy

No remedy is available.

Severity

Warning

Message Text

The next hop required to reach a peer is unreachable with a host route.\nDC-BGP treats the session as failed.\nRIB Manager entity index: `%p1%`\nNeighbor index: `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.DecisnCoord.AdjRIBInRecalcChgDMZ

Description

DMZ link configuration has changed, or bandwidth reported by I3 of an interface configured as a DMZ link has changed. The routes in the given Adj-RIB-In are modified adding, removing or altering (as appropriate) a DMZ link extended community attribute containing the link bandwidth.

Remedy

No remedy is available.

Severity

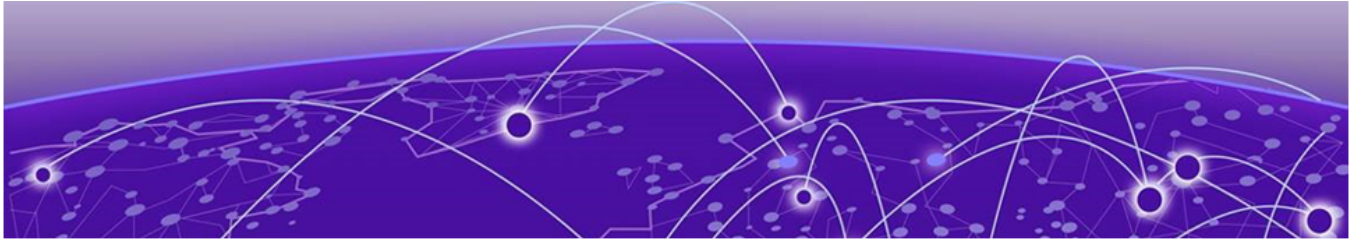
Info

Message Text

An Adj-RIB-In is being recalculated as a result of a change to DMZ \nlink configuration or to bandwidth reported by I3.\nRIB Manager entity index: `%p1%`\nNeighbor Index: `%p2%` \nAFI: `%p3%`\nSAFI: `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt16
p4	uInt8



BGP.EVPN Messages

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BGP.EVPN.MACStickyCleared on page 228

BGP.EVPN.MacMove

Description

RFC 7432 specifies that if a MAC moves between a local and remote device N times within an M second interval, a message should alert the user. By default the interval is 180 seconds and the number of moves is 5. Multiple EVPN routes may temporarily exist for this MAC.

Remedy

This error is cleared when only one route exists for this MAC.

Severity

Warning

Message Text

EVPN Entity `%EVPNEntity%` has multiple moves of MAC `%srcMAC%` within a single monitoring interval.

Message Parameters

Name	Type
EVPNEntity	uInt32
srcMAC	srcMAC

BGP.EVPN.MACSticky

Description

RFC 7432 notes that there are scenarios in which it is desired to configure some MAC addresses as static so that they are not subject to MAC moves. In such scenarios, these MAC addresses are advertised with a MAC Mobility extended community where the static flag is set to 1 and the sequence number is set to zero. If a PE receives such advertisements and later learns the same MAC address(es) via local learning, then the PE MUST alert the operator. This notification informs the user that the above condition has been cleared, because either the MAC is no longer sticky or the remote conflicting route has been cleared.

Remedy

Remove static MAC if necessary. "clear fdb <mac-address>"

Severity

Warning

Message Text

EVPN Entity `%EVPNEntity%` has detected a sticky mac `%srcMAC%`.

Message Parameters

Name	Type
EVPNEntity	uInt32
srcMAC	srcMAC

BGP.EVPN.MacMoveCleared

Description

RFC 7432 specifies that if a MAC moves between a local and remote device N times within an M second interval, a message should alert the user. By default the interval is 180 seconds and the number of moves is 5. This notification informs the user that the above condition has been cleared, because only one route exists for this MAC.

Remedy

No remedy is needed.

Severity

Warning

Message Text

EVPN Entity `%EVPNEntity%` cleared multiple moves of MAC `%srcMAC%`.

Message Parameters

Name	Type
EVPNEntity	uInt32
srcMAC	srcMAC

BGP.EVPN.MACStickyCleared

Description

RFC 7432 notes that there are scenarios in which it is desired to configure some MAC addresses as static so that they are not subject to MAC moves. In such scenarios, these MAC addresses are advertised with a MAC Mobility extended community where the static flag is set to 1 and the sequence number is set to zero. If a PE receives such advertisements and later learns the same MAC address(es) via local learning, then the PE MUST alert the operator. This notification informs the user that the above condition has been cleared, because either the MAC is no longer sticky or the remote conflicting route has been cleared.

Remedy

No remedy is needed.

Severity

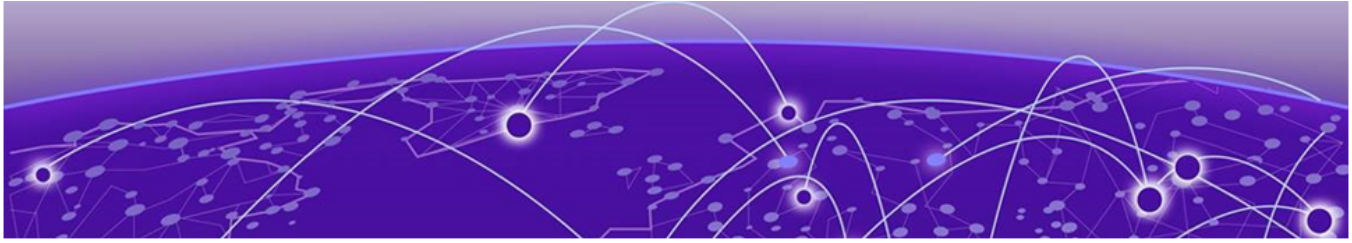
Warning

Message Text

EVPN Entity `%EVPNEntity%` cleared a sticky mac `%srcMAC%`.

Message Parameters

Name	Type
EVPNEntity	uInt32
srcMAC	srcMAC



BGP.PolicyMgr Messages

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BGP.PolicyMgr.InitRsrcFail

Description

A memory allocation failed while initializing the PM sub-component of Protocol. Protocol RIB Manager will fail to initialize.

Remedy

Investigate the memory shortage.

Severity

Error

Message Text

Protocol Resource failure during Policy Manager initialization. VR: `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.PolicyMgr.DeactvMIBRowFail

Description

A MIB row could not be deactivated because it is being referenced by another MIB row, or because a MIB action is pending for a MIB table that could depend on the MIB row. The MIB request to deactivate the row will fail.

Remedy

Before retrying the SET, remove any references to the MIB row from other tables.

Severity

Error

Message Text

Protocol Policy Manager MIB row could not be deactivated, as it is referenced by another MIB row, or because a MIB action is pending for a MIB table that could

reference the row. MIB table %p1% Index in the table: VR = %p2% Other index values: %p3% %p4% %p5% %p6% Tables that may refer to this MIB table: %p7% %p8%

Message Parameters

Name	Type
p1	String
p2	xInt32
p3	xInt32
p4	xInt32
p5	xInt32
p6	xInt32
p7	String
p8	String

BGP.PolicyMgr.AggrRtMatchCfgAdvrtMap

Description

Policy Manager will not aggregate a route in an Adj-RIB-Out because the route matches the advertise route map. The route will be advertised individually and will not be aggregated into an aggregate route.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Protocol Policy Manager will not aggregate a route because it matches the configured 'advertise' route map. VR: %p1% <AFI, SAFI>: <%p2%, %p3%> Prefix of aggregate address: %p4% Length of aggregate address prefix: %p5% Prefix of route which will not be aggregated: %p6% Length of route prefix: %p7%

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	HexByteArray
p5	uInt8
p6	HexByteArray
p7	uInt8

BGP.PolicyMgr.CreatRtMapTblMIBRowFail

Description

A MIB row in the bgpRouteMapTable could not be created, because it would mean that a route map which is being used as an attribute map for an aggregate route would have more than one row. The attempt to create the MIB row will fail.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Protocol Policy Manager could not create a MIB row in the bgpRouteMapTable because it would mean that a route map which is being used as an attribute map for an aggregate route would have more than one row. VR: `%p1%` Route map index: `%p2%` Route map number: `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32

BGP.PolicyMgr.RecvUpdtNonCfdASPathSeg

Description

An update has been received from a non-confederation EBGP peer containing an AS_PATH with the initial segment a confederation segment. The most common cause of this is a peer which has failed to remove the confederation part of the AS_PATH when exporting outside its confederation. If the first segment in the AS_PATH is not of length 0, it is replaced with a segment of type QB_AS_PATH_SEQ containing the Peer's remote AS number. Otherwise the AS_PATH has been corrupted so the route is not added to the Adj-RIB-In.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

An update has been received from a non-confederation peer which contains an AS_PATH with the first segment of a confederation type. VR: `%p1%` Peer BGP ID: `%p2%` Peer remote AS number `%p3%` Initial AS_PATH segment type `%p4%` Initial AS_PATH segment length `%p5%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt16
p4	uInt8
p5	uInt8

BGP.PolicyMgr.FndActvRtMapFail

Description

PM has failed to find the continue route map clause specified by a matching permit route map. The route will be permitted, but no additional filtering of the route will be performed.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

PM failed to find an active route map clause with the specified number. VR: `%p1%` Route Map Index: `%p2%` Route Map Number: `%p3%` Continue Clause: `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32
p4	uInt32

BGP.PolicyMgr.ModCfgTblMIBRowRtMapInv

Description

A MIB row in the bgpConfigTable could not be modified because the route map being assigned to the non-exist map or advertise map did not specify an exact NLRI match, was the wrong type, or was already in use by too many configs. The attempt to modify the MIB row will fail.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Protocol Policy Manager could not modify a MIB row in the bgpConfigTable because to do so would cause the non-exist or advertise map not to specify an exact NLRI match,

not be of type PERMIT, or be assigned to too many configs. VR: %p1% Route Map Index: %p2% Route Map Number: %p3%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32

BGP.PolicyMgr.ModCfgTblMIBRowCfgInv

Description

A MIB row in the bgpConfigTable could not be modified because to do so would result in a config with one or both of the two route-maps required for conditional advertisement not specified. A valid configuration must have both non-exist and advertise route-maps specified. The attempt to modify the MIB row will fail.

Remedy

Set the bgpConfigCondAdvOn flag to AMB_FALSE before modifying the conditional advertisement configuration. Set it back to AMB_TRUE when reconfiguration is complete.

Severity

Error

Message Text

Protocol Policy Manager could not modify a MIB row in the bgpConfigTable because to do so would result in one or both of the non-exist and advertise maps being unspecified. Both must be specified in a valid configuration. VR: %p1% Config Index: %p2%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.PolicyMgr.DeactvIPPfxMIBRowFail

Description

A MIB row in the bgpIpPreTable could not be deactivated because the route map to which it belongs is a non-exist or advertise map, and this route map has no other active IP prefixes. The attempt to deactivate the MIB row will fail.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Protocol Policy Manager could not modify a MIB row in the bgpIpPreTable because the route-map to which it belongs is an advertise or non-exist map, and has no other active IP prefixes. VR: `%p1%` Route Map Index: `%p2%` Route Map Number: `%p3%` IP Prefix Number: `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32
p4	uInt32

BGP.PolicyMgr.NHSelfCfgOvrrd3rdParty

Description

This peer group has been configured with both next-hop-self and third-party next-hop enabled. The next-hop-self configuration overrides the third-party next-hop.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

next-hop-self configuration overrides third-party next-hop configuration. VR: `%p1%` Peer group index: `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	xInt32

BGP.PolicyMgr.RxUpdtEBGPOneHopAwayInv

Description

An update has been received from an EBGP peer one IP hop away in which the next hop is not the address of the sender, and the interface associated with the next hop does not share our subnet. The update will be ignored.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

An update has been received from an EBGP peer one IP hop away in which the next hop is not the address of the sender, and the interface associated with the next hop does not share our subnet. VR: `%p1%` Peer BGP ID: `%p2%` Next Hop Address: `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	VarFmtByteArray

BGP.PolicyMgr.RecalcARORsrcFail

Description

The AROs could not be recalculated due to a resource failure. The resource_fail_timer has been started. When the timer pops another attempt will be made to recalculate the AROs.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

The AROs could not be recalculated due to a resource failure. VR: `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.PolicyMgr.DenyRtByPlcy

Description

A route has been denied by policy. The route will not be installed in the given RIB. This may be due to explicit denial (the route has matched a deny filter), or implicit denial (the route has not matched a permit filter).

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Protocol Policy Manager filtered out a route. VR: %p1% Peer index of the peer owning the RIB: %p2% Local address connecting to this peer: %p3% Remote address of this peer: %p4% ARI/ARO: %p5% Prefix of route: %p6% Length of route prefix: %p7%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	VarFmtByteArray
p4	VarFmtByteArray
p5	String
p6	String
p7	uInt8

BGP.PolicyMgr.RtNotAdvertNHSameTxPeer

Description

A route can not be advertised because its next hop is the same as the address of the peer to which it was being sent. The route will not be advertised to this peer.

Remedy

If the route should be advertised to the peer, set the bgpPeerCheckNextHop field of this peer's entry in the bgpPeerTable to AMB_FALSE. This will prevent the next hops being checked against the peer's address.

Severity

Info

Message Text

A route can not be advertised because its next hop is the same as the address of the peer to which it was being sent. VR: %p1% Neighbor index: %p2% Next Hop Address: %p3%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	VarFmtByteArray

BGP.PolicyMgr.CreatAggrRtNotAllow

Description

A MIB request has attempted to create an aggregate route for an AFI/SAFI which does not allow aggregation. The TEST has been rejected.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

A MIB request has attempted to create an aggregate route for an AFI/SAFI which does not allow aggregation. VR: `%p1%` Aggregate route prefix: `%p2%` Aggregate route prefix length: `%p3%` AFI: `%p4%` SAFI: `%p5%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	uInt8
p4	uInt16
p5	uInt8

BGP.PolicyMgr.RxUpdtNLRIInv

Description

An update has been received with invalid NLRI. The update will be ignored.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

An update has been received with invalid NLRI. VR: `%p1%` Peer BGP ID: `%p2%` NLRI destination address: `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	String

BGP.PolicyMgr.RecalcORFRsrcFail

Description

ORF advertisement lists could not be recalculated due to a resource failure. The resource_fail_timer has been started. When the timer pops another attempt will be made to recalculate the ORFs to be advertised to this peer. Additionally any change in import policy for this peer will result in another attempt.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

ORF advertisement lists could not be recalculated due to a resource failure. VR: `%p1%` Peer BGP ID: `%p2%` <AFI, SAFI>: <`%p3%`, `%p4%`>

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt16
p4	uInt8

BGP.PolicyMgr.ORFPfxEntCntnInvVal

Description

An ORF entry of type Prefix contains an invalid value. The entire ORF will be removed.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

An ORF entry of type Prefix contains an invalid value. VR: `%p1%` Peer BGP ID: `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.PolicyMgr.RemAllORFEntNotExist

Description

A REMOVE or REMOVE-ALL request has been received but the specified ORF does not exist. The request will be ignored.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

A request has been received to REMOVE or REMOVE-ALL an ORF/ORF entry but the specified ORF does not exist. VR: `%p1%` Peer BGP ID: `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.PolicyMgr.RemORFEntNotExist

Description

A request has been received to REMOVE an ORF entry but the specified entry does not exist. The REMOVE request will be ignored.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

A request has been received to REMOVE an ORF entry but the specified ORF entry does not exist. VR: `%p1%` Peer BGP ID: `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.PolicyMgr.ORFCmnPartCntnInvVal

Description

The common part of an ORF entry contains an invalid value. The entire ORF will be removed.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

The common part of an ORF entry contains an invalid value. VR: `%p1%` Peer BGP ID: `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.PolicyMgr.ChgSoftResetEfctvRstrt

Description

A peer group has had the soft reset with stored routing information behavior enabled or disabled whilst a session is already underway to a peer in this peer group. The change will not take effect for the peer until the session is restarted.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Soft reset with stored routing information has been enabled or disabled for a peer group whilst a session is underway for a peer within this peer group. The setting change will take effect for the peer when the session is next restarted. VR: `%p1%` Peer index: `%p2%` Peer group index: `%p3%` Peer group soft reset setting enabled: `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32
p4	sInt

BGP.PolicyMgr.RtNotAggrCntnSNPA

Description

Policy Manager failed to aggregate a route in a Loc-RIB because the route attributes contain SNPAs. The route will be advertised individually and will not be aggregated into an aggregate route.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Protocol Policy Manager has not aggregated a route because it contains SNPAs. VR: `%p1%` <AFI, SAFI>: <`%p2%`, `%p3%`> Prefix of aggregate address: `%p4%` Length of aggregate address prefix: `%p5%` Prefix of route which could not be aggregated: `%p6%` Length of route prefix: `%p7%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16

Name	Type
p3	uInt8
p4	HexByteArray
p5	uInt8
p6	HexByteArray
p7	uInt8

BGP.PolicyMgr.AggrRtNotAdvertIndvl

Description

Policy Manager has flagged an aggregated route such that it will not be added to any Adj-RIB-Out and hence not advertised. This is because the aggregated route either matches the aggregate address' suppress route map, or because the aggregate address is configured so that only the aggregate address is advertised and not the aggregated addresses. The route will be not be advertised individually and will only be advertised in the aggregate route.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Protocol Policy Manager has aggregated a route and will not advertise the route individually. VR: `%p1%` <AFI, SAFI>: <`%p2%`, `%p3%`> Prefix of aggregate address: `%p4%` Length of aggregate address prefix: `%p5%` Prefix of route which has been aggregated: `%p6%` Length of route prefix: `%p7%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	HexByteArray
p5	uInt8

Name	Type
p6	HexByteArray
p7	uInt8

BGP.PolicyMgr.WthdrwAggrRtAdvertIndvl

Description

Routes which match a defined aggregate have been received which do not have matching MED attributes, and the aggregate_med flag is set to FALSE in the RM Entity MIB. Policy manager will withdraw any existing aggregate route, and will advertise any matching routes individually.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Protocol Policy Manager has withdrawn an aggregate route, if it exists, and is advertising its constituent routes individually because they have differing MULTI-EXIT-DISC attributes. VR: `%p1%` <AFI, SAFI>: <`%p2%`, `%p3%`> Prefix of aggregate address: `%p4%` Length of aggregate address prefix: `%p5%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	HexByteArray
p5	uInt8

BGP.PolicyMgr.CreatRecalcAggrRtFail

Description

Policy Manager failed to create or re-calculate an aggregate route in a Loc-RIB. A route which should have been aggregated with the aggregate route will only be advertised individually.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Protocol Policy Manager has failed to create or re-calculate an aggregate route. VR: `%p1%` <AFI, SAFI>: <`%p2%` `%p3%`> Prefix of aggregate address: `%p4%` Length of aggregate address prefix: `%p5%` Prefix of route which could not be aggregated: `%p6%` Length of route prefix: `%p7%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	HexByteArray
p5	uInt8
p6	HexByteArray
p7	uInt8

BGP.PolicyMgr.DfltRtOrigInactvNoMatch

Description

A scan of the Loc-RIB has determined that default route origination has become active/inactive because a matching route has been found/not found. A locally generated default route will either be advertised or cease to be advertised depending on the change in state.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Protocol Policy manager has scanned the Loc-RIB and determined that default route origination has become active/inactive because a matching route has been found/not found. VR: %p1% Neighbor index: %p2% Update group index: %p6% <AFI, SAFI>: <%p3%, %p4%> Default Originate State: %p5%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt16
p4	uInt8
p5	String
p6	uInt32

BGP.PolicyMgr.RtNotAggrInactv

Description

Policy Manager has not aggregated a route in a Loc-RIB because the route is not programmed in the AFM, and inactive routes are being suppressed. The route will not be advertised either individually or aggregated into an aggregate route.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Protocol Policy Manager has not aggregated a route because it is inactive. VR: %p1% <AFI, SAFI>: <%p2%, %p3%> Prefix of aggregate address: %p4% Length of

aggregate address prefix: %p5% Prefix of route which could not be aggregated: %p6% Length of route prefix: %p7%

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	HexByteArray
p5	uInt8
p6	HexByteArray
p7	uInt8

BGP.PolicyMgr.PrvntRtMEDChgFmWrap

Description

An attempt to increment or decrement a route MED value would cause the MED value to wrap. The route MED value is set to the maximum or minimum value allowed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Protocol Policy Manager has prevented a route MED change from wrapping. VR: %p1% <AFI, SAFI>: <%p2%, %p3%> Route prefix: %p4% Length of route prefix: %p5% Original route MED: %p6% Increment required?: %p7% Increment or decrement amount: %p8% Updated route MED: %p9%

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8

Name	Type
p4	HexByteArray
p5	uInt8
p6	xInt32
p7	sInt
p8	xInt32
p9	xInt32

BGP.PolicyMgr.ActvRtMapNotSuprt

Description

Policy Manager has received a MIB request to activate a Route Map for an AFI/SAFI that is not currently supported. The Route Map is activated. The Route Map will have no effect until the support for the AFI/SAFI is enabled.

Remedy

The user should confirm that there has been no error in configuring a Route Map for an AFI/SAFI that is not currently supported.

Severity

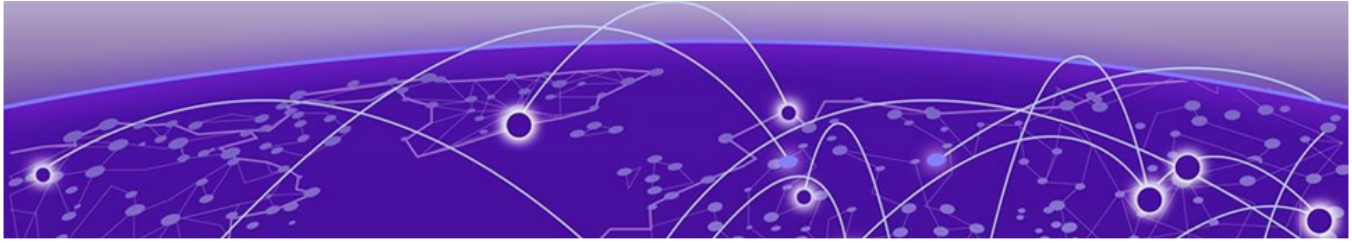
Warning

Message Text

Protocol Policy Manager has received a request to activate a Route Map for an AFI/SAFI that is not currently supported. VR: `%p1%` Route map index: `%p2%` Route map number: `%p3%` <AFI, SAFI>: <`%p4%`, `%p5%`>

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32
p4	uInt16
p5	uInt8



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BGP.RIBAbstract.AllocLocRIBFail

Description

Protocol RIB Abstraction Layer has failed to allocate resources for a Loc-RIB. RIB Manager will fail to initialize and Protocol cannot become operational.

Remedy

Allocate extra resources.

Severity

Error

Message Text

The Protocol RIB Abstraction Layer has failed to allocate resources for a Loc-RIB. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBAbstract.AllocAdjRIBFail

Description

The Protocol RIB Abstraction Layer has failed to allocate resources for a Adj-RIB-In or Adj-RIB-Out. The BGP session will fail to start. An attempt will be made to restart the session later.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

The Protocol RIB Abstraction Layer has failed to allocate resources for an Adj-RIB-In or Adj-RIB-Out. VR = `%p1%` Session type = `%p2%` AFI = `%p3%` SAFI = `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt8
p3	uInt16
p4	uInt8

BGP.RIBAbstract.AllocFail

Description

Protocol RIB Abstraction Layer has failed to allocate resources. An attempt will be made to allocate resources later.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

The Protocol RIB Abstraction Layer has failed to allocate resources. VR = %p1%

Message Parameters

Name	Type
p1	uInt32

BGP.RIBAbstract.AllocSetOperDampParam

Description

Protocol RIB Abstraction Layer has allocated a set of operational damping parameters.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

The Protocol RIB Abstraction Layer has allocated a set of operational damping parameters. VR = %p1% Penalty cutoff threshold = %p2% Penalty reuse threshold = %p3% Max route suppression time = %p4% Available route penalty half-life = %p5% Withdrawn route penalty half-life = %p6% Available route max penalty time = %p7% Withdrawn route max penalty time = %p8% Size of available routes penalty factor array = %p9% Size of withdrawn routes penalty factor array = %p10% Scale factor: integer part = %p11% Scale factor: fractional part = %p12%/65536 Max reuse index = %p13%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32
p4	uInt32

Name	Type
p5	uInt32
p6	uInt32
p7	uInt32
p8	uInt32
p9	uInt16
p10	uInt16
p11	uInt16
p12	uInt16
p13	uInt16

BGP.RIBAbstract.FreeSetOperDampParam

Description

Protocol RIB Abstraction Layer has freed a set of operational damping parameters.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

The Protocol RIB Abstraction Layer has freed a set of operational damping parameters. VR = `%p1%` Penalty cutoff threshold = `%p2%` Penalty reuse threshold = `%p3%` Max route suppression time = `%p4%` Available route penalty half-life = `%p5%` Withdrawn route penalty half-life = `%p6%` Available route max penalty time = `%p7%` Withdrawn route max penalty time = `%p8%` Size of available routes penalty factor array = `%p9%` Size of withdrawn routes penalty factor array = `%p10%` Scale factor: integer part = `%p11%` Scale factor: fractional part = `%p12%`/65536 Max reuse index = `%p13%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32

Name	Type
p4	uInt32
p5	uInt32
p6	uInt32
p7	uInt32
p8	uInt32
p9	uInt16
p10	uInt16
p11	uInt16
p12	uInt16
p13	uInt16

BGP.RIBAbstract.AllocTrackDampPnltyFail

Description

Protocol RIB Abstraction Layer has failed to allocate resources to track a route flap dampening penalty against a BGP route. A penalty will not be tracked against the withdrawn route. If the route is flapping, then Protocol will attempt to allocate a penalty CB the next time the route is withdrawn.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

The Protocol RIB Abstraction Layer has failed to allocate resources to track a route flap dampening penalty against a BGP route. VR = `%p1%` Route <AFI, SAFI> = <`%p2%`, `%p3%`> Route prefix length (bits) = `%p4%` Route prefix = `%p5%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16

Name	Type
p3	uInt8
p4	uInt8
p5	HexByteArray

BGP.RIBAbstract.BlkLocRIBNoAFMAvail

Description

A Loc-RIB has been blocked because no AFM is available for the AFI/SAFI. Changes to the Loc-RIB will not be advertised to peers until the Loc-RIB is unblocked when an AFM becomes available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A Loc-RIB has been blocked because no AFM is available for the AFI-SAFI. VR: `%p1%` AFI: `%p2%` SAFI: `%p3%`

Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8

BGP.RIBAbstract.UnBlkLocRIB

Description

A Loc-RIB has been unblocked. Changes to the Loc-RIB that were postponed while it was blocked will now be advertised to peers.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A Loc-RIB has been unblocked. VR: %p1% AFI: %p2% SAFI: %p3%

Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8

BGP.RIBAbstract.AllocRawRecvRt

Description

Protocol RIB Abstraction Layer has failed to allocate resources to store a raw route received from a peer. This can only occur when soft reset with stored routing information is enabled: This optional behavior uses a lot of memory. Information about the new route has been lost. The session to the BGP peer will be reset.

Remedy

Free system resources and retry the session.

Severity

Error

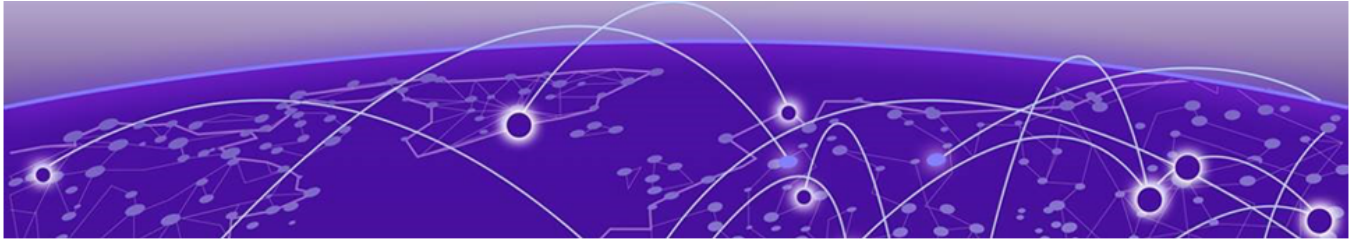
Message Text

The Protocol RIB Abstraction Layer has failed to allocate resources to store a raw received route. VR = %p1% Route <AFI, SAFI> = <%p2%, %p3%> Route prefix length (bits) = %p4% Route prefix = %p5%

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8

Name	Type
p4	uInt8
p5	HexByteArray



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BGP.RIBMgr.BGPCfgGrcflRstrtUnsuprt on page 295
BGP.RIBMgr.SetIPv6MaxAddrLenSmall on page 296
BGP.RIBMgr.IPv6PeerCfgNoGlobLocCfg on page 297
BGP.RIBMgr.IPv6PeerCfgNoIPv4LocCfg on page 297
BGP.RIBMgr.AFMJoinNotExist on page 298
BGP.RIBMgr.AddJoinAFMRsrcFail on page 299
BGP.RIBMgr.BegQueueIPSBusyDC on page 299
BGP.RIBMgr.EndQueueIPSBusyDC on page 300
BGP.RIBMgr.CoopRtFiltCapAFIUnsuprt on page 301
BGP.RIBMgr.CoopRtFiltCapORFUnsuprt on page 301
BGP.RIBMgr.RtRfrshMsgORFNotAgree on page 302
BGP.RIBMgr.RtRfrshMsgORFUnexpct on page 303
BGP.RIBMgr.ChgLocCapNotActvPeer on page 304
BGP.RIBMgr.CfgRstrtStateNotPrsrv on page 304
BGP.RIBMgr.PeerRsyncAftRtstrtTmout on page 305
BGP.RIBMgr.Dsbl4OctSuprtPeerPrsnt on page 305
BGP.RIBMgr.Dsbl4OctSuprtLocAS4Oct on page 306
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BGP.RIBMgr.InitFail

Description

The Protocol RIB Manager has failed to initialize. Protocol cannot become operational.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Error

Message Text

The Protocol RIB Manager has failed to initialize. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.InitHAFLibFail

Description

The Protocol RIB Manager has failed to initialize the HAF library. RIB Manager initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

The Protocol RIB Manager has failed to initialize the HAF library. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.DefJoinIfFail

Description

The Protocol RIB Manager has failed to define a join interface. RIB Manager initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

The Protocol RIB Manager has failed to define a join interface. Join interface ID = `%p1%` VR = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

BGP.RIBMgr.InitMIBProdSuprtLibFail

Description

The Protocol RIB Manager has failed to initialize the MIB product support library. RIB Manager initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

The Protocol RIB Manager has failed to initialize the MIB product support library. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.RegMIBLibFail

Description

The Protocol RIB Manager has failed to register a MIB with the MIB product support library. RIB Manager initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

The Protocol RIB Manager has failed to register a MIB with the MIB product support library. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.RecvSigInvQueue

Description

The Protocol RIB Manager has received a signal on an invalid queue. Protocol will terminate.

Remedy

Contact support personnel.

Severity

Error

Message Text

The Protocol RIB Manager has received a signal on an invalid queue. Queue ID = %p1%

Message Parameters

Name	Type
p1	xInt32

BGP.RIBMgr.RecvMsgTypeUnexpct

Description

Protocol RIB Manager has received an unexpected message type. Protocol will terminate

Remedy

Contact support personnel.

Severity

Error

Message Text

Protocol RIB Manager has received an unexpected message type. VR = %p1% Queue ID = %p2% IPS type = %p3%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32

BGP.RIBMgr.NbrMIBFSMInInv

Description

Invalid input to Protocol RIB Manager Neighbor MIB FSM. Protocol will terminate.

Remedy

Contact support personnel.

Severity

Error

Message Text

Invalid input to Protocol RIB Manager Neighbor MIB FSM. VR = `%p1%` Local address = `%p2%` Local port = `%p3%` Remote address = `%p4%` Remote port = `%p5%` Scope ID = `%p6%` Peer index = `%p7%` Action = `%p8%` Input = `%p9%` State = `%p10%`

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	uInt16
p4	VarFmtByteArray
p5	uInt16
p6	uInt32
p7	xInt32
p8	sInt8
p9	sInt8
p10	sInt8

BGP.RIBMgr.CnctFSMInInv

Description

Invalid input to Protocol RIB Manager Connection FSM. Protocol will terminate.

Remedy

Contact support personnel.

Severity

Error

Message Text

Invalid input to Protocol RIB Manager Connection FSM. VR = %p1% Local IP address = %p2% Local port = %p3% Remote address = %p4% Remote port = %p5% Scope ID = %p6% Peer index = %p7% Action = %p8% Input = %p9% State = %p10%

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	uInt16
p4	VarFmtByteArray
p5	uInt16
p6	uInt32
p7	xInt32
p8	sInt8
p9	sInt8
p10	sInt8

BGP.RIBMgr.RecvSigNonActJoin

Description

RM has received a signal on a non-active join. The signal will be ignored.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

RM has received a signal on a non-active join. VR = %p1% Queue ID = %p2% IPS type = %p3% IPS sender = %p4%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32
p4	xInt32

BGP.RIBMgr.ActvNbrPeerRowFail

Description

An attempt to activate a Neighbor Peer MIB row has failed either because of a resource shortage, or because a previous instance of the same Neighbor Peer MIB row is still in the process of being destroyed. The MIB request to create the Neighbor Peer MIB row has failed. Future attempts may succeed.

Remedy

Repeat the MIB operation.

Severity

Error

Message Text

An attempt to activate a Neighbor Peer MIB row has failed due to resource shortages or because a previous instance of the row is still in the process of being destroyed. VR = %p1% Local IP address = %p2% Remote IP address = %p3% Resource shortage = %p4%

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	VarFmtByteArray
p4	sInt

BGP.RIBMgr.DtectIntCflct

Description

The Protocol RIB Manager has detected an internal inconsistency. The primary RIB Manager instance will abend.

Remedy

Contact support personnel.

Severity

Error

Message Text

The Protocol RIB Manager has detected an internal inconsistency. Inconsistency code = `%p1%`

Message Parameters

Name	Type
p1	xInt32

BGP.RIBMgr.FailOvrAFMMstrJoin

Description

A master join to an AFM is failing over. There will be a pause in send/receive processing until the join is reconnected to a backup instance of the join partner.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

AFM Master join is failing over. MJ CB join index = `%p1%`

Message Parameters

Name	Type
p1	xInt32

BGP.RIBMgr.AFMMstrJoinFail

Description

A master join to an AFM has failed. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

An AFM master join has failed. MJ CB join index = `%p1%`

Message Parameters

Name	Type
p1	xInt32

BGP.RIBMgr.AFMMstrJoinNoSlave

Description

There is no slave entity available for the master join to an AFM. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

No slave entity available for the master join to an AFM. MJ CB join index = %p1%

Message Parameters

Name	Type
p1	xInt32

BGP.RIBMgr.AFMSlaveRfusMstrJoin

Description

An AFM slave entity has refused the master join to RIB Manager. No data will flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

AFM slave entity has refused master join to RIB Manager. MJ CB join index = %p1%

Message Parameters

Name	Type
p1	xInt32

BGP.RIBMgr.DeactvAFMMstrJoinOK

Description

The Master Join to an AFM has been deactivated normally. No more data can flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Master join to an AFM has been deactivated normally. MJ CB join index = %p1%

Message Parameters

Name	Type
p1	xInt32

BGP.RIBMgr.CnctFSMStateChg

Description

There has been a change in state of the RIB Manager Connection FSM.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

There has been a change in state of the RIB Manager Connection FSM VR = %p1% Local IP address = %p2% Local port = %p3% Remote IP address = %p4% Remote port = %p5% Scope ID = %p6% Peer index = %p7% Input = %p8% Old State = %p9% New State = %p10% Action = %p11%

Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray
p3	uInt16
p4	VarFmtByteArray
p5	uInt16
p6	uInt32

Name	Type
p7	xInt32
p8	uInt8
p9	uInt8
p10	uInt8
p11	uInt8

BGP.RIBMgr.NbrMIBFSMStateChgDetail

Description

There has been a change in state of the RIB Manager Neighbor MIB FSM.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

There has been a change in state of the RIB Manager Neighbor MIB FSM VR = `%p1%` Local IP address = `%p2%` Local port = `%p3%` Remote IP address = `%p4%` Remote port = `%p5%` Scope ID = `%p6%` Peer index = `%p7%` Input = `%p8%` Old State = `%p9%` New State = `%p10%` Action = `%p11%`

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	uInt16
p4	VarFmtByteArray
p5	uInt16
p6	uInt32
p7	xInt32
p8	uInt8
p9	uInt8

Name	Type
p10	uInt8
p11	uInt8

BGP.RIBMgr.CreatOK

Description

The Protocol RIB Manager has been created successfully.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

The Protocol RIB Manager has been created successfully. Process ID = `%p1%` VR = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	uInt32

BGP.RIBMgr.Dstry

Description

The Protocol RIB Manager has been destroyed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

The Protocol RIB Manager has been destroyed. Process ID = %p1% VR = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	uInt32

BGP.RIBMgr.RxRtRfrshMsg

Description

Protocol RIB Manager has received a ROUTE REFRESH message. Protocol will re-transmit the Adj-RIB-Out for the specified <AFI, SAFI>.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Protocol RIB Manager has received a ROUTE REFRESH message. VR = %p1% AFI = %p2% SAFI = %p3%

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8

BGP.RIBMgr.Actv

Description

Protocol RIB Manager has activated. BGP peering sessions may be started.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Protocol RIB Manager has activated. VR = `%p1%` Process ID = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.RIBMgr.DeActv

Description

Protocol RIB Manager has deactivated. BGP peering sessions will fail.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Protocol RIB Manager has deactivated. VR = `%p1%` Process ID = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.RIBMgr.NbrMIBFSMStateChg

Description

There has been a change in state of the RIB Manager Activation FSM.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

There has been a change in state of the RIB Manager Neighbor MIB FSM VR = `%p1%` Input = `%p2%` Old State = `%p3%` New State = `%p4%` Action = `%p5%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt8
p3	uInt8
p4	uInt8
p5	uInt8

BGP.RIBMgr.AcptJoinRsrcAllocFail

Description

RIB Manager has failed to accept a new join because of a resource allocation failure. The join is not accepted and cannot be used.

Remedy

Contact support personnel.

Severity

Error

Message Text

RIB Manager has failed to accept a new join because of a resource allocation failure. VR = %p1% Join index = %p2%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.RIBMgr.SlaveJoinFail

Description

A RIB Manager slave join has failed. No data can flow over given join.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

A RIB Manager slave join has failed. VR = %p1% Master entity index = %p2%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.RIBMgr.DeactvSlaveJoinOK

Description

A RIB Manager slave join to has been deactivated normally. No data can flow over this join.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

A RIB Manager slave join has been deactivated normally. VR = %p1% Master entity index = %p2%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.RIBMgr.ActvFSMInInv

Description

Invalid input to Protocol RIB Manager Activation FSM. Protocol will terminate.

Remedy

Contact support personnel.

Severity

Error

Message Text

Invalid input to Protocol RIB Manager Activation FSM. VR = %p1% Action = %p2% Input = %p3% State = %p4%

Message Parameters

Name	Type
p1	uInt32
p2	sInt8

Name	Type
p3	sInt8
p4	sInt8

BGP.RIBMgr.FailOvrMstrJoinStub

Description

A master join to a stub is failing over. No data can flow over this join. RM will deactivate.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Master join to a stub is failing over. Stub type = `%p1%` VR = `%p2%` Stub entity index = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

BGP.RIBMgr.MstrJoinStubFail

Description

A master join to a stub has failed. No data can flow over this join. RM will deactivate.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Master join to a stub has failed. Stub type = %p1% VR = %p2% Stub entity index = %p3%

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

BGP.RIBMgr.MstrJoinStubNoSlave

Description

There is no stub entity available for the master join to a stub. No data can flow over this join. RM will deactivate.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

No slave entity available for the master join to a stub. Stub type = %p1% VR = %p2% Stub entity index = %p3%

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

BGP.RIBMgr.SlaveRfusMstrJoin

Description

An stub slave entity has refused the master join to RIB Manager. No data will flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Stub slave entity has refused master join to RIB Manager. Stub type = `%p1%` VR = `%p2%` Stub entity index = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

BGP.RIBMgr.DeactvMstrStubJoinOK

Description

The Master Join to a stub has been deactivated normally. No more data can flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Master join to a stub has been deactivated normally. Stub type = %p1% VR = %p2% Stub entity index = %p3%

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

BGP.RIBMgr.ClrStatsNbrPeerMIBFail

Description

Failed to clear statistics for Neighbor Peer MIB. This is likely to be due to incorrect use of the MIB interface. This can happen if a SET for the peer MIB is sent without first sending a TEST, or if the TEST preceding the SET did not indicate that the statistics should be cleared. The peer statistics will not be cleared.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to clear statistics for neighbor peer MIB. VR = %p1% Local IP address = %p2% Remote IP address = %p3%

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	VarFmtByteArray

BGP.RIBMgr.RecvSigNonActJoinTrace

Description

RM has received a signal on a non-active AFM join which is not a register or unregister. The signal will be ignored.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

RM has received a signal on a non-active join. VR = `%p1%` Queue ID = `%p2%` IPS type = `%p3%` Join index = `%p4%` Join state = `%p5%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32
p4	uInt32
p5	uInt32

BGP.RIBMgr.RecvRspnsCrltrUnexpct

Description

RM has received an ATG_I3_GET_INET_ADDRS response containing an unexpected correlator or bad return code. The signal will be ignored.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

ATG_I3_GET_INET_ADDRS response received with an unexpected correlator or bad return code. VR = %p1% I3 Join index = %p2% Correlator = %p3% Return code = %p4%

Message Parameters

Name	Type
p1	uInt32
p2	sInt32
p3	Ptr
p4	sInt32

BGP.RIBMgr.ProcStubMsgRsrcUnavail

Description

An attempt to process an ATG_I3_INET_ADDR_ENTRY on a received I3 Stub message has failed due to resource shortages. The information is requested from the I3 stub again on a timer.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

An attempt to process an ATG_I3_INET_ADDR_ENTRY on a received I3 stub message has failed due to resource shortages. VR = %p1% I3 Join index = %p2% Correlator = %p3%

Message Parameters

Name	Type
p1	uInt32
p2	sInt32
p3	Ptr

BGP.RIBMgr.ProcStubMsgActTypeUnk

Description

An ATG_I3_INET_ADDR_IND has been received with an unknown action type. RM will terminate.

Remedy

Check that the I3 stub is sending correct address indications.

Severity

Error

Message Text

An attempt to process an ATG_I3_INET_ADDR_IND on a received I3 stub message has failed due to an unknown action type. VR = `%p1%` I3 Join index = `%p2%` Action = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt32
p3	uInt8

BGP.RIBMgr.JoinFSMInInv

Description

Invalid input to Protocol RIB Manager Join FSM. Protocol will terminate.

Remedy

Contact support personnel.

Severity

Error

Message Text

Invalid input to Protocol RIB Manager Join FSM. VR = %p1% Action = %p2% Input = %p3% State = %p4%

Message Parameters

Name	Type
p1	sInt32
p2	uInt8
p3	uInt8
p4	uInt8

BGP.RIBMgr.ProcStubMsgDataLost

Description

An attempt to process an ATG_I3_INET_ADDR_IND on a received I3 Stub message has failed either due to local resource shortages or receipt because the I3 has indicated that it has lost data. The information is requested from the I3 stub again on a timer.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

An attempt to process an ATG_I3_INET_ADDR_IND has failed due to local resource shortages or indication that the I3 join has lost some information for the request VR = %p1% I3 join index = %p2% Data lost flag value = %p3% Local resource ret code = %p4%

Message Parameters

Name	Type
p1	uInt32
p2	sInt32
p3	uInt8
p4	uInt8

BGP.RIBMgr.AllocLocAddrCBFail

Description

Failed to allocate memory for a QBRM_LOCAL_ADDRESS_CB. No more addresses are processed from the I3 IPS, and the addresses will be requested again on a timer.

Remedy

Free up resources on the system.

Severity

Warning

Message Text

Failed to allocate memory for a QBRM_LOCAL_ADDRESS_CB. VR = `%p1%` Address = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray

BGP.RIBMgr.AllocLocSubnetCBFail

Description

Failed to allocate memory for a QBRM_LOCAL_SUBNET_CB. No more addresses are processed from the I3 IPS, and the addresses will be requested again on a timer.

Remedy

Free up resources on the system.

Severity

Warning

Message Text

Failed to allocate memory for a QBRM_LOCAL_SUBNET_CB. VR = `%p1%` Subnet mask len (in bits) = `%p2%` Subnet = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt8
p3	VarFmtByteArray

BGP.RIBMgr.BGPSpkrCfgNoECMPBnft

Description

This BGP speaker has been configured to support iBGP ECMP and also to act as a route reflector. The configuration is legal, but there will be no benefit from ECMP. Processing overhead will increase, and will not deliver any benefit.

Remedy

Set bgpRmEntMaxIBgpEcmpRoutes to one, or stop acting as a route reflector.

Severity

Info

Message Text

This BGP speaker has been configured to support iBGP ECMP and also to act as a route reflector. The configuration is legal, but there will be no benefit from ECMP. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.FailOvrSlaveJoin

Description

A RIB Manager slave join is failing over. No data can flow over given join.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

A RIB Manager slave join is failing over. VR = `%p1%` Master entity index = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.RIBMgr.RstrtProcOK

Description

Protocol RIB Manager has completed restart processing. Protocol will now re-enter normal processing.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Protocol RIB Manager has completed all restart processing. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.RegWithStub

Description

Protocol RIB Manager is registering with a stub. RM will attempt to register with the stub.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Protocol RIB Manager is registering with the I3 stub. Stub type = %p1% VR = %p2%

Message Parameters

Name	Type
p1	String
p2	uInt32

BGP.RIBMgr.RecvRegRspnsFmStub

Description

Protocol RIB Manager has received a register response from a stub. If the register was successful, RM will continue to activate.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Protocol RIB Manager has received a register response from a stub. Stub type = %p1% VR = %p2% Register return code = %p3%

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	sInt32

BGP.RIBMgr.RecvRegOKRspnsFmAFM

Description

Protocol RIB Manager has received a successful register response from an AFM. Routes can now be transferred between RM and the AFM.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Protocol RIB Manager has received a successful register response from an AFM. VR = `%p1%` AFM AFI = `%p2%` AFM SAFI = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8

BGP.RIBMgr.RstrtStubTmout

Description

A stub has failed to restart within the configured time. RM will deactivate.

Remedy

Investigate the failure of the stub.

Severity

Warning

Message Text

A stub has failed to restart within the configured time. Stub type = `%p1%` VR = `%p2%`

Message Parameters

Name	Type
p1	String
p2	uInt32

BGP.RIBMgr.AFMRsyncAftRtstrtTmout

Description

RM AFM resynchronization after restart has timed out. The decision process will be run immediately.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

RM AFM resynchronization after restart has timed out. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.RecvRegFailspnsFmAFM

Description

Protocol RIB Manager has received an unsuccessful register response from an AFM. Routes cannot be transferred between RM and the AFM.

Remedy

Investigate why the AFM failed to register.

Severity

Warning

Message Text

Protocol RIB Manager has received an unsuccessful register response from an AFM. VR = `%p1%` AFM AFI = `%p2%` AFM SAFI = `%p3%` Register return code = `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	sInt32

BGP.RIBMgr.GrcflRstrtCflct

Description

Protocol RIB Manager has been configured to execute graceful restart procedures but with graceful restart support disabled. The MIB request to activate Protocol is rejected.

Remedy

Reconfigure Protocol RIB Manager so it does not execute graceful restart procedures.

Severity

Error

Message Text

Protocol RIB Manager graceful restart configuration is inconsistent. VR = `%p1%` Graceful restart supported = `%p2%` Do graceful restart = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt8
p3	uInt8

BGP.RIBMgr.ChgPfxTypeAdminUp

Description

A MIB request attempted to alter support for an address prefix type when RM is admin-up. The MIB request was rejected.

Remedy

Bring RM admin down before altering support for this prefix type.

Severity

Error

Message Text

A MIB request attempted to alter support for an address prefix type when RM is admin-up. VR = `%p1%` AFI = `%p2%` SAFI = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8

BGP.RIBMgr.BGPCfgGrcflRstrtUnsuprt

Description

Protocol has been configured as if the forwarding state for an AFI/SAFI has been preserved over a restart, but this instance of Protocol does not support graceful restart or is restarting without executing graceful restart procedures. The MIB request to activate Protocol is rejected.

Remedy

Either configure Protocol to enable graceful restart and execute graceful restart procedures, or set the state_kept flags of all AFI/SAFIs to FALSE.

Severity

Warning

Message Text

Protocol graceful restart state for AFI/SAFI = %p2%/%p3% is inconsistent. VR = %p1% Graceful restart supported = %p4% Do graceful restart = %p5%

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	uInt8
p5	uInt8

BGP.RIBMgr.SetIPv6MaxAddrLenSmall

Description

A MIB request attempted to set IPv6 support in RM, but the Q0_CUST_MAX_ADDR_LEN compile-time constant is too small for IPv6 addresses. The MIB request was rejected.

Remedy

To enable IPv6 support, Q0_CUST_MAX_ADDR_LEN must be at least 16.

Severity

Error

Message Text

A MIB request attempted to set IPv6 support in RM, but the Q0_CUST_MAX_ADDR_LEN compile-time constant is too small for IPv6 addresses. VR = %p1%

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.IPv6PeerCfgNoGlobLocCfg

Description

An IPv6 peer has been configured, but there are no global IPv6 local addresses configured. IPv6 routes will be advertised to the peer with a next hop that has not been advertised by the I3 stub as one of the local router's IP addresses.

Remedy

Configure a global IPv6 local IP address for this router.

Severity

Debug-Summary

Message Text

An IPv6 peer has been configured, but there are no global IPv6 local addresses configured. VR = `%p1%` Peers BGP Identifier = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.RIBMgr.IPv6PeerCfgNoIPv4LocCfg

Description

An IPv6 peer has been configured, but there are no IPv4 local addresses configured. IPv4 routes will be advertised to the peer using the local router's BGP identifier as the next hop, which may not be reachable by the receiving peer.

Remedy

Configure an IPv4 local IP address for this router.

Severity

Debug-Summary

Message Text

An IPv6 peer has been configured, but there are no IPv4 local addresses configured. VR = %p1% Peers BGP Identifier = %p2%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.RIBMgr.AFMJoinNotExist

Description

There is no active AFM join for an <AFI, SAFI> that requires one. RM cannot advertise routes belonging to this <AFI, SAFI> into the local forwarding table. It will not advertise any new routes of this <AFI, SAFI> to peers. It may also withdraw all previously advertised routes from peers.

Remedy

Ensure there is an AFM join available for this <AFI, SAFI>.

Severity

Info

Message Text

BGP can't program routes for AFI %p2%, SAFI %p3% to AFM %p1%. %p4% May be transient. Information for support: An active row in the bgpRmAfiSafiTable requires an AFM join, but none is present.

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8
p4	String

BGP.RIBMgr.AddJoinAFMRsrcFail

Description

RM has failed to add a join to an AFM because of resource failure. The AFM join is not available. RM may not be able to program routes into the local forwarding table. RM may may not advertise routes to peers if an AFM is required for this <AFI, SAFI> and there are no other active AFM joins for it.

Remedy

Free up resources and admin cycle the AFM MIB table to retry the join.

Severity

Error

Message Text

RM has failed to add a join to an AFM because of resource failure. VR = `%p1%` Join index = `%p2%` AFI = `%p3%` SAFI = `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt16
p4	uInt8

BGP.RIBMgr.BegQueueIPSBusyDC

Description

Protocol RIB Manager has received and queued an IPS from an AFM or the HAF whilst the Protocol Decision Coordinator is busy and is not ready to process any changes. This message is logged when the first such IPS is added to an empty queue and is not repeated for additional cases. Processing of queued IPSs will occur when the Decision Coordinator completes its work.

Remedy

If this happens frequently, consider adjusting pause processing thresholds so that Decision Coordinator is not blocked as much.

Severity

Info

Message Text

Protocol RIB Manager has begun queueing AFM and HAF IPSs due to blocked Decision Coordinator. IPS source = `%p1%` VR = `%p2%` First queued signal's type = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	xInt32

BGP.RIBMgr.EndQueueIPSBusyDC

Description

Protocol RIB Manager has emptied the queue of AFM and HAF IPSs which were queued earlier when the Decision Coordinator was blocked. Protocol RIB Manager is ready to process AFM and HAF IPSs immediately since queue is empty and Decision Coordinator is unblocked.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Protocol RIB Manager has completed processing its queue of AFM and HAF IPSs which were queued when Decision Coordinator was blocked. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.CoopRtFiltCapAFIUnsuprt

Description

A Cooperative Route Filtering Capability entry containing an unsupported AFI/SAFI combination has been received. Protocol will ignore this ORF capability. Peer will continue to receive unfiltered routes for this AFI/SAFI.

Remedy

Protocol should support ORF for all AFI/SAFI to which filtering rules are applicable. Investigate whether Protocol supports this AFI/SAFI combination.

Severity

Warning

Message Text

A Cooperative Route Filtering Capability entry containing an unsupported AFI/SAFI combination has been received. VR = `%p1%` Peer index = `%p2%` AFI = `%p3%` SAFI = `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt16
p4	uInt8

BGP.RIBMgr.CoopRtFiltCapORFUnsuprt

Description

A Cooperative Route Filtering Capability entry containing an unsupported ORF Type has been received. Protocol will ignore this entry. The Peer will receive unfiltered routes for this AFI/SAFI/Type combination.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A Cooperative Route Filtering Capability entry containing an unsupported ORF Type has been received. VR = %p1% Peer index = %p2% ORF Type = %p3%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt8

BGP.RIBMgr.RtRfrshMsgORFNotAgree

Description

A ROUTE REFRESH message containing ORF data has been received for an AFI/SAFI for which ORF support was not agreed during capability exchange. The ORF data will be ignored.

Remedy

Configure RM (and the peer) to advertise ORF support for this AFI/SAFI.

Severity

Error

Message Text

A ROUTE REFRESH message containing ORF data has been received for an AFI/SAFI for which ORF support was not agreed during capability exchange VR = %p1% Local peer address = %p2% Local port = %p3% Remote peer address = %p4% Remote port = %p5% Scope ID = %p6% AFI = %p7% SAFI = %p8%

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray

Name	Type
p3	uInt16
p4	VarFmtByteArray
p5	uInt16
p6	uInt32
p7	uInt16
p8	uInt8

BGP.RIBMgr.RtRfrshMsgORFUnexpct

Description

An ROUTE REFRESH message containing an unexpected ORF type has been received. This ORF will be ignored.

Remedy

If the ORF type is supported by Protocol then configure both the local node and the peer to support it.

Severity

Error

Message Text

A ROUTE REFRESH message containing an unexpected ORF type has been received. VR = `%p1%` Local peer address = `%p2%` Local port = `%p3%` Remote peer address = `%p4%` Remote port = `%p5%` Scope ID = `%p6%` AFI = `%p7%` SAFI = `%p8%` ORF type = `%p9%`

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray
p3	uInt16
p4	VarFmtByteArray
p5	uInt16
p6	uInt32
p7	uInt16

Name	Type
p8	uInt8
p9	uInt8

BGP.RIBMgr.ChgLocCapNotActvPeer

Description

Changes to local ORF capabilities do not apply to active peer connections. New connections will negotiate ORF based on the new capabilities however existing ones will not be updated.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Changes to local ORF capabilities do not apply to active peer connections. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.CfgRstrtStateNotPrsrv

Description

Protocol RIB Manager has been configured to restart gracefully but no AFI/SAFI state has been preserved. RM will transition out of restart immediately.

Remedy

Ensure that this is an expected configuration combination for your implementation.

Severity

Warning

Message Text

BGP %p1% will exit restart immediately because no AFI/SAFI state has been preserved. VR = %p1%

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.PeerRsyncAftRtstrtTmout

Description

RM peer resynchronization after restart (Selection Deferral) has timed out. The decision process will be run immediately.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

RM peer resynchronization after restart (Selection Deferral) has timed out. VR = %p1%

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.Dsbl4OctSuprtPeerPrsnt

Description

A MIB request attempted to disable four-octet AS number support in RM, but there is a four-octet peer present. The MIB request was rejected.

Remedy

Ensure that there are no four-octet peers present before disabling four-octet support in RM.

Severity

Error

Message Text

A MIB request attempted to disable four-octet AS number support in RM, but there is a four-octet peer present. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.Dsbl4OctSuprtLocAS4Oct

Description

A MIB request attempted to disable four-octet AS number support in RM, but the local AS number is a four-octet value. The MIB request was rejected.

Remedy

Ensure that the local AS number is set to a two-octet value before disabling four-octet support in RM.

Severity

Error

Message Text

A MIB request attempted to disable four-octet AS number support in RM, but the local AS number is a four-octet value. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.Dsbl4OctSuprtLocAS4OctA

Description

A MIB request attempted to disable four-octet AS number support in RM, but the local member AS number is a four-octet value. The MIB request was rejected.

Remedy

Ensure that the local member AS number is set to a two-octet value before disabling four-octet support in RM.

Severity

Error

Message Text

A MIB request attempted to disable four-octet AS number support in RM, but the local member AS number is a four-octet value. VR = `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.RIBMgr.ChgInactRtAdvertBGPEnbl

Description

A MIB request attempted to alter support for advertising inactive routes while BGP is enabled. The MIB request was rejected.

Remedy

Bring RM admin down before altering support for inactive routes.

Severity

Error

Message Text

A MIB request attempted to alter support for advertising inactive routes while BGP is enabled. VR = `%p1%` AFI = `%p2%` SAFI = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8

BGP.RIBMgr.ChgInactRtAdvertNoAllow

Description

A MIB request attempted disable advertising of inactive routes for an AFI/SAFI for which this is not allowed. The MIB request was rejected.

Remedy

Do not attempt to disable advertising of inactive routes for this AFI, SAFI.

Severity

Error

Message Text

A MIB request attempted to disable support advertising inactive routes for an AFI/SAFI for which this is not allowed. VR = `%p1%` AFI = `%p2%` SAFI = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8

BGP.RIBMgr.ClrFlapStatsFldNotSet

Description

A MIB request was received for the bgpPeerTable or bgpPeerStatusTable where the bgpPeer(Status)FlapStatsClearMap field was set but the bgpPeer(Status)FlapStatsClearStat field was not set. Flap statistics will not be cleared by this MIB request.

Remedy

To clear flap statistics for routes matching a Route Map, the user must set bgpPeer(Status)FlapStatsClearMap to indicate the Route Map, and must also set bgpPeer(Status)FlapStatsClearStat to indicate that Protocol should clear flap statistics.

Severity

Warning

Message Text

Protocol has received a MIB request to clear flap statistics for a Route Map, but the bgpPeer(Status)FlapStatsClearStat field was not set. VR = `%p1%` Peer index = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.RIBMgr.NHSelfCfgOvrrd3rdParty

Description

This peer has been configured with both next-hop-self and third-party next-hop enabled. The next-hop-self configuration overrides the third-party next-hop.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Next-hop-self configuration overrides third-party next-hop configuration. VR: `%p1%` Peer index: `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32

BGP.RIBMgr.ChgPeerCapNotActvPeer

Description

Changes to peer ORF capabilities do not apply to an active peer connection. Subsequent connections to peer will negotiate ORF based on the new capabilities however the existing one will not be updated.

Remedy

No action required - Informational message only.

Severity

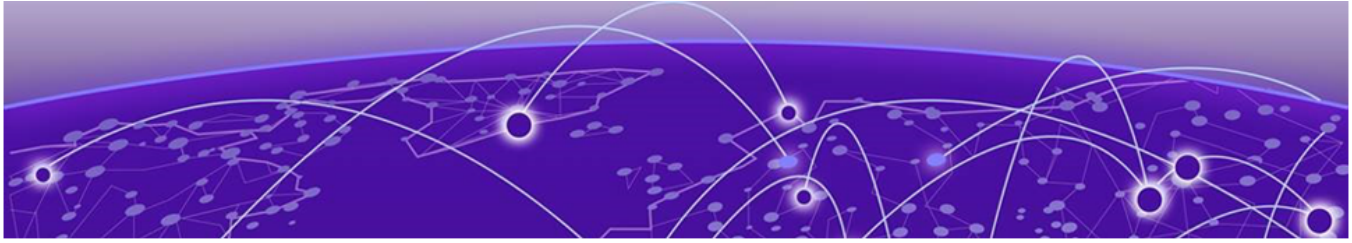
Info

Message Text

Changes to peer ORF capabilities do not apply to an active peer connection. VR = `%p1%` Peer index: = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	xInt32



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BGP.RtMgr.EnterFnc

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.ExitFnc

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.FlowTrace

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.DetailTrace

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.InitFailObjNotCreat

Description

The BGP RTMgr agent component failed to create an object during initialization. The BGP process will fail to start. The object that could not be created is either the receive thread, the receive thread lock or the data lock.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Critical

Message Text

BGP initialization failed. Could not create `%object%`.

Message Parameters

Name	Type
object	String

BGP.RtMgr.MSDPAllocFail

Description

BGP failed to allocate resources to track the BGP route for an MSDP destination.

Remedy

[No action required - Notification message only. MSDP will retry the request.

Severity

Notice

Message Text

Failed to allocate BGP resources for MSDP destination `%destipa%`

Message Parameters

Name	Type
destipa	IPaddress

BGP.RtMgr.AllocFail

Description

The BGP RTMgr agent failed to allocate resources for normal operation. This should be an unusual case - memory state notifications should ensure that the BGP process is disabled before a memory shortage becomes critical.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". Remove any configuration that could contribute to the memory shortage and restart BGP.

Severity

Notice

Message Text

Failed to allocate memory for `%object%`.

Message Parameters

Name	Type
object	String

BGP.RtMgr.APIFail

Description

This log indicates an unexpected failure of an API call from BGP to another EXOS process. Possible failure of one or more processes in the EXOS system.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Error

Message Text

Failed: `%format%`

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.LkupRegFail

Description

BGP RTMgr agent failed to find the RTMgr registration details when processing the specified message.

Remedy

[No action required - Notification message only. May be of interest to developers. It is unlikely to indicate a problem if seen when disabling BGP or when support is removed for an address family. If seen frequently during normal operation, it may indicate a problem. Restarting BGP may resolve the problem.

Severity

Notice

Message Text

Lookup failed for BGP registration handling message `%msg%`; VR ID=`%vrid%`, role=`%role%`, afi=`%afi%`, safi=`%safi%`.

Message Parameters

Name	Type
vrid	VRID
role	uInt8
afi	uInt16
safi	uInt8
msg	String

BGP.RtMgr.RtImprtIgnAttr

Description

BGP attributes are used when applying route import policy. In a VRF, the attributes may also be redistributed between the provider facing BGP instance and the CE facing BGP instance. This log indicates that some or all of the attributes have been ignored because they are too large or badly formed.

Remedy

An overlong community list, extended community list or AS path is likely to be the result of BGP policy applied elsewhere in the BGP network, and is therefore a network management issue.

Severity

Warning

Message Text

Overlarge or badly formed attributes have been ignored during route import.

BGP.RtMgr.APICall

Description

This log indicates a call to RtMgr Client Library API.

Remedy

[No action required - Informational message only. May be of interest to developers to trace and debug events in BGP.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.RtImprt

Description

API call to import routes into RIB succeeded.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

[VR `%vrid%`] `%reg%`: `%pfx%`/`%plen%` -> `%nhop%` [nhVR `%nvrid%`] rt origin `%proto%` flags `%flags%` ttl `%ttl%` rank `%rank%` opqlen `%len%`

Message Parameters

Name	Type
vrid	VRID
reg	String
pfx	IPaddress
plen	uInt8
nhop	IPaddress
nvrid	VRID
proto	String
flags	xInt

Name	Type
ttl	uInt32
rank	uInt8
len	uInt

BGP.RtMgr.RtImprtFail

Description

BGP failed in the API call to import routes into RIB. This indicates a failure occured when importing a route to the RIB. This could be due to lack of system resources or other system error.

Remedy

Please try restarting the peer, disabling and enabling BGP, or restarting BGP. Otherwise, this may be an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Warning

Message Text

[VR `%vrid%`] Call to import rt: `%reg%`: rt `%pfx%`/`%plen%` -> `%nhop%` err `%err%`

Message Parameters

Name	Type
vrid	VRID
reg	String
pfx	IPaddress
plen	uInt16
nhop	IPaddress
err	sInt

BGP.RtMgr.RtImprtBusy

Description

API call to import routes into RIB would block, RtMgr is busy. Requeue and retry later.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

[VR `%vrid%`] Requeue: `%reg%`: rt `%pfx%`/`%plen%` -> `%nhop%`

Message Parameters

Name	Type
vrid	VRID
reg	String
pfx	IPaddress
plen	uInt16
nhop	IPaddress

BGP.RtMgr.ProcImprtRtMsg

Description

Completely processed an import route msg from RPI stub sent via the mi queue.

Remedy

No action required - Information message only.

Severity

Debug-Data

Message Text

[VR `%vrid%`] reg `%reg%` afi-safi `%afi%-%safi%` msg `%msg%` nrtes `%nrtes%`

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
msg	Ptr
nrtes	uInt32

BGP.RtMgr.ProcImprtRtMsgYield

Description

Partially processed an import route message from RPI stub sent via the mi queue. Had to yield now due to blocking API towards rtmgr. Will come back later to complete processing.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

[VR `%vrid%`] Yield, msg partial proc: reg `%reg%` afi-safi `%afi%-%safi%`: msg `%msg%` nrtes `%nrtes%` nproc `%nproc%`

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
msg	Ptr
nrtes	uInt32
nproc	uInt32

BGP.RtMgr.ProcImprtRtMsgResume

Description

Resumed processing a partially processed import route message from RPI stub. Resumed from where previous processing left off.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

[VR `%vrid%`] Resume, partial proc msg: reg `%reg%` afi-safi `%afi%-%safi%`: msg `%msg%` nrtes `%nrtes%` start `%sproc%`

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
msg	Ptr
nrtes	uInt32
sproc	uInt32

BGP.RtMgr.ImprtRtSchedCmmt

Description

Scheduled commit of an RtMgr client API transaction to import routes, later, in case the current send a rtmgr client request ipml only partially.

Remedy

No action required - Information message only.

Severity

Debug-Data

Message Text

[VR %vrid%] Sched commit import rte trans: reg %reg% afi-safi %afi%-%safi%: work %work%

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
work	Ptr

BGP.RtMgr.RtImprtCmmtTrans

Description

Cmmtted an rtmgr client API transaction to import routes, in case the current send fills a rtmgr client request ipml only partially.

Remedy

No action required - Information message only.

Severity

Debug-Data

Message Text

[VR %vrid%] Cmmt import rt trans: reg %reg% afi-safi %afi%-%safi%: trans %hndl%

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16

Name	Type
safi	uInt8
hndl	Ptr

BGP.RtMgr.RtImprtCmmtTransFail

Description

BGP failed in the API call to commit import routes transaction to the RIB. This could be due to lack of system resources or a system error.

Remedy

Please try restarting the peer, disabling and enabling BGP, or restarting BGP. Otherwise, this may be an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Warning

Message Text

[VR `%vrid%`] Call to commit import route transaction: reg `%reg%` afi-safi `%afi%-%safi%`: trans `%hndl%` err `%err%`

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
hndl	Ptr
err	sInt

BGP.RtMgr.EnterRtMgrApiBackoff

Description

Entered backoff mode for RtMgr client API calls, since channel to rtmgr would block and RtMgr is busy.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

Enter backoff `%nthbackoff%` last state `%state%`

Message Parameters

Name	Type
nthbackoff	uInt32
state	sInt

BGP.RtMgr.ExitRtMgrApiBackoff

Description

Exited backoff mode for RtMgr client API calls, because channel to RtMgr is now ready to accept more client requests.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

Exit backoff `%nthbackoff%`: last state `%state%`

Message Parameters

Name	Type
nthbackoff	uInt32
state	sInt

BGP.RtMgr.NextHopReg

Description

Registered IP prefix of BGP nexthop with rtmgr.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] reg `%reg%` afi-safi `%afi%-%safi%`: nhop `%nhop%`/`%plen%` pType `%pType%` flags `%flags%`

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
nhop	IPaddress
plen	uInt8
pType	uInt8
flags	xInt8

BGP.RtMgr.NextHopRegFail

Description

Failed registration of IP prefix of BGP nexthop with rtmgr. Failure indicates lack of resources or other serious system error.

Remedy

Please try restarting the peer, disabling and enabling BGP, or restarting BGP. Otherwise, this may be an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Error

Message Text

[VR `%vrid%`] Failed registering nexthop with rtmgr: reg `%reg%` afi-safi `%afi%-%safi%`: nhop `%nhop%`/`%plen%` pType `%pType%` flags `%flags%` err `%err%`

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
nhop	IPaddress
plen	uInt8
pType	uInt8
flags	xInt8
err	sInt

BGP.RtMgr.NextHopUnreg

Description

Unregistered IP prefix of BGP nexthop previously registered with rtmgr.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR %vrid%] reg %reg% afi-safi %afi%-%safi%: nhop %nhop%/%plen% pType %pType% flags %flags%

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
nhop	IPaddress
plen	uInt8
pType	uInt8
flags	xInt8

BGP.RtMgr.NextHopUnregFail

Description

Failed unreg of IP prefix of BGP nexthop with rtmgr. Failure indicates lack of resources or a serious system error.

Remedy

Please try restarting the peer, disabling and enabling BGP, or restarting BGP. Otherwise, this may be an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Error

Message Text

[VR %vrid%] Failed unregistering nexthop from rtmgr: reg %reg% afi-safi %afi%-%safi%: nhop %nhop%/%plen% pType %pType% flags %flags% err %err%

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
nhop	IPaddress
plen	uInt8
pType	uInt8
flags	xInt8
err	sInt

BGP.RtMgr.NextHopRch

Description

BGP RtMgr Agent gets Next Hop is reachable indication from RtMgr.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] reg `%reg%` afi-safi `%afi%-%safi%`: `%pfx%`/`%plen%` pType `%pType%` -> `%rslvRoute%`/`%rslvLen%` `%rslvOrigin%` flags `%rslvFlags%`

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
pfx	IPaddress
plen	uInt8

Name	Type
pType	uInt8
rslvRoute	IPaddress
rslvLen	IPmasklen
rslvOrigin	String
rslvFlags	xInt

BGP.RtMgr.NextHopUnrch

Description

BGP RtMgr Agent gets Next Hop is unreachable indication from RtMgr.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] reg `%reg%` afi-safi `%afi%-%safi%`: `%pfx%`/`%plen%` pType `%pType%`

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uInt16
safi	uInt8
pfx	IPaddress
plen	uInt8
pType	uInt8

BGP.RtMgr.RecvExprtRtAdd

Description

Received a route add (add exported route or active indication) message from Rtm.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

[VR `%vrid%`] `%reg%`: `%proto%` `%pfx%`/`%plen%` -> `%nhop%` [nhVR `%nvrid%`] flags `%flags%` opq len `%len%`

Message Parameters

Name	Type
vrid	VRID
reg	String
proto	String
pfx	IPaddress
plen	uInt8
nhop	IPaddress
nvrid	VRID
flags	xInt
len	uInt

BGP.RtMgr.RecvExprtRtDel

Description

Received a route del (del exported route or inactive indication) message from Rtm.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

[VR `%vrid%`] `%reg%`: `%proto%` `%pfx%`/`%plen%` -> `%nhop%` [nhVR `%nvrid%`] flags `%flags%` opq len `%len%`

Message Parameters

Name	Type
vrid	VRID
reg	String
proto	String
pfx	IPaddress
plen	uInt8
nhop	IPaddress
nvrid	VRID
flags	xInt
len	uInt

BGP.RtMgr.RecvWalkRtNtfy

Description

Received a route from RTM for export into bgp, due to a walk that was started for a particular protocol (received notify indication message from Rtm).

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

[VR `%vrid%`] `%reg%`: walk {`%walkop%`,`%hndl%`} `%proto%` `%pfx%`/`%plen%` -> `%nhop%` [nhVR `%nvrid%`] flags `%flags%` opq len `%len%`

Message Parameters

Name	Type
vrid	VRID
reg	String
walkop	String
hndl	Ptr
proto	String

Name	Type
pfx	IPaddress
plen	uInt8
nhop	IPaddress
nvrid	VRID
flags	xInt
len	uInt

BGP.RtMgr.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.CreatRtMgrQPipeFail

Description

Error creating a pipe to post events to trigger processing of messages from rtmgr queued up in a rtmgr queueinternal to BGP.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System restart may be required for continued operation.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.CfgRtMgrQPipeFail

Description

Error configuring a pipe to post events to trigger processing of messages from rtmgr queued up in a rtmgr queueinternal to BGP.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.RecvRtMgrQTrigFail

Description

Error reading event to trigger processing of messages from rtmgr queued up in a rtmgr queueinternal to BGP.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System restart may be required for continued operation.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.SendRtMgrQTrigFail

Description

Error posting event to trigger processing of messages from rtmgr queued up in a rtmgr queueinternal to BGP.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Error

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

BGP.RtMgr.AddedNtfySvcToDisp

Description

Added rtmgr notify service to dispatcher. This is the service over which BGP receives messages from rtmgr.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

[VR `%vrid%`] Added RtMgr notify service to dispatcher: peer-id=`%peerid%` monitor fd=`%fd%`

Message Parameters

Name	Type
vrid	VRID
peerid	uInt32
fd	sInt32

BGP.RtMgr.AddNtfySvcToDispFail

Description

Adding rtmgr notify service to dispatcher failed at this time. This is the service over which BGP receives messages from rtmgr.

Remedy

This is a temporary failure. This API call will be retried at a later time until the call succeeds. BGP will cease to function until that time. If this situation persists, please call technical support with the following information from "show tech" and "upload debug". In case of persistent failures, BGP or system restart may be needed for continued operation.

Severity

Info

Message Text

[VR `%vrid%`] Failed adding RtMgr notify service to dispatcher: peer-id=`%peerid%` monitor fd=`%fd%` error=`%err%`

Message Parameters

Name	Type
vrid	VRID
peerid	uInt32
fd	sInt32
err	sInt

BGP.RtMgr.GetPurgeTmout

Description

BGP Gets purge timeout and remaining timer value after restart from RTM.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Get Purge Timeout: reg `%reg%` role `%role%` afi-safi `%afi%-%safi%`: purge-timeout=`%tout%` remaining=`%rem%` ret=`%ret%`

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
role	uInt8
afi	uInt16
safi	uInt8
tout	uInt32
rem	uInt32
ret	sInt

BGP.RtMgr.SetPurgeTmout

Description

BGP sets purge timeout value with RTM.

Remedy

[No action required - Informational message only. May be of interest to developers.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Set Purge Timeout: reg `%reg%` role `%role%` afi-safi `%afi%-%safi%`: purge-timeout=`%tout%` ret=`%ret%`

Message Parameters

Name	Type
vrid	VRID
reg	Ptr
role	uInt8
afi	uInt16
safi	uInt8
tout	uInt32
ret	sInt

BGP.RtMgr.SendRstrtUpdtStrt

Description

BGP sent restart update start msg to RTM.

Remedy

No action required - Debug message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Sent rstr update start: `%reg%`: ret=`%ret%`

Message Parameters

Name	Type
vrid	VRID
reg	String
ret	sInt

BGP.RtMgr.SendRstrtUpdtEnd

Description

BGP sent restart update end msg to RTM.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Sent rstr update end: `%reg%`: ret=`%ret%`

Message Parameters

Name	Type
vrid	VRID
reg	String
ret	sInt

BGP.RtMgr.RecvSelfRtNtfy

Description

Received a active route indication message from Rtm.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

[VR %vrid%] %reg%: %pfx%/%plen% rt origin %proto%

Message Parameters

Name	Type
vrid	VRID
reg	String
pfx	IPaddress
plen	uInt8
proto	String

BGP.RtMgr.NetworkAdd

Description

BGP adding network.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

[VR %vrid%] %reg%: nwk %pfx%/%plen% pType=%pType% plcy=%plcy% CB=%net%

Message Parameters

Name	Type
vrid	VRID
reg	String
pfx	IPaddress
plen	uInt8
pType	String

Name	Type
plcy	String
net	Ptr

BGP.RtMgr.NetworkDel

Description

BGP processed delete network.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] `%reg%`: nwk `%pfx%`/`%plen%` pType=`%pType%` CB=`%net%`

Message Parameters

Name	Type
vrid	VRID
reg	String
pfx	IPaddress
plen	uInt8
pType	String
net	Ptr

BGP.RtMgr.LostNtfySvcConn

Description

Closed ipml connection from rtmgr used for receiving notifications.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Error

Message Text

[VR `%vrid%`] Closed RtMgr Notify Service Connection.

Message Parameters

Name	Type
vrid	VRID

BGP.RtMgr.ExprtMasksReg

Description

Registered BGP export masks with rtmgr.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Register export masks: `%reg%`: client=`%client%` `%masks%` ret=`%ret%`

Message Parameters

Name	Type
vrid	VRID
reg	String
client	xInt

Name	Type
masks	String
ret	sInt

BGP.RtMgr.WalkStart

Description

Sent and started a walk request with rtmgr for exported routes or self routes.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Start `%oper%` walk: `%reg%`: `%proto%` dest-safi=`%esafi%` rtflags=`%rtflags%` flags=`%flags%` walk=`%walk%` hndl=`%hndl%`

Message Parameters

Name	Type
vrid	VRID
oper	String
reg	String
proto	String
esafi	uInt8
rtflags	xInt32
flags	xInt32
walk	Ptr
hndl	Ptr

BGP.RtMgr.RtAdd

Description

Add a Route to BGP Loc-RIB because of a network or export configuration.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] `%reg%`: `%pfx%`/`%plen%` -> `%nhop%` [nhVR `%nvrid%`] rt origin `%proto%` reason=`%reason%`

Message Parameters

Name	Type
vrid	VRID
reg	String
pfx	IPaddress
plen	uInt8
nhop	IPaddress
nvrid	VRID
proto	String
reason	String

BGP.RtMgr.RtDel

Description

Withdraw an exported or network route from BGP Loc-RIB.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] `%reg%`: `%pfx%`/`%plen%` rt origin `%proto%` reason=`%reason%`

Message Parameters

Name	Type
vrid	VRID
reg	String
pfx	IPaddress
plen	uInt8
proto	String
reason	String

BGP.RtMgr.RtRejExprtPlcy

Description

Reject an exported route from BGP due to policy deny.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] `%reg%`: `%proto%` `%pfx%`/`%plen%` -> `%nhop%` [nhVR `%nvrid%`] rt origin `%proto%`

Message Parameters

Name	Type
vrid	VRID
reg	String
pfx	IPaddress
plen	uInt8
nhop	IPaddress
nvrid	VRID
proto	String

BGP.RtMgr.MSDPPfxReg

Description

Register MSDP prefix. The status indicates the progress of registration. It may be pending waiting on a buffer allocation to send a query message to BGP module.

Remedy

No action required - Information message only.

Severity

Info

Message Text

[VR `%vrid%`] Reg MSDP prefix: `%pfx%`/`%plen%` proto=`%proto%`: CB=`%cb%` status=`%status%` rtinfo=`%rtinfo%`

Message Parameters

Name	Type
vrid	VRID
pfx	IPaddress
plen	uInt8
proto	String
cb	Ptr
status	String
rtinfo	String

BGP.RtMgr.MSDPPfxRegFail

Description

Failed registring MSDP prefix. This is usually due to a lack of resources.

Remedy

Please try restarting BGP or the switch. Otherwise, this may be an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Warning

Message Text

[VR `%vrid%`] Failed reg MSDP prefix: `%pfx%`/`%plen%` proto=`%proto%`

Message Parameters

Name	Type
vrid	VRID
pfx	IPaddress
plen	uInt8
proto	String

BGP.RtMgr.MSDPPfxUnreg

Description

Unregister MSDP Pfx.

Remedy

No action required - Information message only.

Severity

Info

Message Text

[VR `%vrid%`] Unreg MSDP prefix: `%pfx%`/`%plen%` proto=`%proto%`: CB=`%cb%`

Message Parameters

Name	Type
vrid	VRID
pfx	IPaddress
plen	uInt8
proto	String
cb	Ptr

BGP.RtMgr.MSDPRtInfoNtfy

Description

Sending BGP Route info for registered prefix to MSDP.

Remedy

No action required - Information message only.

Severity

Info

Message Text

[VR `%vrid%`] Sending BGP Rt info to MSDP: `%pfx%`/`%plen%` -> `%nhop%` proto=`%proto%` peer=`%peer%`(`%peertype%`) orig AS=`%orgAs%` last AS=`%lastAs%` AS len=`%aslen%`

Message Parameters

Name	Type
vrid	VRID
pfx	IPaddress
plen	uInt8
nhop	IPaddress
proto	String
peer	IPaddress
peertype	String
orgAs	uInt32
lastAs	uInt32
aslen	uInt16

BGP.RtMgr.VRCreate

Description

BGP RtMgr agent created a VR Control Block.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Created VR: vrf=`%isvrf%` vpn=`%isvpn%` CB=`%vrfcb%`

Message Parameters

Name	Type
vrid	VRID
isvrf	Char
isvpn	Char
vrfcb	Ptr

BGP.RtMgr.VRDel

Description

BGP RtMgr agent deleted a VR Control Block.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Deleted VR: vrf=`%isvrf%` vpn=`%isvpn%` CB=`%vrfcb%`

Message Parameters

Name	Type
vrid	VRID
isvrf	Char
isvpn	Char
vrfcb	Ptr

BGP.RtMgr.Reg

Description

BGP RtMgr agent registered with RtMgr for specified instance and Afi/Safi.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Register: `%reg%`

Message Parameters

Name	Type
vrid	VRID
reg	String

BGP.RtMgr.RegFail

Description

BGP RtMgr agent failed while registered with RtMgr for specified instance and Afi/Safi.

Remedy

This is an unexpected internal condition. Try disabling and enabling BGP first. Then attempt to restart BGP. If failure persists, this may be a problem needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Warning

Message Text

[VR `%vrid%`] Register: `%reg%`: ret=`%ret%`

Message Parameters

Name	Type
vrid	VRID
reg	String
ret	sInt

BGP.RtMgr.ProcRpiReg

Description

BGP RtMgr agent processed the RPI register message from BGP's RPI stub for a specific Afi/Safi.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Proc RPI Register: `%reg%`: result=`%res%`

Message Parameters

Name	Type
vrid	VRID
reg	String
res	String

BGP.RtMgr.Unreg

Description

BGP RtMgr agent un-registered with RtMgr for specified instance and Afi/Safi.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR %vrid%] Unregister: %reg%

Message Parameters

Name	Type
vrid	VRID
reg	String

BGP.RtMgr.RecvRstrtUpdtStrtAck

Description

BGP RtMgr Agent received an acknowledgement from RTM for the restart update start message.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

[VR %vrid%] Recv Ack for rstr update start: reg %reg%

Message Parameters

Name	Type
vrid	VRID
reg	String

BGP.RtMgr.RecvRstrtUpdtEndAck

Description

BGP RtMgr Agent received an acknowledgement from RTM for the restart update end message.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Recv Ack for rstr update end: reg `%reg%`

Message Parameters

Name	Type
vrid	VRID
reg	String

BGP.RtMgr.SendRstrTblEnd

Description

BGP RtMgr Agent sent a Rstrt table end message to BGP protocol for this afi/safi to indicate that RTM (RIB) has provided all external routes and/or active indication for BGP routes. BGP can now proceed with restart procedures such as performing bestpath on the Loc-RIB and advertising to peers

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Send rstr external route table end: `%reg%`

Message Parameters

Name	Type
vrid	VRID
reg	String

BGP.RtMgr.WalkEnd

Description

A walk request with rtmgr for exported routes or self routes has ended.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] End `%oper%` walk: `%reg%`: `%proto%` dest-safi=`%esafi%` walk=`%walk%` hndl=`%hndl%`

Message Parameters

Name	Type
vrid	VRID
oper	String
reg	String
proto	String
esafi	uInt8
walk	Ptr
hndl	Ptr

BGP.RtMgr.RtRejNwkPlcy

Description

Reject an network route from being added to BGP Loc-RIB due to a network policy deny.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR %vrid%] %reg%: %pfx%/%plen% -> %nhop% [nhVR %nvrid% rt origin %proto%]

Message Parameters

Name	Type
vrid	VRID
reg	String
pfx	IPaddress
plen	uInt8
nhop	IPaddress
nvrid	VRID
proto	String

BGP.RtMgr.MSDPRtInfoReq

Description

Request BGP to repeat an imported BGP route, so that we can resend the route info to MSDP.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR %vrid%] %afisafi% %pfx%/%plen%]

Message Parameters

Name	Type
vrid	VRID
afisafi	String
pfx	IPaddress
plen	uInt8

BGP.RtMgr.ProcRpiUnreg

Description

BGP RtMgr agent processed the Route Programming Interface (RPI) unregister message from BGP's RPI stub for a specific Afi/Safi.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Proc RPI Unregister: `%reg%`

Message Parameters

Name	Type
vrid	VRID
reg	String

BGP.RtMgr.VPNLabelInd

Description

BGP RtMgr agent forwarded the assigned VPN label indication from RtMgr to the VPN Mgr.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR %vrid%] %reg%: %labelind%

Message Parameters

Name	Type
vrid	VRID
reg	String
labelind	String

BGP.RtMgr.VPNLabelIndSupp

Description

BGP RtMgr agent suppressed a VPN label indication from RtMgr for a particular VRF.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR %vrid%] %reg%: %labelind% reason=%reason%

Message Parameters

Name	Type
vrid	VRID
reg	String
labelind	String
reason	String

BGP.RtMgr.VPNLabelChgFlapVR

Description

BGP RtMgr agent flapped VR admin state due to label change event.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] `%reg%`

Message Parameters

Name	Type
vrid	VRID
reg	String

BGP.RtMgr.RegStateChg

Description

The BGP RtMgr agent's registration state for a particular instance of BGP or VPN Mgr changed.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] `%reg%`: `%oldstate%` -> `%newstate%`

Message Parameters

Name	Type
vrid	VRID
reg	String
oldstate	String
newstate	String

BGP.RtMgr.RegStateActInv

Description

The BGP RtMgr agent tried to perform an action that was invalid its current state.

Remedy

No action required - Information message only.

Severity

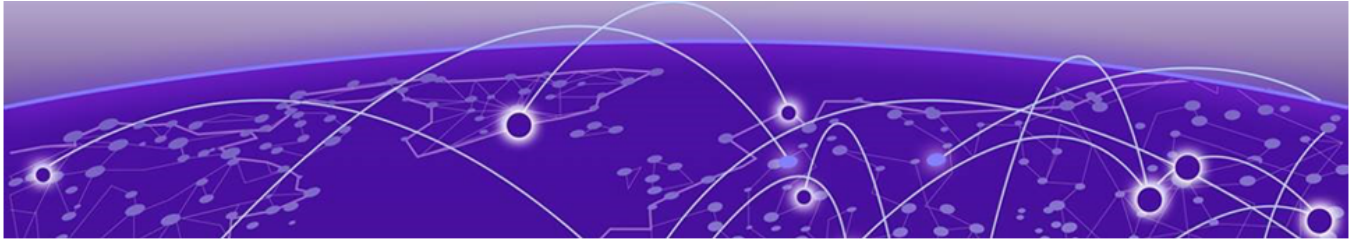
Debug-Summary

Message Text

[VR `%vrid%`] `%reg%`: Invalid action in state `%state%`, `%actionstr%`

Message Parameters

Name	Type
vrid	VRID
reg	String
state	String
actionstr	String



BGP.UpdateMgr Messages

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BGP.UpdateMgr.DlaySendBGPUpdtRtSuprs on page 367
BGP.UpdateMgr.RtNotAdvertLargeUpdtMsg on page 368
BGP.UpdateMgr.ChgDurSuprsTimer on page 368

BGP.UpdateMgr.InitRsrcFail

Description

A memory allocation failed while initializing the UM sub-component of Protocol. Protocol RIB Manager will fail to initialize.

Remedy

Investigate the memory shortage.

Severity

Error

Message Text

Protocol Resource failure during Update Manager initialization. VR: `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.UpdateMgr.FSMErr

Description

FSM error encountered in the UM sub-component of Protocol. Protocol RIB Manager will terminate.

Remedy

Contact support.

Severity

Error

Message Text

Protocol Update Manager FSM error. VR: `%p1%` Action: `%p2%` Input: `%p3%` FSM state: `%p4%`.

Message Parameters

Name	Type
p1	uInt32
p2	sInt8
p3	sInt8
p4	sInt8

BGP.UpdateMgr.PauseWaitPostBuf

Description

Processing has paused because UM has posted for a buffer. Processing will continue when the buffer is posted.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Protocol Update Manager has paused waiting for a posted buffer. VR: `%p1%` Buffer action correlator: `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt8

BGP.UpdateMgr.PauseWorkThrshRch

Description

Update Manager processing has paused because the limit on the amount of work that can be performed in this scheduler cycle has been reached.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Protocol Update Manager has paused because the work threshold has been reached. VR: `%p1%` Pause type: `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt8

BGP.UpdateMgr.ContProcAftPause

Description

Update Manager processing has continued following a pause where the limit on the amount of work that can be performed in a scheduler cycle was reached.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Protocol Update Manager has continued processing following a pause. VR: `%p1%` Pause type: `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt8

BGP.UpdateMgr.RecvPostBuf

Description

Update Manager has received a posted buffer.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Protocol Update Manager has received a posted buffer. VR: `%p1%` Buffer action correlator: `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt8

BGP.UpdateMgr.PauseRsrcFail

Description

Update Manager processing has paused because a resource failure occurred. Update Manager will retry on a timer. If resources are made available, then the operation of Protocol will not be affected.

Remedy

Make more memory available to Protocol, or reduce the memory requirements of Protocol - for example, by terminating sessions.

Severity

Warning

Message Text

Protocol Update Manager has paused because of a resource failure. VR: `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.UpdateMgr.DlaySendBGPUpdtRtSuprs

Description

Update Manager has delayed sending a BGP UPDATE as a route is suppressed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Protocol Update Manager has delayed sending a BGP UPDATE as a route is suppressed. VR: `%p1%`

Message Parameters

Name	Type
p1	uInt32

BGP.UpdateMgr.RtNotAdvertLargeUpdtMsg

Description

A route can not be advertised because it is too large to fit into the maximum allowed size of a BGP UPDATE message. The route will not be advertised to BGP peers.

Remedy

Modify policy configuration so that excessive route attributes are not added to routes.

Severity

Warning

Message Text

A route can not be advertised because it is too large to fit into the maximum allowed size of a BGP UPDATE message. VR = `%p1%` Destination address AFI/SAFI = `%p2%` Destination address prefix = `%p3%` Destination address prefix length = `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt8
p3	String
p4	uInt8

BGP.UpdateMgr.ChgDurSuprsTimer

Description

The duration of the suppression timer has been changed. The suppression times for routes that are currently being suppressed will be changed.

Remedy

No action required - Informational message only.

Severity

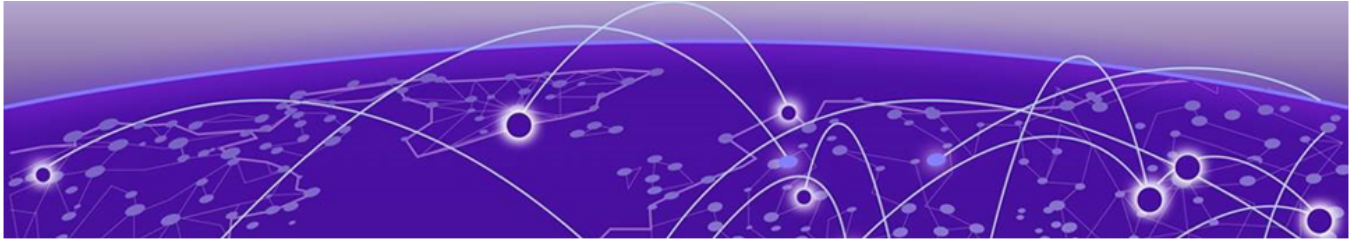
Debug-Summary

Message Text

The duration of the suppression timer has been changed. The suppression times for routes that are currently being suppressed will be changed. VR: `%p1%` Old timer duration: `%p2%` New timer duration: `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32



BGP.VLAN Messages

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BGP.VLAN.SendMsgFail on page 372
BGP.VLAN.DevTest on page 372
BGP.VLAN.RecvGetAddrReq on page 373
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BGP.VLAN.RecvCreatVR on page 375
BGP.VLAN.RecvDelVR on page 375
BGP.VLAN.RecvCreatVLAN on page 376
BGP.VLAN.RecvDelVLAN on page 376
BGP.VLAN.SendAddr on page 377
BGP.VLAN.RecvUpdtVR on page 378

BGP.VLAN.AllocMsgFail

Description

This log indicates that the BGP VLAN agent failed to allocate a message to inform the BGP protocol stack of a change of VLAN or IP address state.

Remedy

The VLAN agent will retry after a short delay and so the situation will resolve by itself.

Severity

Info

Message Text

Failed to allocate resources to inform BGP of a change of VLAN state.

BGP.VLAN.APIFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Notice

Message Text

Call to `%api%` failed.

Message Parameters

Name	Type
api	String

BGP.VLAN.RecvReqSmall

Description

The BGP VLAN agent is unable to respond to an initial request for VLAN information from the BGP protocol stack because the request message is badly formed.

Remedy

No remedy is available.

Severity

Error

Message Text

Message requesting VLAN information in `%function%` has been dropped because it is too small.

Message Parameters

Name	Type
function	String

BGP.VLAN.SendMsgFail

Description

The BGP VLAN agent failed to respond to an initial query from BGP for VLAN information. This can result in BGP activation failure.

Remedy

Stop and restart the BGP process.

Severity

Error

Message Text

Failed to send initial VLAN configuration to BGP

BGP.VLAN.DevTest

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

BGP.VLAN.RecvGetAddrReq

Description

BGP VLAN agent receives a get-address request from BGP.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Req: start ifInst=`%ifInst%` addr=`%addr%` `%getsec%`

Message Parameters

Name	Type
vrid	VRID
ifInst	xInt
addr	IPaddress
getsec	String

BGP.VLAN.PrepGetAddrReply

Description

BGP VLAN agent packs one IPv4 or IPv6 address in the reply message being prepared in response to a "get addresses" request from BGP.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Get Addr: ifInst=`%ifInst%`: `%addr%`/`%mlen%` scope=`%scope%`

Message Parameters

Name	Type
vrid	VRID
ifInst	xInt
addr	IPaddress
mlen	uInt8
scope	uInt

BGP.VLAN.SendGetAddrReply

Description

BGP VLAN agent has processed a get-addresses" request. Sending the reply message in response.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Reply: nentries=`%nentries%` more=`%more%`

Message Parameters

Name	Type
vrid	VRID
nentries	sInt
more	Char

BGP.VLAN.RecvCreatVR

Description

BGP VLAN agent received a create VR callback from the vlan client library.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Created VR `%name%`: vrf=`%isvrf%` vpn=`%isvpn%`

Message Parameters

Name	Type
vrid	VRID
name	String
isvrf	Char
isvpn	Char

BGP.VLAN.RecvDelVR

Description

BGP VLAN agent received a delete VR callback from the vlan client library.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Deleted VR `%name%`

Message Parameters

Name	Type
vrid	VRID
name	String

BGP.VLAN.RecvCreatVLAN

Description

BGP VLAN agent received a create VLAN callback from the vlan client library.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] `%vrname%`: Vlan `%name%`: ifInst=`%inst%` kernIdx=`%kidx%` tag status=`%tstatus%`

Message Parameters

Name	Type
vrid	VRID
vrname	String
name	String
inst	xInt
kidx	xInt
tstatus	uInt16

BGP.VLAN.RecvDelVLAN

Description

BGP VLAN agent received a delete VLAN callback from the vlan client library.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Vlan `%name%`: ifdx=`%inst%`

Message Parameters

Name	Type
vrid	VRID
name	String
inst	xInt

BGP.VLAN.SendAddr

Description

BGP VLAN agent sends an indication to add, delete or update an IPv4 or IPv6 address to BGP.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

[VR `%vrid%`] Addr `%oper%`: if=`%ifname%` ifInst=`%ifInst%`: `%addr%`/`%mlen%`

Message Parameters

Name	Type
vrid	VRID
oper	String
ifname	String

Name	Type
iflnst	xInt
addr	IPaddress
mlen	uInt8

BGP.VLAN.RecvUpdtVR

Description

BGP VLAN agent received a update VR callback from the vlan client library.

Remedy

No action required - Information message only.

Severity

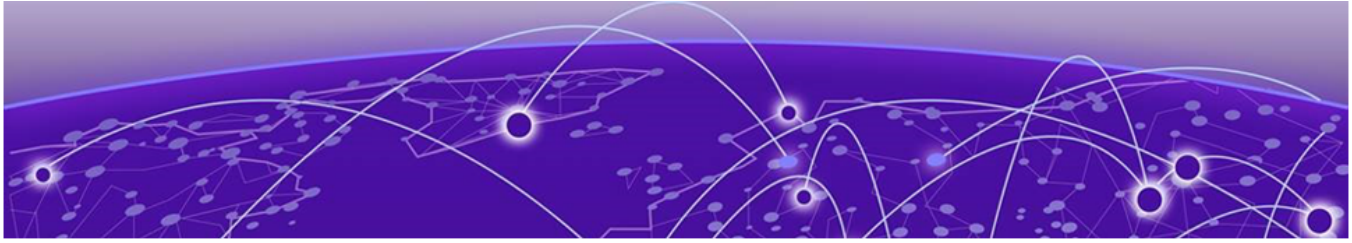
Debug-Summary

Message Text

[VR `%vrid%`] Updt VR `%name%`: `%updtinfo%`

Message Parameters

Name	Type
vrid	VRID
name	String
updtinfo	String



BGP.VPNMgr Messages

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BGP.VPNMgr.InitHAFLibFail on page 381
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BGP.VPNMgr.RecvSigInvQueue on page 384
BGP.VPNMgr.RecvMsgTypeUnexpct on page 384
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BGP.VPNMgr.RecvSigFmInvPrtnr on page 386
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BGP.VPNMgr.InitFail

Description

The Protocol VPN Manager has failed to initialize. Protocol cannot become operational.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Error

Message Text

The Protocol VPN Manager has failed to initialize. VRID = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.InitHAFLibFail

Description

The Protocol VPN Manager has failed to initialize the HAF library. BVM initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

The Protocol VPN Manager has failed to initialize the HAF library. VRID = %p1%

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.DefJoinIfFail

Description

The Protocol VPN Manager has failed to define a join interface. BVM initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

The Protocol VPN Manager has failed to define a join interface. Join interface ID = %p1% VRID = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	sInt32

BGP.VPNMgr.InitMIBProdSuprtLibFail

Description

The Protocol VPN Manager has failed to initialize the MIB product support library. BVM initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

The Protocol VPN Manager has failed to initialize the MIB product support library. VRID = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.RegMIBLibFail

Description

The Protocol VPN Manager has failed to register a MIB with the MIB product support library. BVM initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

The Protocol VPN Manager has failed to register a MIB with the MIB product support library. VRID = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.RecvSigInvQueue

Description

The Protocol VPN Manager has received a signal on an invalid queue. Protocol will terminate.

Remedy

Gather diagnostics and contact support personnel.

Severity

Error

Message Text

The Protocol VPN Manager has received a signal on an invalid queue. BVM entity Index = `%p1%` Queue ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32

BGP.VPNMgr.RecvMsgTypeUnexpct

Description

Protocol VPN Manager has received an unexpected message type. Protocol will terminate

Remedy

Gather diagnostics and contact support personnel.

Severity

Error

Message Text

Protocol VPN Manager has received an unexpected message type. VRID = %p1% Queue ID = %p2% IPS type = %p3%

Message Parameters

Name	Type
p1	sInt32
p2	xInt32
p3	xInt32

BGP.VPNMgr.Dstry

Description

The Protocol VPN Manager has been destroyed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

The Protocol VPN Manager has been destroyed. Process ID = %p1% VRID = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	sInt32

BGP.VPNMgr.RecvSigFmInvPrtnr

Description

A signal has been received from an invalid partner. The signal will be dropped.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Info

Message Text

A signal has been received from an invalid partner. VRID = `%p1%` Receiver Handle = `%p2%` Sender Process ID = `%p3%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32

BGP.VPNMgr.AccptJoinFmBGPInstc

Description

BVM has accepted a join from a BGP instance. Nothing.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

BVM has accepted a join from a BGP instance. VRID = %p1% BGP Process ID = %p2% BGP sender handle = %p3%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32

BGP.VPNMgr.NotJoinToBGPInstc

Description

BVM is no longer joined to a BGP instance. Nothing.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

BVM is no longer joined to a BGP instance. VRID = %p1% BGP Process ID = %p2% BGP sender handle = %p3%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32

BGP.VPNMgr.DtectIntCflct

Description

The Protocol VPN Manager has detected an internal inconsistency. The primary BVM instance will abend.

Remedy

Gather diagnostics and contact support personnel.

Severity

Error

Message Text

The Protocol VPN Manager has detected an internal inconsistency. VRID = `%p1%`
Inconsistency code = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32

BGP.VPNMgr.FailOvrIfInfoMstrJoin

Description

BVMs master join to an I3 stub is failing over. There will be a pause in send/receive processing until the join is reconnected to a backup instance of the join partner.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVMs master join to an I3 stub is failing over. VRID = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.IfInfoMstrJoinFail

Description

BVMs master join to an I3 stub has failed. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVMs master join to an I3 stub has failed. VRID = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.IfInfoMstrJoinNoSlave

Description

BVM has no slave entity available for the master join to an I3 stub. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVM has no slave entity available for the master join to an I3 stub. VRID = %p1%

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.IfInfoSlaveRfusMstrJoin

Description

An I3 slave entity has refused the master join to BVM. No data will flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

An I3 slave entity has refused the master join to BVM. VRID = %p1%

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.DeactvIfInfoMstrJoinOK

Description

BVMs Master Join to an I3 stub has been deactivated normally. No more data can flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVMs Master Join to an I3 stub has been deactivated normally. VRID = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.FailOvrLblMgrMstrJoin

Description

VPN Manager's master join to LMGR is failing over. VPN Manager will deactivate and reactivate itself.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

VPN Manager's master join to LMGR is failing over; VPN Manager will deactivate and then reactivate. VPN Manager entity index = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.LblMgrMstrJoinFail

Description

VPN Manager's master join to LMGR has failed. VPN Manager will deactivate and reactivate itself.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

VPN Manager's master join to LMGR has failed; VPN Manager will deactivate and then reactivate. VRID = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.LblMgrMstrJoinNoSlave

Description

BVM has no slave entity available for the master join to LMGR. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVM has no slave entity available for the master join to LMGR. VRID = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.LblMgrSlaveRfusMstrJoin

Description

An LMGR slave entity has refused the master join to BVM. No data will flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

An LMGR slave entity has refused the master join to BVM. VRID = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.DeactvLblMgrMstrJoinOK

Description

BVMs Master Join to LMGR has been deactivated normally. No more data can flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVMs Master Join to LMGR has been deactivated normally. VRID = `%p1%`

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.FailOvrRtMgrMstrJoin

Description

BVMs master join to an RTM is failing over. There will be a pause in send/receive processing until the join is reconnected to a backup instance of the join partner.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVMs master join to an RTM is failing over. VRID = `%p1%` RTM entity index = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt32

BGP.VPNMgr.RtMgrMstrJoinFail

Description

BVMs master join to an RTM has failed. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVMs master join to an RTM has failed. VRID = %p1% RTM entity index = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	sInt32

BGP.VPNMgr.RtMgrMstrJoinNoSlave

Description

BVM has no slave entity available for the master join to an RTM. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVM has no slave entity available for the master join to an RTM. VRID = %p1% RTM entity index = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	sInt32

BGP.VPNMgr.RtMgrSlaveRfusMstrJoin

Description

An RTM slave entity has refused the master join to BVM. No data will flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

An RTM slave entity has refused the master join to BVM. VRID = `%p1%` RTM entity index = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt32

BGP.VPNMgr.DeactvRtMgrMstrJoinOK

Description

BVMs Master Join to an RTM has been deactivated normally. No more data can flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVMs Master Join to an RTM has been deactivated normally. VRID = `%p1%` RTM entity index = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt32

BGP.VPNMgr.InvPrtnrJoinRtProtoIf

Description

An invalid partner has attempted to join to BVM over the Routing Protocol Interface. Only a BGP instance using VPN routes will be accepted.

Remedy

Check the configuration of each master entity.

Severity

Error

Message Text

An invalid partner has attempted to join to BVM over the Routing Protocol Interface. VRID = `%p1%` Protocol Type = `%p2%` Address type = `%p3%` Address subtype = `%p4%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32
p3	uInt8
p4	uInt8

BGP.VPNMgr.RfusBGPInstcJoin

Description

BVM has refused a join from a BGP instance because it is not active or already has another join. Only a single BGP join will be accepted.

Remedy

Check the configuration of each BGP entity.

Severity

Error

Message Text

BVM has refused a join from a BGP instance because it is not active or already has another join. VRID = %p1% BGP Join status = %p2% BVM Admin Status = %p3%

Message Parameters

Name	Type
p1	sInt32
p2	xInt32
p3	uInt8

BGP.VPNMgr.FailOvrBGPSlaveJoin

Description

BVMs slave join to a BGP is failing over. There will be a pause in send/receive processing until the join is reconnected to a backup instance of the join partner.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVMs slave join to a BGP is failing over. VRID = %p1% BGP Process ID = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

BGP.VPNMgr.BGPSlaveJoinFail

Description

BVMs slave join to BGP has failed. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVMs slave join to BGP has failed. VRID = `%p1%` BGP Process ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

BGP.VPNMgr.DeactvBGPSlaveJoinOK

Description

BVMs slave join to BGP has been deactivated normally. No more data can flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVMs slave join to BGP has been deactivated normally. VRID = `%p1%` BGP Process ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

BGP.VPNMgr.ActvFSMStateChg

Description

There has been a change in state of the BGP VPN Manager Activation FSM.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

There has been a change in state of the BGP VPN Manager Activation FSM VRID = `%p1%` Input = `%p2%` Old State = `%p3%` New State = `%p4%` Action = `%p5%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt8
p3	uInt8
p4	uInt8
p5	uInt8

BGP.VPNMgr.ActvFSMStateCflct

Description

The BGP VPN Manager Activation FSM is in an inconsistent state. BVM will terminate.

Remedy

Gather diagnostics and contact support personnel.

Severity

Error

Message Text

The BGP VPN Manager Activation FSM is in an inconsistent state. VRID = %p1% Input = %p2% Old State = %p3% Action = %p4%

Message Parameters

Name	Type
p1	sInt32
p2	uInt8
p3	uInt8
p4	uInt8

BGP.VPNMgr.AddJoinLMGRFail

Description

BVM has failed to add a join to LMGR. Route redistribution will not be possible.

Remedy

Free resources and try again.

Severity

Error

Message Text

BVM has failed to add a join to LMGR. VRID = %p1%

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.AddJoinIfInfoFail

Description

BVM has failed to add a join to I3. Route redistribution will not be possible.

Remedy

Free resources and try again.

Severity

Error

Message Text

BVM has failed to add a join to I3. VRID = %p1%

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.CreatOK

Description

The Protocol VPN Manager has been created successfully.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

The Protocol VPN Manager has been created successfully. Process ID = %p1% VRID = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	sInt32

BGP.VPNMgr.ActvRowSameRtMgrIndx

Description

An attempt was made to activate a BVM VRF row which has the same RTM entity index as an existing active row. The VRF will not be activated.

Remedy

Ensure the RTM entity index is unique and try again.

Severity

Error

Message Text

An attempt was made to activate a BVM VRF row which has the same RTM entity index as an existing active row. VRID = `%p1%` RTM entity index = `%p2%` Failed VRF name = `%p3%` Existing VRF name = `%p4%`

Message Parameters

Name	Type
p1	xInt32
p2	uInt32
p3	CharByteArray
p4	CharByteArray

BGP.VPNMgr.RtTrgtRowRefUncfgVRFRow

Description

A MIB request was received for a BVM VRF route target row which refers to an un-configured VRF row. The MIB request failed.

Remedy

Ensure the VRF is valid, then repeat the request.

Severity

Error

Message Text

A MIB request was received for a BVM VRF route target row which refers to an un-configured VRF row. VRID = %p1% VRF name = %p2% RT index = %p3% RT type = %p4%

Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	xInt32
p4	xInt32

BGP.VPNMgr.AddJoinVRFFail

Description

BVM has failed to add a join for a VRF. Route redistribution for this VRF will not be possible.

Remedy

Free resources and try again.

Severity

Error

Message Text

BVM has failed to add a join for a VRF. VRID = %p1% VRF Name = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	CharByteArray

BGP.VPNMgr.InstAdvertTunlRsrcFail

Description

A tunnel advertised by I3 could not be installed into BVM due to insufficient resources. This tunnel will not be used for BGP VPN traffic.

Remedy

Free resources. BVM will reattempt the operation shortly.

Severity

Error

Message Text

A tunnel advertised by I3 could not be installed into BVM due to insufficient resources. VRID = `%p1%` Tunnel IF index = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	xInt32

BGP.VPNMgr.AddTunlFail

Description

TNL manager was unable to allocate memory for a TNL CB. This tunnel will not be used for BGP VPN traffic.

Remedy

Free resources. BVM will reattempt the operation shortly.

Severity

Debug-Summary

Message Text

TNL manager has failed to add a new tunnel. VRID = `%p1%` Tunnel IF index = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	xInt32

BGP.VPNMgr.LblProcStateCflct

Description

The Label Processing FSM is in an inconsistent state. BVM will terminate.

Remedy

Gather diagnostics and contact support personnel.

Severity

Error

Message Text

The Label Processing is in an inconsistent state. VRID = `%p1%` Input = `%p2%` Old State = `%p3%` Action = `%p4%`

Message Parameters

Name	Type
p1	xInt32
p2	xInt8
p3	xInt8
p4	xInt8

BGP.VPNMgr.AllocMemRVXCntnFail

Description

Failed to get memory for RVX container. The operation causing this allocation will fail, and may back up input to BVM.

Remedy

Free resources.

Severity

Debug-Summary

Message Text

Failed to get memory for RVX container. VRID = %p1%

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.AllocMemRVCntnFail

Description

Failed to get memory for RV container. The operation causing this allocation will fail, and may back up input to BVM.

Remedy

Free resources.

Severity

Debug-Summary

Message Text

Failed to get memory for RV container. VRID = %p1%

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.AllocMemNewRtFail

Description

Failed to get memory for new route. The routes buffer will be queued and retried later.

Remedy

Free resources. Wait for BVM to retry.

Severity

Debug-Summary

Message Text

Failed to get memory for new route. VRID = %p1% Route Size = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

BGP.VPNMgr.RecvBGPRtNoRtTrgt

Description

BVM has received a route from BGP with no Route Targets attached. The route will be ignored.

Remedy

Check network configuration.

Severity

Warning

Message Text

BVM has received a route from BGP with no Route Targets attached. VRID = %p1% Route Entry = %p2% Route address = %p3%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	HexByteArray

BGP.VPNMgr.RecvBGPWthdrRtNotFnd

Description

BVM has received a withdraw from BGP for a route it does not know about. The route will be ignored.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

BVM has received a withdraw from BGP for a route it does not know about. VRID = `%p1%` Route Entry = `%p2%` Route address = `%p3%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	HexByteArray

BGP.VPNMgr.RecvVRFRtRsrcFail

Description

A route received from a VRF could not be processed due to a resource failure. The route will be queued and retried later.

Remedy

Free resources and wait for BVM to retry.

Severity

Error

Message Text

A route received from a VRF could not be processed due to a resource failure. VRID = %p1% VRF name = %p2% Route Entry = %p3% Route address = %p4%

Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	uInt32
p4	HexByteArray

BGP.VPNMgr.RecvVRFWthdrRtNotFnd

Description

BVM has received a withdraw a VRF for a route it does not know. The route will be ignored.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

BVM has received a withdraw from a VRF for a route it does not know. VRID = %p1% VRF name = %p2% Route Entry = %p3% Route address = %p4%

Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	uInt32
p4	HexByteArray

BGP.VPNMgr.RtProcRVFSMStateCflct

Description

The Route Processing RV FSM is in an inconsistent state. BVM will terminate.

Remedy

Gather diagnostics and contact support personnel.

Severity

Error

Message Text

The Route Processing RV FSM is in an inconsistent state. VRID = `%p1%` Input = `%p2%` Old State = `%p3%` Action = `%p4%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt8
p3	sInt8
p4	sInt8

BGP.VPNMgr.RtProcRVXFSMStateCflct

Description

The Route Processing RVX FSM is in an inconsistent state. BVM will terminate.

Remedy

Gather diagnostics and contact support personnel.

Severity

Error

Message Text

The Route Processing RVX FSM is in an inconsistent state. VRID = %p1% Input = %p2% Old State = %p3% Action = %p4%

Message Parameters

Name	Type
p1	sInt32
p2	sInt8
p3	sInt8
p4	sInt8

BGP.VPNMgr.EstbXCLblLSPFail

Description

An attempt to establish an XC between a label and an LSP failed. The LSP will not be used to carry the route traffic until an XC is established. If no XCs exist for the label, then the route will not be advertised.

Remedy

None. Protocol will retry the operation.

Severity

Error

Message Text

An attempt to establish an XC between a label and an LSP failed. VRID = %p1% BGP label = %p2% BGP label type = %p3% LSP virtual IF index = %p4%

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt8
p4	xInt32

BGP.VPNMgr.EstbXCLblLSPOK

Description

An attempt to establish an XC between a label and an LSP succeeded. The LSP may now be used to carry route traffic.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

An attempt to establish an XC between a label and an LSP succeeded. VRID = `%p1%` BGP label = `%p2%` BGP label type = `%p3%` LSP virtual IF index = `%p4%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt8
p4	xInt32

BGP.VPNMgr.AllocMemPECBFail

Description

Memory could not be allocated for a PE control block. The tunnel or label that needs the control block is not created.

Remedy

None. The operation will be retried after a short delay.

Severity

Debug-Summary

Message Text

Memory could not be allocated for a PE control block. VRID = %p1% PE address = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray

BGP.VPNMgr.InitXCCBFail

Description

An XC control block could not be created due to lack of resources. The XC is not created.

Remedy

None. The operation will be retried after a short delay.

Severity

Debug-Summary

Message Text

An XC control block could not be initialized. VRID = %p1% XC label = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray

BGP.VPNMgr.ProcBGPRtRsrcFail

Description

A route received from BGP could not be processed due to a resource failure. The route will be queued and retried later.

Remedy

No action required - Informational message only. Operation will be re-tried immediately.

Severity

Info

Message Text

A route received from BGP could not be processed due to a resource failure. VRID = `%p1%` Route Entry ID = `%p2%` Route address = `%p3%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	HexByteArray

BGP.VPNMgr.RecvRmtRtPeerNoActvTunl

Description

A remote route has been received from a peer for which no active tunnels are available. The route cannot be reached until an active tunnel is added.

Remedy

Ensure that an active tunnel to the peer is configured.

Severity

Warning

Message Text

A remote route has been received from a peer for which no active tunnels are available. VRID = `%p1%` Peer address = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray

BGP.VPNMgr.ActvTunlAllowPEAvail

Description

A tunnel has been activated allowing a PE to become available once more. Routes to this PE are reachable again.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A tunnel has been activated allowing a PE to become available once more. VRID = `%p1%` Peer address = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray

BGP.VPNMgr.RecvRmtRtBOSFlgNotSet

Description

A remote route has been received with a BGP label whose 'bottom of stack' flag is not set. The route is processed normally, but it is possible that the other end is sending invalid labels.

Remedy

Ensure that that remote peer sets the BGP label correctly.

Severity

Warning

Message Text

A remote route has been received with a BGP label whose 'bottom of stack' flag is not set. VRID = `%p1%` Peer address = `%p2%` Remote route NLRI = `%p3%`

Message Parameters

Name	Type
p1	sInt32
p2	VarFmtByteArray
p3	VarFmtByteArray

BGP.VPNMgr.RmtRtUnavailNoActvTunl

Description

Some remote routes have become unavailable because there are no longer any active tunnels serving the originating peer. The routes cannot be reached until an active tunnel is added.

Remedy

Ensure that an active tunnel to the peer is configured.

Severity

Warning

Message Text

Some remote routes have become unavailable because there are no longer any active tunnels serving the originating peer. VRID = `%p1%` Peer address = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray

BGP.VPNMgr.RecvRtWithRtTrgtFmCE

Description

A route with Route Targets attached has been received from a CE. The RTs will be discarded and the route will be distributed with the export RTs configured for the VRF.

Remedy

Ensure that the CE does not send with routes with Route Targets attached.

Severity

Warning

Message Text

A route with Route Targets attached has been received from a CE. VRID = `%p1%` VRF name = `%p2%` Route address length = `%p3%` Route address = `%p4%`

Message Parameters

Name	Type
p1	sInt32
p2	CharByteArray
p3	uInt8
p4	VarFmtByteArray

BGP.VPNMgr.CfgRtTrgtSameValSameVRF

Description

An attempt to configure a Route Target with a value that is identical to another Route Target in the same VRF was made. The Route Target configuration is rejected. Only one Route Target of a given type may be configured in the same VRF.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

An attempt to configure a Route Target with a value that is identical to another Route Target in the same VRF was made. VRID = %p1% VRF name = %p2% Route Target index = %p3% Clashing Route Target index = %p4%

Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	xInt32
p4	xInt32

BGP.VPNMgr.CfgRtTrgtInvVal

Description

An attempt to configure a Route Target with an invalid value was made. THe second byte of a Route Target extended community must be 0x02. The Route Target configuration is rejected.

Remedy

Set the value to a valid Route Target value.

Severity

Error

Message Text

An attempt to configure a Route Target with an invalid value was made. The second byte of a Route Target extended community must be 0x02. VRID = %p1% Route Target index = %p2% Route Target value = %p3%

Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	HexByteArray

BGP.VPNMgr.RecvRtEntNonZeroRtDstng

Description

A route was received over an RPI with a non-zero value in the route distinguisher field in the BGP protocol specific info. The value of the route distinguisher in the BGP protocol specific info is ignored. There is no change to processing.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BVM has received a route entry from a partner over an RPI with a non-zero value for the route distinguisher field in the BGP protocol specific information attached. VRID = `%p1%` Join type = `%p2%` Join index = `%p3%` Route entry ID = `%p4%` Route distinguisher value = `%p5%`

Message Parameters

Name	Type
p1	sInt32
p2	String
p3	uInt32
p4	uInt32
p5	HexByteArray

BGP.VPNMgr.AllocMemUserDataCBFail

Description

Failed to get memory for QVB_USER_DATA_CB. The operation causing this allocation will fail, and may back up input to BVM.

Remedy

Free resources.

Severity

Debug-Summary

Message Text

Failed to get memory for QVB_USER DATA_CB. VRID = %p1% Route entry ID = %p2% User Data Length = %p3%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32

BGP.VPNMgr.ChgUserDataCB

Description

User Data CB altered. This log occurs when a QVB_USER_DATA_CB is created or destroyed and when the reference count in the CB is changed. None. This log is for information only.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

User data control block altered. VRID = %p1% User Data CB = %p2% Action = %p3% Post action ref count = %p4%

Message Parameters

Name	Type
p1	sInt32
p2	Ptr

Name	Type
p3	String
p4	uInt32

BGP.VPNMgr.RtMgrMstrJoinRstrtAbnd

Description

BVMs master join to an RTM has failed and restart processing has been abandoned. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

BVMs master join to an RTM has failed and restart processing has been abandoned. VRID = `%p1%` RTM entity index = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt32

BGP.VPNMgr.BGPMstrJoinFail

Description

BVMs slave join to BGP has failed and restart processing has been abandoned. There will be a pause in send/receive processing until the join is restarted to a new master instance.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

BVMs master join to BGP has failed and restart processing has been abandoned. VRID = %p1% BGP Process ID = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

BGP.VPNMgr.RtMgrRstrtMstrJoinTmout

Description

BVMs master join to an RTM has not restarted within the configured timeout period. This VRF instance will move to OperStatus ActFailed.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

BVMs master join to an RTM has not restarted within the configured timeout period. VRID = %p1% RTM entity index = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	sInt32

BGP.VPNMgr.BPGRstrtMstrJoinTmout

Description

BVMs slave join to BGP has not restarted within the configured timeout period. The product will move to OperStatus ActFailed.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

BVMs master join to BGP has not restarted within the configured timeout period. VRID = `%p1%` BGP Process ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

BGP.VPNMgr.BGPInitAdt

Description

BGP has initiated auditing. Any stale routes will be removed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

BGP has initiated auditing. VRID = `%p1%` BGP Process ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

BGP.VPNMgr.RecvOKRegRspnsVRFRtMgr

Description

A successful registration response was received from a VRF RTM instance. Nothing

Remedy

No action required - Informational message only.

Severity

Info

Message Text

BVM has received a successful registration response from a VRF RTM instance. VRID = `%p1%` VRF name = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray

BGP.VPNMgr.RcvryProcTmoutBefRtRecv

Description

Recovery of BVM has timed out before all routes were received from RTM instances and from BGP. Some routes may flap.

Remedy

Increase the length of the BVM recovery timer.

Severity

Warning

Message Text

BVM has timed out recovery processing before all routes have been received from the VRF RTM instances and from BGP VRID = %p1%

Message Parameters

Name	Type
p1	sInt32

BGP.VPNMgr.SetTimerGtrRcvryTimer

Description

A MIB TEST/SET was attempted which would cause the length of at least one of the VRF/BGP restart timers to be greater than the BVM recover timer. Rejection of MIB IPS.

Remedy

Ensure length of BVM recovery timer is greater than that of all the join restart timers.

Severity

Error

Message Text

Attempt has been made to set a recovery/restart timer such that the length of one of the VRF/BGP restart timers is greater than the BVM recovery timer. MIB Family ID = %p1% MIB Family Name = %p2% MIB Field ID = %p3% MIB Field Name = %p4% MIB Field Value = %p5%

Message Parameters

Name	Type
p1	xInt32
p2	String
p3	xInt32
p4	String
p5	uInt32

BGP.VPNMgr.RecvRtDupRtTrgt

Description

A route has been received with duplicate RTs attached. One of the duplicate RTs will be deleted.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

BVM has received a route with duplicate RTs attached. VRID = `%p1%` Route Target value = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	HexByteArray

BGP.VPNMgr.AllocMemASPathCBFail

Description

Failed to get memory for QVB_AS_PATH_CB. The operation causing this allocation will fail, and may back up input to BVM.

Remedy

Free resources.

Severity

Debug-Summary

Message Text

Failed to get memory for QVB_AS_PATH_CB. VRID = %p1% Route entry ID = %p2% AS path Length = %p3%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32

BGP.VPNMgr.ChgASPathCB

Description

AS path CB altered. This log occurs when a QVB_AS_PATH_CB is created or destroyed and when the reference count in the CB is changed. None. This log is for information only.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

AS path control block altered. VRID = %p1% AS path CB = %p2% Action = %p3% Post action ref count = %p4%

Message Parameters

Name	Type
p1	sInt32
p2	Ptr
p3	String
p4	uInt32

BGP.VPNMgr.RecvRtEntMultiNH

Description

Protocol has received a route entry from Protocol containing more than one next hop. It is possible that this is due to Protocol's ECMP feature being mis-configured. Protocol will ignore all but the first of the next hops in the route entry.

Remedy

Check configuration of Protocol's ECMP feature.

Severity

Error

Message Text

Multiple next hops received on a route entry from Protocol VRID = `%p1%` Number of next hops received = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	uInt32

BGP.VPNMgr.CfgNoRtMgrAddrSuprtTyp

Description

An attempt was made to set a configuration without an RTM configured to handle addresses of a supported type. The MIB TEST will be rejected.

Remedy

Disable the VPN route address type.

Severity

Error

Message Text

An attempt was made to set a configuration without an RTM configured to handle addresses of a supported type. VRID = %p1% VPN IPv4 Address family enabled? = %p2% RTM entity index for IPv4 = %p3% VPN IPv6 address family enabled? = %p4% RTM entity index for IPv6 = %p5%

Message Parameters

Name	Type
p1	xInt32
p2	sInt
p3	xInt32
p4	sInt
p5	xInt32

BGP.VPNMgr.AddVRFRtMgrRsrcFail

Description

Protocol has been unable to add a VRF RTM join due to resource failure. The MIB TEST will fail.

Remedy

Free resources and retry.

Severity

Debug-Summary

Message Text

Protocol has been unable to add a VRF RTM join due to resource failure. VRID = %p1% VRF name = %p2% RTM address type = %p3%

Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	uInt32

BGP.VPNMgr.AllocMemNtfnBufPoolFail

Description

Failed to get memory for Notification Buffer Pool for an RTM join. The operation causing this allocation will fail. The MIB TEST which resulted in the allocation attempt will fail.

Remedy

Free resources.

Severity

Debug-Summary

Message Text

Failed to get memory for a notification buffer pool for an RTM join. VRID = `%p1%` VRF name = `%p2%` RTM address type = `%p3%`

Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	uInt32

BGP.VPNMgr.PrtnrAddrTypeUnsuprt

Description

A partner has attempted to join to BVM over the Routing Protocol Interface, but its address type is not supported by this instance of BVM. Only a BGP instance using VPN routes will be accepted.

Remedy

Check the configuration of each master entity.

Severity

Error

Message Text

A partner has attempted to join to BVM over the Routing Protocol Interface, but its address type is not supported by this instance of BVM VRID = %p1% BVM supports IPv4 VPN routes? = %p2% BVM supports IPv6 VPN routes? = %p3% Address type = %p4% Address subtype = %p5%

Message Parameters

Name	Type
p1	sInt32
p2	sInt
p3	sInt
p4	uInt8
p5	uInt8

BGP.VPNMgr.AllocMemLblCBFail

Description

Memory could not be allocated for a label control block. A newly learnt route has not been processed.

Remedy

Free resources, the route processing will be attempted again after a short delay.

Severity

Debug-Summary

Message Text

Memory could not be allocated for a label control block. VRID = %p1%

Message Parameters

Name	Type
p1	xInt32

BGP.VPNMgr.RecvRmtRtWthdr

Description

A remote route has been received which is currently in the process of being withdrawn. The remote route will be queued and processed when the resource timer pops.

Remedy

No action required - Informational message only.

Severity

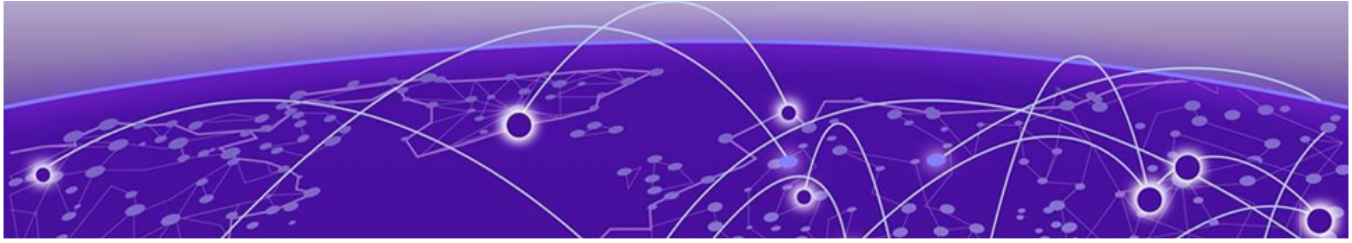
Debug-Summary

Message Text

A remote route has been received which is currently in the process of being withdrawn. VRID = `%p1%` Route destination address = `%p2%` Route next hop address = `%p3%`

Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray
p3	VarFmtByteArray



BOOTP Messages

BOOTP.RxReqPkt on page 434
BOOTP.RxReqPktDump on page 435
BOOTP.ChkLpbkIfFail on page 435
BOOTP.RxPktL3VPN on page 436
BOOTP.RxPktL3VPNDump on page 437

BOOTP.RxReqPkt

Description

When enabled this message will be logged for every packet received by the bootprelay or dhcp-server service.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Received `%bytes%` bytes BOOTP/DHCP packet on VLAN `%vlan%`, port `%port%`, from `%fip%` sent to `%tip%` for client with MAC address `%ciaddr%`.

Message Parameters

Name	Type
bytes	uInt
vlan	VLAN
fip	srcSockAddr
tip	dstSockAddr

Name	Type
port	ingressSlotPort
ciaddr	MAC

BOOTP.RxReqPktDump

Description

When enabled this message will be logged for every packet received by the bootprelay or dhcp-server service.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Received `%bytes%` bytes BOOTP/DHCP packet on VLAN `%vlan%`, port `%port%`, from `%fip%` sent to `%tip%` for client with MAC address `%ciaddr%`.

Message Parameters

Name	Type
bytes	uInt
vlan	VLAN
fip	srcSockAddr
tip	dstSockAddr
port	ingressSlotPort
ciaddr	MAC
buffer	Buf-ptr
bufferLen	Buf-len

BOOTP.ChkLpbkIfFail

Description

This message will be logged when check to see if interface is loopback fails.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Loopback interface check failed. VRID `%vrid%`, IfIndex `%ifindex%`, Errno `%ErrorNo%`

Message Parameters

Name	Type
vrid	sInt
ifindex	sInt
ErrorNo	sInt

BOOTP.RxPktL3VPN

Description

When enabled this mesage will be logged when Bootp relay packets are received on MPLS Network Interface.

Remedy

No action required. Informational message only.

Severity

Debug-Verbose

Message Text

Received `%bytes%` bytes BOOTP/DHCP packet on MPLS Network Interface, port `%port%`, from `%fip%` sent to `%tip%` in VRF `%vrf%` for client with MAC address `%ciaddr%`.

Message Parameters

Name	Type
bytes	uInt
fip	srcSockAddr

Name	Type
tip	dstSockAddr
port	ingressSlotPort
ciaddr	MAC
vrf	VRF

BOOTP.RxPktL3VPNDump

Description

When enabled this message will be logged for every packet received on MPLS network interface.

Remedy

No action required. Informational message only.

Severity

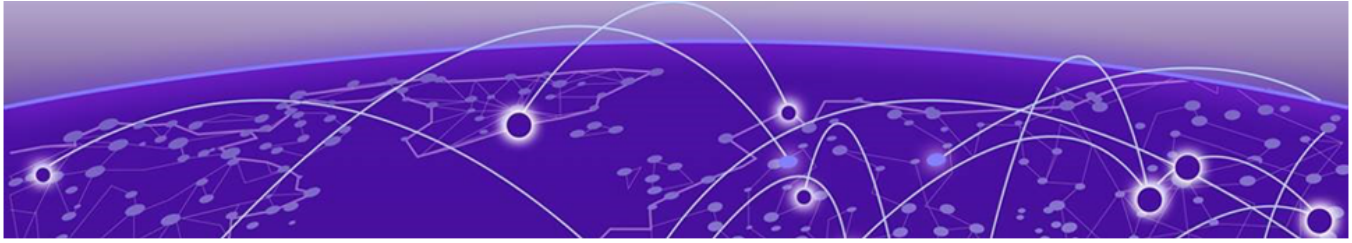
Debug-Data

Message Text

Received `%bytes%` bytes BOOTP/DHCP packet on MPLS Network Interface, port `%port%`, from `%fip%` sent to `%tip%` in VRF `%vrf%` for client with MAC address `%ciaddr%`.

Message Parameters

Name	Type
bytes	uInt
fip	srcSockAddr
tip	dstSockAddr
port	ingressSlotPort
ciaddr	MAC
vrf	VRF
buffer	Buf-ptr
bufferLen	Buf-len



BOOTP.Client Messages

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BOOTP.Client.RxEvent on page 439
BOOTP.Client.AllocNetRsrcFail on page 440
BOOTP.Client.RxReply on page 440
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BOOTP.Client.AssgnVLANIPAddr on page 443
BOOTP.Client.RemVLANIPAddr on page 444
BOOTP.Client.SendCkptData on page 444
BOOTP.Client.RecvCkptData on page 445
BOOTP.Client.AutoPrvsnEnbl on page 445
BOOTP.Client.AutoPrvsnDone on page 445
BOOTP.Client.AutoPrvsnTFTPUnrch on page 446
BOOTP.Client.AutoPrvsnFileNameInv on page 446
BOOTP.Client.AutoPrvsnReadNVRAMFail on page 447
BOOTP.Client.AutoPrvsnWritNVRAMFail on page 447
BOOTP.Client.AutoPrvsnOpenFileFail on page 448
BOOTP.Client.AutoPrvsnDHCPUnrch on page 448
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BOOTP.Client.AutoPrvsnVLANIPAlrdyCfg on page 450

BOOTP.Client.RxEventVLANInv

Description

An event for a vlan instance occured, but the VLAN instance does not longer exist.

Remedy

This message is there for debug purposes, and should only be enabled and monitored on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Event number `%event%` occured on deleted VLAN interface instance `%vlanIfInstance%` with state `%status%`

Message Parameters

Name	Type
vlanIfInstance	uInt32
event	uInt
status	uInt

BOOTP.Client.RxEvent

Description

This message will show all events processed by the Dhcp Client module.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Summary

Message Text

Received event `%event%` on VLAN `%vlan%`, old status is `%oldStatus%`, new status is `%newStatus%`

Message Parameters

Name	Type
vlan	VLAN
event	uInt
oldStatus	uInt
newStatus	uInt

BOOTP.Client.AllocNetRsrcFail

Description

Can't allocate network resources to received and send DHCP/BOOTP client related packets.

Remedy

If this happens try to disable and enable the vlan that reports this error. If the problem is consistent try restarting netTools and get in touch with Extreme Networks Technical Support.

Severity

Error

Message Text

DHCP/BOOTP Client failed to allocate network resources for vlan `%vlan%`; `%reason%`

Message Parameters

Name	Type
vlan	VLAN
reason	String

BOOTP.Client.RxReply

Description

This message can be used to trace all incomming BOOTP/DHCP packets for the DHCP Client module.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Summary

Message Text

Received DHCP/BOOTP reply on vlan instance `%vlan%`, from `%srvIP%`, type `%opcode%`, length `%len%`.

Message Parameters

Name	Type
vlan	uInt32
opcode	uInt
len	uInt
srvIP	IP

BOOTP.Client.RxReplyDump

Description

This message can be used to trace all incomming BOOTP/DHCP packets for the DHCP Client module.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Data

Message Text

Received DHCP/BOOTP reply on vlan instance `%vlan%`, from `%srvIP%`, type `%opcode%`, length `%len%`.

Message Parameters

Name	Type
vlan	uInt32
opcode	uInt
len	uInt
srvIP	IP
buff	Buf-ptr
bufflen	Buf-len

BOOTP.Client.RxBOOTPAddrInv

Description

The specified BOOTP server supplied an invalid IP address to the mentioned VLAN.

Remedy

Check your bootp server to make sure a valid IP address is assigned to the switch.

Severity

Error

Message Text

Received invalid IP address `%ip%` for VLAN `%vlan%` from BOOTP server `%srcIP%`

Message Parameters

Name	Type
vlan	VLAN
ip	IP
srcIP	srcIP

BOOTP.Client.RxAddrInuse

Description

The specified BOOTP/DHCP server supplied an IP address that's already in use on the network.

Remedy

Check your BOOTP server to make sure the IP address supplied is not used by any other network device. Check the switch it's ARP table to find the current user of the IP address.

Severity

Error

Message Text

Received IP address `%ip%` for VLAN `%vlan%` from BOOTP/DHCP server `%srvIP%` that's already in use by `%mac%`

Message Parameters

Name	Type
vlan	VLAN
ip	IP
srvIP	IP
mac	MAC

BOOTP.Client.AssgnVLANIPAddr

Description

The IP address learned from a BOOTP/DHCP server was assigned to the specified VLAN.

Remedy

This is an informational message.

Severity

Info

Message Text

Learned IP Address `%ip%` `%mask%` configured on VLAN `%vlan%`. Default gateway learned `%gw%`

Message Parameters

Name	Type
vlan	VLAN
ip	IP
mask	IPmaskval
gw	IP

BOOTP.Client.RemVLANIPAddr

Description

The IP address learned from a DHCP/BOOTP server was removed from the specified VLAN.

Remedy

This happens when the BOOTP/DHCP client gets disabled, or the DHCP lease has expired.

Severity

Info

Message Text

Learned IP Address `%ip%` removed from VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
ip	IP

BOOTP.Client.SendCkptData

Description

DHCP Client Checkpointing Data was sent from master to backup node

Remedy

NA

Severity

Debug-Summary

Message Text

DHCP Client Checkpointing Data was sent from master to backup node

BOOTP.Client.RecvCkptData

Description

DHCP Client Checkpointing Data was received on backup from master node

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

DHCP Client Checkpointing Data was received on backup from master node

BOOTP.Client.AutoPrvsnEnbl

Description

Auto-Provision is enabled on the switch and will start in 15 seconds. Kindly do not perform any manual configuration.

Remedy

No action required - Notification message only

Severity

Notice

Message Text

Auto-Provision is enabled on the switch.

BOOTP.Client.AutoPrvsnDone

Description

Auto-Provision completed successfully. The switch will reboot in one minute.

Remedy

No action required - Notification message only

Severity

Info

Message Text

Auto-Provision has completed successfully.

BOOTP.Client.AutoPrvsnTFTPUnrch

Description

Auto-Provision failed due to TFTP server unreachable. The switch will retry after few seconds, Kindly check the DHCP server configuration.

Remedy

Configure DHCP server with correct TFTP IP address.

Severity

Error

Message Text

The TFTP server `%tftpip%` is unreachable.

Message Parameters

Name	Type
tftpip	String

BOOTP.Client.AutoPrvsnFileNameInv

Description

Auto-Provision failed due to invalid file extension. The switch will retry after few seconds, Kindly check the DHCP server configuration.

Remedy

Configure the DHCP server with correct file name.

Severity

Error

Message Text

An Invalid file name (`%file%`) was received from TFTP server (`%tftpip%`).

Message Parameters

Name	Type
file	String
tftpip	String

BOOTP.Client.AutoPrvsnReadNVRAMFail

Description

Error while reading Auto-Provision status from NVRAM.

Remedy

This might be becuase of some hardware/system error try reboot and check if this error persists.

Severity

Critical

Message Text

Failed to read the Auto-Provision configuration information from the NVRAM.

BOOTP.Client.AutoPrvsnWritNVRAMFail

Description

Error while writing Auto-Provision status to NVRAM.

Remedy

This might be becuase of some hardware/system error try reboot and check if this error persists.

Severity

Critical

Message Text

Failed to write the Auto-Provision configuration information to the NVRAM.

BOOTP.Client.AutoPrvsnOpenFileFail

Description

Auto-Provision suspended due to fatal error. Unable to open the file.

Remedy

Reboot the system and try to do the Auto-Provision again.

Severity

Critical

Message Text

Failed to open the file (`%file%`).

Message Parameters

Name	Type
file	String

BOOTP.Client.AutoPrvsnDHCPUnrch

Description

The DHCP server is not reachable through the virtual router "VR-Default" or "VR-Mgmt".

Remedy

Check the network connectivity.

Severity

Warning

Message Text

The DHCP Server is unreachable through VR `%vrName%`.

Message Parameters

Name	Type
vrName	String

BOOTP.Client.AutoPrvsnDHCPOpt43Inv

Description

Auto-Provision failed due to invalid option 43 parameters [TFTP Server IP, Config file] received from the DHCP server. The switch will retry after few seconds, Kindly check the DHCP server configuration.

Remedy

Configure the correct option 43 parameters in the DHCP Server.

Severity

Error

Message Text

The DHCP Option 43 parameters received are invalid.

BOOTP.Client.AutoPrvsnFileNotExist

Description

Auto-Provision Failed. Config file does not exist in the TFTP server. The switch will retry after few seconds, Kindly check the DHCP server configuration.

Remedy

Configure the DHCP Server with valid config file.

Severity

Warning

Message Text

The configuration file (`%file%`) does not exist on the TFTP server (`%tftpip%`).

Message Parameters

Name	Type
file	String
tftpip	String

BOOTP.Client.AutoPrvsnVLANIPAlrdyCfg

Description

Auto Provision is enabled on the "Mgmt"/"Default" VLAN only if no IP address is configured on this VLAN.

Remedy

Unconfigure the IP address on this VLAN, and the switch will try to enable Auto Provision on this VLAN during the next retry.

Severity

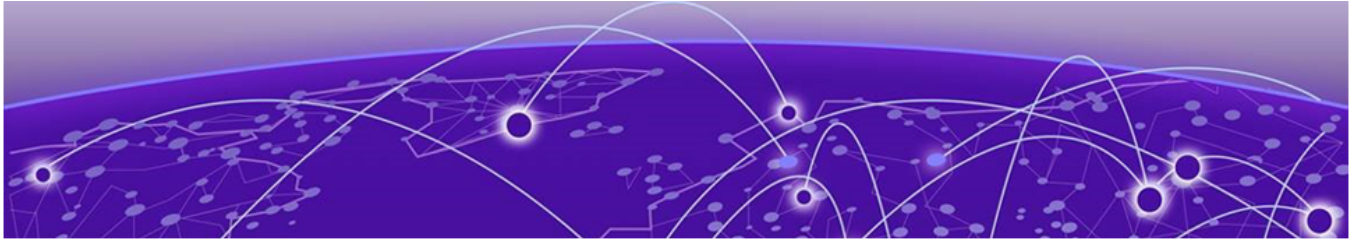
Warning

Message Text

Auto Provision is not enabled on VLAN `%vlan%` because the VLAN IP address is already configured.

Message Parameters

Name	Type
vlan	VLAN



BOOTP.Relay Messages

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BOOTP.Relay.PktReqAct on page 462
BOOTP.Relay.PktReplyChkFail on page 462
BOOTP.Relay.FwdReqDump on page 463
BOOTP.Relay.FwdReplyDump on page 463
BOOTP.Relay.UDPFwdVLAN on page 464
BOOTP.Relay.UDPFwdHost on page 465
BOOTP.Relay.SendCkptData on page 465
BOOTP.Relay.RecvCkptData on page 466
BOOTP.Relay.FwdReqFailDsblVLAN on page 466
BOOTP.Relay.FwdReplyFailDsblVLAN on page 467
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BOOTP.Relay.RxPktOpcodeInv

Description

When enabled this message will be logged for every packet with an invalid BOOTP opcode.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Received BOOTP/DHCP packet with invalid opcode (`%op%`)

Message Parameters

Name	Type
op	uInt8

BOOTP.Relay.RxPktSizInv

Description

When enabled this message will be logged for every packet received that is to small to contain a BOOTP/DHCP packet header.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Received BOOTP/DHCP packet is to small to contain a valid header (`%size%`)

Message Parameters

Name	Type
size	uInt32

BOOTP.Relay.FwdReqFailCfgInv

Description

When enabled this message will be logged for every packet received when no valid bootprelay configuration exists.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Cannot foward BOOTP/DHCP REQUEST received from `%fip%` on VLAN `%vlan%`, as no configuration exists for it

Message Parameters

Name	Type
fip	srcSockAddr
vlan	VLAN

BOOTP.Relay.FwdFailIPInv

Description

When enabled this message will be logged for every packet received on a VLAN with no IP address assigned.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Cannot foward BOOTP/DHCP REQUEST received on VLAN `%vlan%`, as the VLAN has no IP address assigned.

Message Parameters

Name	Type
vlan	VLAN

BOOTP.Relay.FwdFailVLANLpbk

Description

When enabled this message will be logged for every packet received on a VLAN where the mentioned relay agent resides on.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Did not forward BOOTP/DHCP REQUEST to relay agent `%tip%`, as it was on the same VLAN as the sender

Message Parameters

Name	Type
tip	dstSockAddr

BOOTP.Relay.FwdReqOK

Description

When enabled this message will be logged for every BOOTREQUEST packet successfully forwarded.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Forwarded BOOTP/DHCP REQUEST received on VLAN `%vlan%` from `%sip%` to `%dip%`

Message Parameters

Name	Type
vlan	VLAN
sip	srcSockAddr
dip	dstSockAddr

BOOTP.Relay.FwdReqTxIPFail

Description

When enabled this message will be logged for every packet that failed being forwarded to the specified bootprelay agent.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Could not forward BOOTP/DHCP REQUEST received on VLAN `%vlan%` from `%sip%` to `%dip%`; errno `%error%`

Message Parameters

Name	Type
vlan	VLAN
sip	srcSockAddr
dip	dstSockAddr
error	sInt

BOOTP.Relay.FwdReqTxVLANFail

Description

When enabled this message will be logged for every packet that failed being forwarded onto the specified VLAN.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Could not forward BOOTP/DHCP REQUEST received on VLAN `%vlan%` from `%sip%` to VLAN `%dvlan%`; errno `%error%`

Message Parameters

Name	Type
vlan	VLAN
sip	srcSockAddr
dvlan	VLAN
error	sInt

BOOTP.Relay.FwdReplyTxOK

Description

When enabled this message will be logged for every BOOTPREPLY packet successfully forwarded.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Forwarded BOOTP/DHCP REPLY received on VLAN `%vlan%` from `%sip%` to `%dip%` on VLAN `%dvlan%`

Message Parameters

Name	Type
vlan	VLAN
sip	srcSockAddr
dip	dstSockAddr
dvlan	VLAN

BOOTP.Relay.FwdReplyTxFail

Description

When enabled this message will be logged for every packet that failed being forwarded to the specified bootprelay agent.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Could not forward BOOTP/DHCP REPLY received on VLAN `%vlan%` from `%sip%` to `%dip%` on VLAN `%dvlan%`; errno `%error%`

Message Parameters

Name	Type
vlan	VLAN
sip	srcSockAddr
dip	dstSockAddr
dvlan	VLAN
error	sInt

BOOTP.Relay.LkupIfIndxFail

Description

When enabled this message will be logged when a BOOTP/DHCP packet is received but the coresponding VLAN cannot be found.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Cannot locate VLAN based on VRID `%vrid%` and ifindex `%ifindex%`

Message Parameters

Name	Type
vrid	sInt
ifindex	sInt

BOOTP.Relay.FndIfFail

Description

When enabled this message will be logged when a BOOTP/DHCP packet is received but giaddr is not set to be one of our interfaces IP address.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Cannot process BOOTP/DHCP REPLY as giaddr `%ip%` is not configured on one of our local interfaces

Message Parameters

Name	Type
ip	IP

BOOTP.Relay.FwdReplyFailCfgInv

Description

When enabled this message will be logged for every packet received when no valid bootprelay configuration exists.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Cannot forward BOOTP/DHCP REPLY from VLAN `%svlan%` to VLAN `%dvlan%`, as no configuration exists for it.

Message Parameters

Name	Type
svlan	VLAN
dvlan	VLAN

BOOTP.Relay.IPFwdOffRxVLAN

Description

This message will be logged when a BOOTP/DHCP packet arrives on a VLAN that does not have ipforwarding enabled.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Cannot forward BOOTP/DHCP packet received on VLAN `%vlan%` as ipforwarding is disabled.

Message Parameters

Name	Type
vlan	VLAN

BOOTP.Relay.IPFwdOffTxVLAN

Description

This message will be logged when a BOOTP/DHCP packet arrives for a destination VLAN that does not have ipforwarding enabled.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Cannot forward BOOTP/DHCP packet as destination VLAN `%vlan%` has ipforwarding disabled.

Message Parameters

Name	Type
vlan	VLAN

BOOTP.Relay.FwdFailRtInv

Description

When enabled this message will be logged for every packet that needs forwarding to a relay agent that is not reachable trough an ipforwarding enabled VLAN.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Did not forward BOOTP/DHCP REQUEST to relay agent `%tip%`, as ipforwarding is not enabled on VLAN towards destination

Message Parameters

Name	Type
tip	dstSockAddr

BOOTP.Relay.PktReqAct

Description

When enabled this message will be logged for every DHCP option 82 packet that was dropped/kept/replaced.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

The DHCP Request packet with DHCP option 82 is `%action%`.

Message Parameters

Name	Type
action	String

BOOTP.Relay.PktReplyChkFail

Description

The DHCP Reply packet with option 82 failed while checking. The reason is epecified in the error message.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

The DHCP Reply packet with option 82 does not pass checking. Error: `%error%`

Message Parameters

Name	Type
error	String

BOOTP.Relay.FwdReqDump

Description

When enabled, this message will be logged for every BOOTP/DHCP Request received for forwarding.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Forward `%size%` bytes BOOTP/DHCP REQUEST received on VLAN `%vlan%` from `%sip%` to `%dip%`.

Message Parameters

Name	Type
size	uInt
vlan	VLAN
sip	srcSockAddr
dip	dstSockAddr
buffer	Buf-ptr
bufferLen	Buf-len

BOOTP.Relay.FwdReplyDump

Description

When enabled, this message will be logged for every BOOTP/DHCP Reply received for relaying back to the client.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Forward `%size%` bytes BOOTP/DHCP REPLY received on VLAN `%vlan%` from `%sip%` to `%dip%` on VLAN `%dvlan%`.

Message Parameters

Name	Type
size	uInt
vlan	VLAN
sip	srcSockAddr
dip	dstSockAddr
dvlan	VLAN
buffer	Buf-ptr
bufferLen	Buf-len

BOOTP.Relay.UDPFwdVLAN

Description

UDP forwarding is flooding the UDP datagram to a VLAN, as specified in the associated UDP forwarding policy

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

UDP-Fwding: BOOTP/DHCP request packet dport `%dest_port%` flooded to VLAN `%vlan%`

Message Parameters

Name	Type
dest_port	uInt
vlan	String

BOOTP.Relay.UDPFwdHost

Description

Broadcast UDP datagram is being forwarded to an Host, as specified in the associated UDP forwarding profile

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

UDP-Fwding: BOOTP/DHCP request packet dport `%dest_port%` fwded to `%addr%`

Message Parameters

Name	Type
dest_port	uInt
addr	IP

BOOTP.Relay.SendCkptData

Description

DHCP Server Checkpointing Data was sent from master to backup node

Remedy

NA

Severity

Debug-Summary

Message Text

DHCP Server Checkpointing Data was sent from master to backup node

BOOTP.Relay.RecvCkptData

Description

DHCP Server Checkpointing Data was received on backup from master node

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

DHCP Server Checkpointing Data was received on backup from master node

BOOTP.Relay.FwdReqFailDsblVLAN

Description

BOOTP Relay disabled on this VLAN so, Cannot forward BOOTP/DHCP REQUEST Packets to the Relay Agent.

Remedy

Enable BOOTP Relay on this VLAN.

Severity

Debug-Summary

Message Text

Cannot forward BOOTP/DHCP REQUEST from VLAN `%svlan%` to VLAN `%dvlan%`, as BOOTP Relay is disabled for VLAN `%dvlan%`

Message Parameters

Name	Type
svlan	String
dvlan	String

BOOTP.Relay.FwdReplyFailDsblVLAN

Description

BOOTP Relay disabled on this VLAN so, Cannot forward BOOTP/DHCP REPLY Packets to the client.

Remedy

Enable BOOTP Relay on this VLAN.

Severity

Debug-Summary

Message Text

Cannot forward BOOTP/DHCP REPLY from VLAN `%svlan%` to VLAN `%dvlan%`, as BOOTP Relay is disabled for VLAN `%dvlan%`

Message Parameters

Name	Type
svlan	String
dvlan	String

BOOTP.Relay.RxReqDsblVLAN

Description

BOOTP Relay is disabled on received VLAN hence, dropping the BOOTP/DHCP REQUEST packets.

Remedy

Enable BOOTP Relay on this VLAN.

Severity

Debug-Summary

Message Text

Received BOOTP/DHCP REQUEST on BOOTP Relay disabled VLAN `%svlan%`

Message Parameters

Name	Type
svlan	String

BOOTP.Relay.RxReplyDsblVLAN

Description

BOOTP Relay is disabled on received VLAN hence, dropping the BOOTP/DHCP REPLY packets.

Remedy

Enable BOOTP Relay on this VLAN.

Severity

Debug-Summary

Message Text

Received BOOTP/DHCP REPLY on BOOTP Relay disabled VLAN `%svlan%`

Message Parameters

Name	Type
svlan	String

BOOTP.Relay.GiaddrMaxAtmpt

Description

Sequential Include Secondary mode was enabled for BOOTPRELAY and the DHCP Client did not get a response after multiple attempts with the specified IP address as the gateway address.

Remedy

BOOTPRELAY will automactically move on to the next IP address of the client facing VLAN and use it as the gateway address.

Severity

Notice

Message Text

DHCP Client with MAC `%mac%` has already made `%numAttempts%` attempts with `%giaddr%` as gateway address.

Message Parameters

Name	Type
mac	MAC
giaddr	IP
numAttempts	uInt8

BOOTP.Relay.Giaddr

Description

When enabled, this message is logged for every BOOTP/DHCP request that is to be relayed to the server. This message gives information about the gateway address that is being used.

Remedy

This message exists for debug operations. Enable this message only on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

BOOTP/DHCP request received on VLAN %vlan% from Client with MAC %mac% will be forwarded to Server %dip% with %giaddr% as the gateway address.

Message Parameters

Name	Type
vlan	VLAN
mac	MAC
dip	dstSockAddr
giaddr	IP

BOOTP.Relay.IPv6AddrNotCfg

Description

This event occurs when a VLAN has no IPv6 address configured either statically or dynamically through DHCPv6.

Remedy

Check if the VLAN configured as DHCPv6 client has a valid static IPv6 address and DHCPv6 client state has entered "Bound" state using the command "show dhcp-client ipv6 state". If not, configure a static ipv6 address using the command "configure vlan <vlanName> ipaddress <ipv6 address/ prefix length>". Also, it is not recommended to enable DHCPv6 client on a bootp relay enabled VLAN. If the event still occurs, contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

No IPv6 address configured on VLAN %vlan%

Message Parameters

Name	Type
vlan	VLAN

BOOTP.Relay.RxRelayPktInvPort

Description

This event occurs when a DHCPv6 relay packet is received on a non existing port number after unconfiguring the static ipv6 address of the same VLAN.

Remedy

Check if the VLAN configured as DHCPv6 client has a valid static IPv6 address and DHCPv6 client state has entered "Bound" state using the command "show dhcp-client ipv6 state". If not, configure a static ipv6 address using the command "configure vlan <vlanName> ipaddress <ipv6 address/ prefix length>". Also, it is not recommended to enable DHCPv6 client on a bootp relay enabled VLAN. If the event still occurs, contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

DHCPv6 Relay packet for VLAN `%vlan%` received on invalid port `%port%`.

Message Parameters

Name	Type
vlan	VLAN
port	ingressPort

BOOTP.Relay.FwdReplyRxL3VPNOK

Description

When enabled this message will be logged for every BOOTPREPLY packet received MPLS Network interface successfully forwarded.

Remedy

No action requred - Information message only.

Severity

Debug-Summary

Message Text

Forwarded BOOTP/DHCP REPLY received on MPLS Network Interface from `%sip%` to `%dip%` on VLAN `%dvlan%`

Message Parameters

Name	Type
sip	srcSockAddr
dip	dstSockAddr
dvlan	VLAN

BOOTP.Relay.FwdReplyRxL3VPNFail

Description

When enabled this message will be logged for every packet received on MPLS Network Interface that failed being forwarded to the specified bootprelay agent.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Could not forward BOOTP/DHCP REPLY received on MPLS Network Interface from `%sip%` to `%dip%` on VLAN `%dvlan%`; errno `%error%`

Message Parameters

Name	Type
sip	srcSockAddr
dip	dstSockAddr
dvlan	VLAN
error	sInt

BOOTP.Relay.FwdReplyRxL3VPNDump

Description

When enabled, this message will be logged for every BOOTP/DHCP Reply received on MPLS Network Interface for relaying back to the client.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Forward `%size%` bytes BOOTP/DHCP REPLY received on MPLS Network Interface from `%sip%` to `%dip%` on VLAN `%dvlan%`.

Message Parameters

Name	Type
size	uInt
sip	srcSockAddr
dip	dstSockAddr
dvlan	VLAN
buffer	Buf-ptr
bufferLen	Buf-len

BOOTP.Relay.FwdReplyRxL3VPNInvCfg

Description

When enabled this message will be logged for every packet received on MPLS Network Interface when no valid bootprelay configuration exists.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Cannot forward BOOTP/DHCP REPLY from MPLS Network Interface to VLAN `%dvlan%`, as no configuration exists for it.

Message Parameters

Name	Type
dvlan	VLAN

BOOTP.Relay.FwdReplyRxL3VPNVLANDsbl

Description

BOOTP Relay disabled on this VLAN so, Cannot forward BOOTP/DHCP REPLY Packets to the client.

Remedy

No action required - Information message only. Enable BOOTP Relay on this VLAN.

Severity

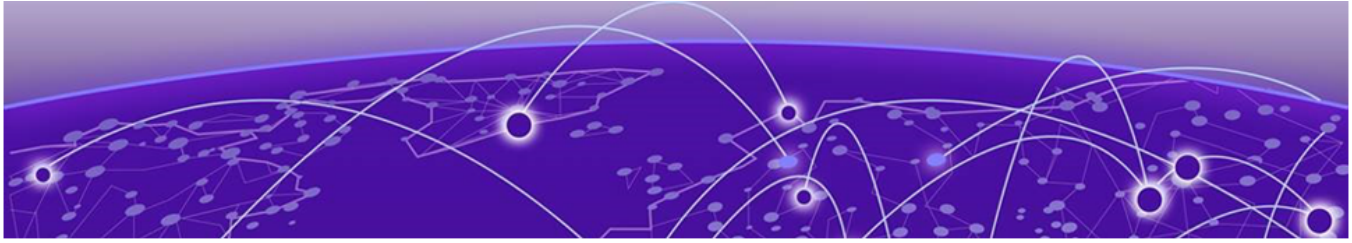
Debug-Summary

Message Text

Cannot forward BOOTP/DHCP REPLY received from MPLS Network Interdace to VLAN `%dvlan%`, as BOOTP Relay is disabled for VLAN `%dvlan%`

Message Parameters

Name	Type
dvlan	VLAN



BOOTP.Server Messages

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BOOTP.Server.SendCkptData on page 487
BOOTP.Server.RecvCkptData on page 488

BOOTP.Server.AllocSockFail

Description

This message is logged when the DHCP Server was unable to allocate network resources needed.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Failed allocating a socket for the DHCP Server on VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

BOOTP.Server.RxPktPortInv

Description

This message gets generated when a BOOTP request packet is received for the specified VLAN, but the receiving ports does not have DHCP server functionality enabled.

Remedy

If the specific port needs to support DHCP server functionality, enable it to do so. The command is enable DHCP ports portlist VLAN vlan_name.

Severity

Debug-Summary

Message Text

Received DHCP Request packet for VLAN `%vlan%` on port `%port%`, but port not DHCP enabled

Message Parameters

Name	Type
vlan	VLAN
port	ingressSlotPort

BOOTP.Server.RxPktInv

Description

When enabled this message will be logged for every packet received that could not be processed by the server. Possible reasons are; htype and hlen fields are not set correctly (1,6), options portion of the packet is not valid, packet does not contain DHCP magic cookie, or DHCP_MSG_TYPE options does not exist.

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

DHCP packet for VLAN `%vlan%` from `%port%` does not seem valid for processing

Message Parameters

Name	Type
vlan	VLAN
port	ingressSlotPort

BOOTP.Server.RxPktOpcodeInv

Description

When enabled this message will be logged for every packet with an invalid BOOTP opcode. The DHCP Server ony supports the BOOTPREQUEST opcode.

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Received DHCP packet with invalid opcode (`%op%`) on port `%port%` for VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
port	ingressSlotPort
op	uInt

BOOTP.Server.RxPktSizInv

Description

When enabled this message will be logged for every packet received that is to small to contain a DHCP packet header.

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Received DHCP packet on port `%port%` for VLAN `%vlan%` that is to small to contain a valid header (`%size%`)

Message Parameters

Name	Type
vlan	VLAN
port	ingressSlotPort
size	uInt

BOOTP.Server.RxPktMsgTypeInv

Description

When enabled this message will be logged for every packet with an invalid DHCP Message Type option. The DHCP Server ony accepts DISCOVER, REQUEST, DECLINE, RELEASE and INFORM messages.

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Received DHCP packet with invalid message type (`%type%`) on port `%port%` for VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
port	ingressSlotPort
type	uInt

BOOTP.Server.RxPktGwIPAddrInv

Description

When enabled this message will be logged for every packet which has the gateway IP address filed in. XOS currently only supports leasing for directly connected networks, so not via a BOOTP/DHCP relay agent.

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Received DHCP packet with a gateway IP address value of `%giaddr%` on port `%port%` for VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
port	ingressSlotPort
giaddr	IP

BOOTP.Server.IPAddrNotAvail

Description

There are no free IP addresses in the address pool for this VLAN. The DHCP server will ignore the DHCP DISCOVER message.

Remedy

Check the IP address pool usage, and if needed increase the pool's address range.

Severity

Info

Message Text

There are no free IP addresses in the DHCP address pool for VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

BOOTP.Server.CfgAddrRangeInv

Description

The DHCP address range configured for the mentioned VLAN does not match the configured subnet.

Remedy

Make sure the the range configured is on the same network as the VLAN's primary IP address. You can do this with the configure VLAN dhcp-address-range command.

Severity

Error

Message Text

Configured DHCP address range for VLAN `%vlan%` does not belong to it's subnet

Message Parameters

Name	Type
vlan	VLAN

BOOTP.Server.VLANIPNotCfg

Description

There is no primary IP address configured on the DHCP Server enabled VLAN.

Remedy

The DHCP server functionality requeres that a primary IP address is assigned to the VLAN it's configured for. To do this use the configure VLAN ipaddress x.x.x.x/x command.

Severity

Error

Message Text

VLAN `%vlan%` does not have a primary IP address configured

Message Parameters

Name	Type
vlan	VLAN

BOOTP.Server.TxDHCPPkt

Description

This message gets logged for every message the DHCP server sends out (when enabled).

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Transmitted a `%bytes%` bytes DHCP message(`%msg%`) to `%dip%` on VLAN `%vlan%`, error code `%error%`

Message Parameters

Name	Type
bytes	uInt
vlan	VLAN
dip	IP
error	sInt
msg	uInt

BOOTP.Server.TxDHCPPktDump

Description

This message gets logged for every message the DHCP server sends out (when enabled).

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Transmitted a %bytes% bytes DHCP message(%msg%) to %dip% on VLAN %vlan%, error code %error%

Message Parameters

Name	Type
bytes	uInt
vlan	VLAN
dip	IP
error	sInt
msg	uInt
buffer	Buf-ptr
bufLen	Buf-len

BOOTP.Server.RxPktMsgTypeDscvr

Description

When enabled this message will be logged for every DHCP packet of message type DISCOVER.

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Rx DISCOVER[%vlan%], clid=%clid% [LEN=%clidLen%], reqIP=%reqIP%, offeredIP=%offeredIP%

Message Parameters

Name	Type
vlan	VLAN
clid	MAC
clidLen	uInt16
reqIP	IP
offeredIP	IP

BOOTP.Server.RxPktMsgTypeReq

Description

When enabled this message will be logged for every DHCP packet of message type REQUEST.

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Rx REQUEST[`%vlan%`], clid=`%clid%` [LEN=`%clidLen%`], reqIP=`%reqIP%`, offeredIP=`%offeredIP%`, serverID=`%serverIP%`, ciaddr=`%ciaddr%`

Message Parameters

Name	Type
vlan	VLAN
clid	MAC
clidLen	uInt16
reqIP	IP
offeredIP	IP
serverIP	IP
ciaddr	IP

BOOTP.Server.RxPktMsgTypeRel

Description

When enabled this message will be logged for every DHCP packet of message type RELEASE.

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Rx RELEASE[`%vlan%`], clid=`%clid%` [LEN=`%clidLen%`], offeredIP=`%offeredIP%`, serverID=`%serverIP%`, ciaddr=`%ciaddr%`

Message Parameters

Name	Type
vlan	VLAN
clid	MAC
clidLen	uInt16
offeredIP	IP
serverIP	IP
ciaddr	IP

BOOTP.Server.RxPktMsgTypeDcln

Description

When enabled this message will be logged for every DHCP packet of message type DECLINE.

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Rx DECLINE[%vlan%], clid=%clid% [LEN=%clidLen%], offeredIP=%offeredIP%, serverID=%serverIP%, ciaddr=%ciaddr%

Message Parameters

Name	Type
vlan	VLAN
clid	MAC
clidLen	uInt16
offeredIP	IP
serverIP	IP
ciaddr	IP

BOOTP.Server.RxPktMsgTypeInfm

Description

When enabled this message will be logged for every DHCP packet of message type INFORM.

Remedy

This message exists for DHCP Server debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Rx INFORM[%vlan%], clid=%clid% [LEN=%clidLen%], ciaddr=%ciaddr%

Message Parameters

Name	Type
vlan	VLAN
clid	MAC
clidLen	uInt16
ciaddr	IP

BOOTP.Server.IPAddrInUse

Description

This message gets logged when a client detects that the IP address assigned by the DHCP server is already in use.

Remedy

This could happen when the DHCP server is restarted and has no state information about the previous assigned IP addresses or when other devices on the network are using the same IP address, for example when they are configured manually.

Severity

Warning

Message Text

DHCP Client with chaddr `%mac%` on VLAN `%vlan%` declined IP address `%IP%`

Message Parameters

Name	Type
vlan	VLAN
mac	MAC
IP	IP

BOOTP.Server.SendCkptData

Description

DHCP Server Checkpointing Data was sent from master to backup node

Remedy

NA

Severity

Debug-Summary

Message Text

DHCP Server Checkpointing Data was sent from master to backup node

BOOTP.Server.RecvCkptData

Description

DHCP Server Checkpointing Data was received on backup from master node

Remedy

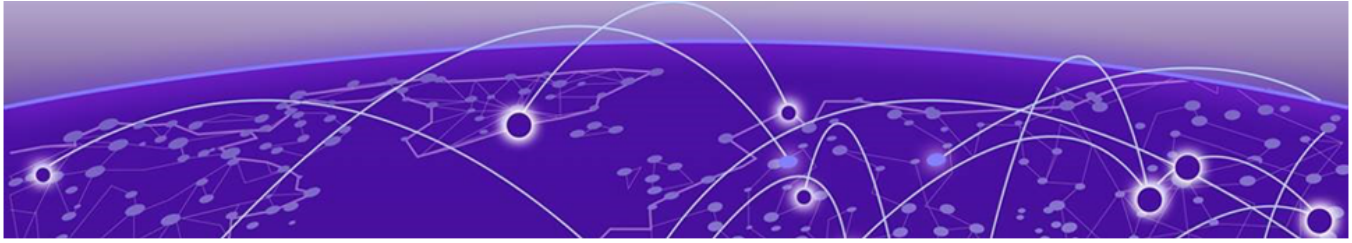
No remedy is available.

Severity

Debug-Summary

Message Text

DHCP Server Checkpointing Data was received on backup from master node



bwMgr Messages

bwMgr.Critical on page 489
bwMgr.Error on page 490
bwMgr.Warning on page 490
bwMgr.Notice on page 491
bwMgr.Info on page 491
bwMgr.DebugSummary on page 492
bwMgr.DebugVerbose on page 493
bwMgr.DebugData on page 493

bwMgr.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

bwMgr.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

bwMgr.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

bwMgr.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

bwMgr.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

bwMgr.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

bwMgr.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

bwMgr.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

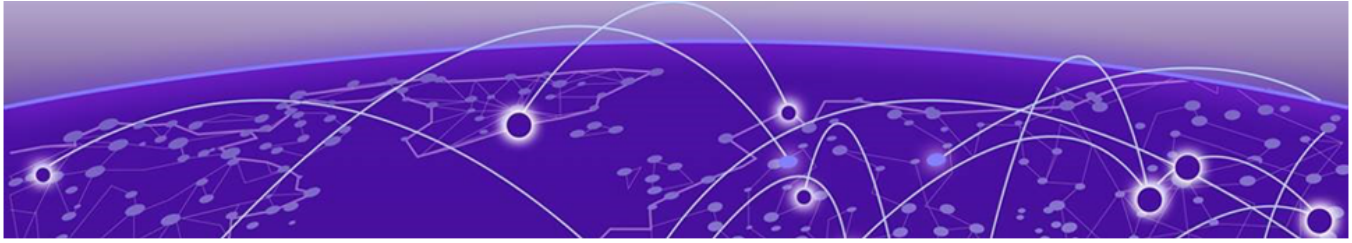
Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



Card Messages

Card.Info on page 495

Card.Info

Description

A normal but potentially interesting condition has been detected on the card, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

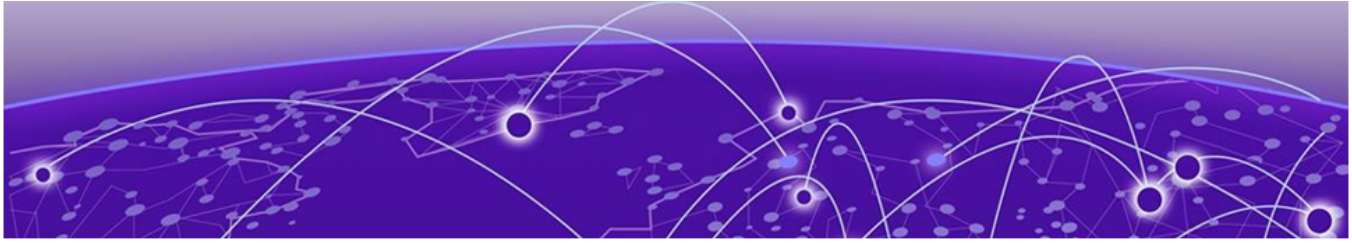
Info

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf



Card.IPv4Adj Messages

Card.IPv4Adj.Error on page 497
Card.IPv4Adj.Warning on page 497
Card.IPv4Adj.Notice on page 498
Card.IPv4Adj.Info on page 498
Card.IPv4Adj.DebugSummary on page 499
Card.IPv4Adj.AllocAdjEntFail on page 500
Card.IPv4Adj.AdjEntNull on page 500
Card.IPv4Adj.NHTblFullEnt on page 501
Card.IPv4Adj.NHDebugSummary on page 502
Card.IPv4Adj.AddRetryFail on page 502
Card.IPv4Adj.DelAdjLPMAgeFail on page 503
Card.IPv4Adj.DelAdjNHFull on page 504
Card.IPv4Adj.HostAddFail on page 504
Card.IPv4Adj.HostDelFail on page 505
Card.IPv4Adj.KickCollAddFail on page 506
Card.IPv4Adj.KickCollFail on page 507
Card.IPv4Adj.KickHashAdjNull on page 507
Card.IPv4Adj.KickHashDelAdjFail on page 508
Card.IPv4Adj.KickHashDelRemHostFail on page 509
Card.IPv4Adj.KickHashRemHostNull on page 510
Card.IPv4Adj.KickLPMAdjFail on page 510
Card.IPv4Adj.KickLPMRemHostFail on page 511
Card.IPv4Adj.DelAdjNHReplFail on page 512
Card.IPv4Adj.NHTblFull on page 513
Card.IPv4Adj.L3TblFull on page 513
Card.IPv4Adj.L3TblFullEnt on page 514
Card.IPv4Adj.RmtHostL3TblFull on page 515
Card.IPv4Adj.RmtHostL3TblFullEnt on page 515

Card.IPv4Adj.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource on the card.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
ipAddr	IP
msg	Printf

Card.IPv4Adj.Warning

Description

An abnormal condition has been detected on the card which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
ipAddr	IP
msg	Printf

Card.IPv4Adj.Notice

Description

A normal but significant condition has been detected on the card, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

vrId `%vrId%` adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf

Card.IPv4Adj.Info

Description

A normal but potentially interesting condition has been detected on the card, which signals that the system is functioning as expected and simply provides potentially

detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

vrId `%vrId%` adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf

Card.IPv4Adj.DebugSummary

Description

A condition has been detected on the card that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

vrId `%vrId%` adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf

Card.IPv4Adj.AllocAdjEntFail

Description

The allocation of adjacency entry failed. A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem is due to the failure to allocate an internal system resource.

Remedy

Indicates that the system is running low on memory. Please contact Customer Service to report this error.

Severity

Error

Message Text

vrId `%vrId%` adj `%ipAddr%`: No memory for IP Adjacency VLAN ID `%vlanId%` MAC `%mac%`.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
vlanId	VLAN-tag
mac	MAC

Card.IPv4Adj.AdjEntNull

Description

A NULL new adjacency was passed to a call to update adjacency information. The system or the network in general may not be functioning as expected.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: adj entry is NULL

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

Card.IPv4Adj.NHTblFullEnt

Description

The hardware Next Hop Table full, and an IPv4 unicast entry could not be added. The Next Hop table is shared by IPv4 and IPv6 unicast host entries. IPv4 unicast packets to the specified address will be slowpath forwarded.

Remedy

The command "show iproute reserved-entries statistics" shows hardware table utilization, including counts of IPv4 and IPv6 unicast hosts.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 unicast entry `%ipAddr%` not added. Hardware Next Hop Table full.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

Card.IPv4Adj.NHDebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action needed - Informational message only

Severity

Debug-Summary

Message Text

adj `%ipAddr%: %msg%`

Message Parameters

Name	Type
ipAddr	IP
msg	Printf

Card.IPv4Adj.AddRetryFail

Description

The specified IPv4 host was not added to the Hash Table because other resource types with higher priority currectly occupy the applicable buckets of the hash table. This normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action needed - Notification message only

Severity

Notice

Message Text

vrId `%vrId%` adj `%ipAddr%`: Add host to Hash Table unsuccessful (`%msg%`). No IPv4 Unicast hash collisions could be removed; other resource types take precedence. (Logged at most once per hour.)

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	String

Card.IPv4Adj.DelAdjLPMAgeFail

Description

An accompanying log message provides further details. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Error deleting adjacency. Can't age LPM entry

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

Card.IPv4Adj.DelAdjNHFull

Description

Next Hop table remains full after deleting the specified adjacency. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: After deleting adjacency for NH replacement, NH count still `%count%`.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
count	uInt

Card.IPv4Adj.HostAddFail

Description

Host add request succeeded on some units and failed on others due to the specified error. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in

general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Add had mixed results. `%success%` units succeeded, `%fail%` failed (`%msg%`) flags `%flags%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
success	uInt
fail	uInt
msg	String
flags	xInt32

Card.IPv4Adj.HostDelFail

Description

Host delete request succeeded on some units and failed on others due to the specified error. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Unable to delete from subsequent unit `%unit%` (`%msg%`) flags `%flags%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
unit	uInt
msg	String
flags	xInt32

Card.IPv4Adj.KickCollAddFail

Description

While attempting to move the specified gateway from LPM to Hash Table, the add operation to the Hash Table failed due to the specified error, even after making space removing a different host from a contended bucket of the hash table. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Move gateway from LPM to Hash Table failed (`%msg%`) even after removing Hash collision.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	String

Card.IPv4Adj.KickCollFail

Description

While attempting to move the specified gateway from LPM to Hash Table, another suitable host could not be found to remove from the contended buckets of the hash table. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Move gateway from LPM to Hash Table failed. No Hash collision could be removed. (Logged at most once per hour.)

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

Card.IPv4Adj.KickHashAdjNull

Description

While attempting to remove a suitable existing host to make space for the specified host in the Hash Table, an unexpected error was encountered looking up the existing

adjacency. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Error finding adjacency when deleting hash collision.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

Card.IPv4Adj.KickHashDelAdjFail

Description

An accompanying log message provides further details. While attempting to remove a suitable existing host to make space for a new host in the Hash Table, an unexpected error was encountered deleting the specified existing adjacency. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Error deleting adjacency. Can't delete hash collision.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

Card.IPv4Adj.KickHashDelRemHostFail

Description

While attempting to remove a suitable existing host to make space for a new host in the Hash Table, an unexpected error was encountered deleting the specified existing remote host. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Error deleting remote host (`%msg%`). Can't delete hash collision.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	String

Card.IPv4Adj.KickHashRemHostNull

Description

While attempting to remove a suitable existing host to make space for the specified host in the Hash Table, an unexpected error was encountered looking up the existing remote host. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Error finding remote host when deleting hash collision.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

Card.IPv4Adj.KickLPMAdjFail

Description

An accompanying log message provides further details. While attempting to remove a suitable existing host to make space for a new host in the LPM Table, an unexpected error was encountered deleting the specified existing adjacency. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Error deleting adjacency from LPM.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

Card.IPv4Adj.KickLPMRemHostFail

Description

An accompanying log message provides further details. While attempting to remove a suitable existing host to make space for a new host in the LPM Table, an unexpected error was encountered deleting the specified existing adjacency. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Error deleting remote host from LPM (`%msg%`).

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	String

Card.IPv4Adj.DelAdjNHReplFail

Description

An accompanying log message provides further details. An abnormal condition has been detected deleting the specified adjacency when trying to delete an existing adjacency to make room in the Next Hop table. Although this is not interfering with the normal operation of the system, this may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Error deleting adjacency for NH replacement. Can't delete from `%table%` table

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
table	String

Card.IPv4Adj.NHTblFull

Description

The hardware Next Hop Table full, and an IPv4 unicast entry could not be added. The Next Hop table is shared by IPv4 and IPv6 unicast host entries. Any IPv4 unicast packet without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv4 unicast host forwarding entries trigger this condition.

Remedy

The command "show iproute reserved-entries statistics" shows hardware table utilization, including counts of IPv4 and IPv6 unicast hosts. An associated debug-summary severity message "HAL.IPv4Adj.NHTblFullEnt" can be enabled to view per-occurrence details including the IP address. In addition, "debug hal show ipv4adj" can be used to determine which IP unicast forwarding entries were not added to hardware. Any entry in this display without the "S" Setup flag is not currently programmed in hardware. Even an entry in this display with the "S" Setup flag may not be currently programmed in hardware on any slots. Use "debug hal show ipv4adj slot N", and again look for the "S" Setup flag.

Severity

Warning

Message Text

IPv4 unicast entry not added. Hardware Next Hop Table full.

Card.IPv4Adj.L3TblFull

Description

The attempt to add a local IPv4 unicast host to hardware only fails if the number of existing hosts exceeds the hardware capacity times two. Note that any IPv4 unicast packet without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv4 unicast local host forwarding entries trigger this condition.

Remedy

The CLI command "show iproute reserved-entries statistics" can be used to display the various IP resources currently in hardware, and the theoretical maximum for each hardware product type. Since the capacity has been exceeded, consider altering the network design, or using a different product type with higher capacity. An associated debug-summary severity message "Card.IPv4Adj.L3TblFullEnt" can be enabled to view

per-occurrence details including the IP address. In addition, "debug hal show ipv4adj" and "debug hal show ipv4adj slot N" can be used to determine which IP unicast forwarding entries were not added to hardware. Any entry in this display without the "S" Setup flag is not currently programmed in hardware.

Severity

Warning

Message Text

IPv4 unicast entry not added. Hardware L3 Table full.

Card.IPv4Adj.L3TblFullEnt

Description

A hash bucket in the L3 table has been exceeded and the specified IPv4 unicast address could not be added to the hardware. The L3 table is shared by IPv4 multicast and IPv4 and IPv6 unicast host entries. IPv4 unicast packets to the specified address will be slowpath forwarded.

Remedy

"debug hal show forwarding distributions" can be used to view hash bucket distributions for the available hashing algorithms. "show forwarding configuration" will display the configured and currently running hash algorithm. In order to change the algorithm, use "configure forwarding hash-algorithm [crc16 | crc32]". A system reboot is required for this command to take effect.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 unicast entry `%ipAddr%` not added. Hardware L3 Table full. `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf

Card.IPv4Adj.RmtHostL3TblFull

Description

The number of IPv4 routes has exceeded the number of routes reserved in "configure iproute reserved-entries <num_routes_needed>", and there is unicast traffic to a remote host whose LPM route is not among the number reserved in hardware. Since this LPM route is not present in hardware, an attempt is made to add the individual remote host to hardware, and the attempt failed. This attempt on the remote host only fails if the number of IPv4 unicast local hosts exceeds the hardware capacity times two. Note that any IPv4 unicast packet without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv4 unicast remote host forwarding entries trigger this condition.

Remedy

It is possible this condition occurred because too low a value was specified in "configure iproute reserved-entries <num_routes_needed>". The CLI command "show iproute reserved-entries statistics" can be used to display the various IP resources currently in hardware, and the theoretical maximum for each hardware product type. "show iproute summary" can be used to display the routes present in software.

Severity

Warning

Message Text

IPv4 unicast remote host entry not added. Hardware L3 Table full.

Card.IPv4Adj.RmtHostL3TblFullEnt

Description

A hash bucket in the L3 table has been exceeded and the specified IPv4 unicast remote host address could not be added to the hardware. The L3 table is shared by IPv4 multicast and IPv4 and IPv6 unicast host entries. IPv4 unicast packets to the specified address will be slowpath forwarded.

Remedy

"debug hal show forwarding distributions" can be used to view hash bucket distributions for the available hashing algorithms. "show forwarding configuration" will display the configured and currently running hash algorithm. In order to change the algorithm, use "configure forwarding hash-algorithm [crc16 | crc32]". A system reboot is required for this command to take effect.

Severity

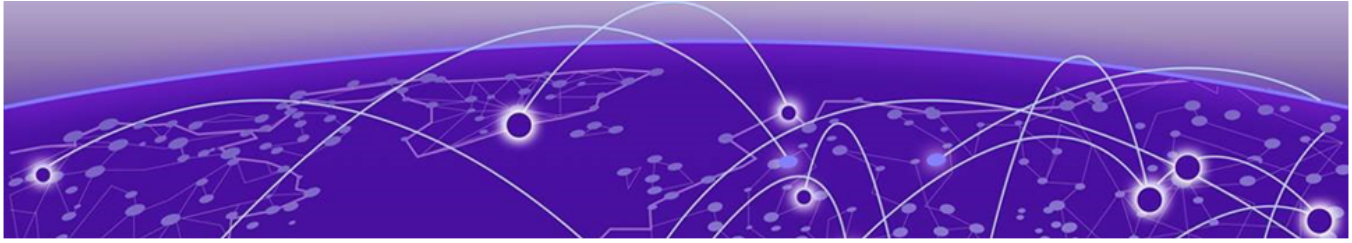
Debug-Summary

Message Text

vrId `%vrId%` IPv4 unicast remote host entry `%ipAddr%` not added. Hardware L3 Table full. `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf



Card.IPv4FIB Messages

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Card.IPv4FIB.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

vrId %vrId% dest %destAddr%:%maskLen% nexthop %nexthop%: %msg%

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

Card.IPv4FIB.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId %vrId% dest %destAddr%:%maskLen% nexthop %nexthop%: %msg%

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

Card.IPv4FIB.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action needed - Notification message only

Severity

Notice

Message Text

vrId `%vrId%` dest `%destAddr%`:`%maskLen%` nexthop `%nexthop%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

Card.IPv4FIB.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action needed - Informational message only

Severity

Info

Message Text

vrId `%vrId%` dest `%destAddr%:%maskLen%` nexthop `%nexthop%: %msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

Card.IPv4FIB.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action needed - Informational message only

Severity

Debug-Summary

Message Text

vrId `%vrId%` dest `%destAddr%:%maskLen%` nexthop `%nexthop%` : `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP

Name	Type
maskLen	IPmasklen
nexthop	IP
msg	Printf

Card.IPv4FIB.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action needed - Informational message only

Severity

Debug-Verbose

Message Text

vrId `%vrId%` dest `%destAddr%`:`%maskLen%` nexthop `%nexthop%` : `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

Card.IPv4FIB.LPMTblFull

Description

The hardware Longest Prefix Match table has been exceeded and at least one IPv4 unicast route entry could not be added to the hardware. The LPM table is shared by IPv4 and IPv6 route entries. The routes with the longest subnet mask lengths are maintained in the LPM table. Any IPv4 unicast packet to a destination not present in either the L3 host forwarding table or the LPM routing table will be slowpath

forwarded. This message will be logged at most 1 time per hour when new IPv4 unicast route entries trigger this condition.

Remedy

An associated debug-summary severity message "Card.IPv4FIB.LPMTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv4fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all nodes. Use the "debug hal show ipv4fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag.

Severity

Notice

Message Text

IPv4 route not added to hardware. Hardware LPM Table full.

Card.IPv4FIB.ECMPTblFull

Description

The hardware Equal-Cost Multi-Path table has been exceeded and at least one set of IPv4 unicast ECMP routes could not be added to the hardware. When this occurs, a single, non-ECMP route will remain in the LPM table in hardware. This message will be logged at most 1 time per hour when new sets of IPv4 unicast ECMP routes trigger this condition.

Remedy

An associated debug-summary severity message "Card.IPv4FIB.ECMPTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv4fib" can be used to determine which IP unicast route entries were not added to hardware as ECMP routes. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. The "M" Multipath flag indicates the route is ECMP. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all nodes. Use the "debug hal show ipv4fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag and "M" Multipath flags.

Severity

Notice

Message Text

IPv4 route can not use sharing on all its gateways. Hardware ECMP Table full. Packets are HW forwarded across a subset of gateways. (Logged at most once per hour.)

Card.IPv4FIB.LPMTblFullEnt

Description

The hardware Longest Prefix Match table has been exceeded and the specified IPv4 unicast route entry could not be added to the hardware. The LPM table is shared by IPv4 and IPv6 route entries. The routes with the longest subnet mask lengths are maintained in the LPM table. Any IPv4 unicast packet to a destination not present in either the L3 host forwarding table or the LPM routing table will be slowpath forwarded.

Remedy

"debug hal show ipv4fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all nodes. Use the "debug hal show ipv4fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 route `%destAddr%:%maskLen%` nexthop `%nexthop%` not added to hardware. Hardware LPM Table full.

Message Parameters

Name	Type
vrId	VRID
destAddr	IP
maskLen	IPmasklen
nexthop	IP

Card.IPv4FIB.ECMPTblFullEnt

Description

The hardware Equal-Cost Multi-Path table has been exceeded and the specified route in the set of IPv4 unicast ECMP routes could not be added to the hardware. When this occurs, a single, non-ECMP route in the set will remain in the LPM table in hardware.

Remedy

"debug hal show ipv4fib" can be used to determine which IP unicast route entries were not added to hardware as ECMP routes. Any entry in this display without the "S" Setup flag is not currently programmed in hardware. The "M" Multipath flag indicates the route is ECMP. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all nodes. Use the "debug hal show ipv4fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag and "M" Multipath flags.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 ECMP route `%destAddr%:%maskLen%` nexthop `%nexthop%` not added. Hardware ECMP Table full. `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	IP
maskLen	IPmasklen
nexthop	IP
msg	String

Card.IPv4FIB.ECMPMaxGw

Description

The number of gateways for this subnet exceeds the number specified in "configure iproute sharing max-gateways N". This route will not be placed in hardware, unless another route for this subnet using an existing gateways is first removed.

Remedy

Confirm the number shown for "Max Shared Gateways" in "show ipconfig" is the desired value. Modify the value using "configure iproute sharing max-gateways N".

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 ECMP route `%destAddr%:%maskLen%` nexthop `%nexthop%` not added. Configured max-gateways exceeded. `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	String

Card.IPv4FIB.RtDebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action needed - Informational message only

Severity

Debug-Summary

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

Card.IPv4FIB.FndShortInstlRtFail

Description

The system is trying to find the shortest mask len route to be deleted from hardware to make room for another route. It could not find the shortest mask len route. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

shorted installed route: len `%masklen%`, num `%num%`, not found

Message Parameters

Name	Type
masklen	uInt32
num	uInt32

Card.IPv4FIB.FndLongUninstlRtFail

Description

The longest uninstalled route was not found. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

longest uninstalled route: len `%masklen%`, num `%num%`, not found

Message Parameters

Name	Type
masklen	uInt32
num	uInt32

Card.IPv4FIB.ChkLPMShdwFail

Description

A check to see availability of free space in shadow table returned an error other than the table being full. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

DEFIP add uninstalled: check LPM shadow returned `%errorstr%` (`%rc%`)

Message Parameters

Name	Type
errorstr	String
rc	uInt32

Card.IPv4FIB.LPMTblAlrdyEmpty

Description

During deletion of routes, the number of routes in LPM table should have been greater than zero. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

Number of IPv4 routes in LPM table is already 0.

Card.IPv4FIB.LPMRsvdUsed

Description

The configured # of reserved-entries for the hardware Longest Prefix Match table has been exceeded and at least one IPv4 unicast route entry was not added to the hardware. The LPM table is shared by IPv4 and IPv6 route entries. The routes with the longest subnet mask lengths are maintained in the LPM table. Any IPv4 unicast packet to a destination not present in either the L3 host forwarding table or the LPM routing table will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv4 unicast route entries trigger this condition.

Remedy

An associated debug-summary severity message "Card.IPv4FIB.LPMTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv4fib" can be used to determine which IP unicast

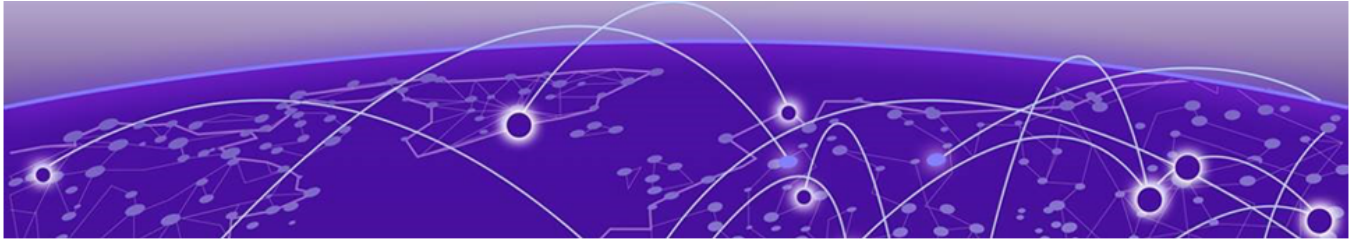
route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all nodes. Use the "debug hal show ipv4fib slot N" on a node, and look for the "S" (Setup in hardware) flag.

Severity

Notice

Message Text

IPv4 route not added to hardware. Reached configured # of IP Route reserved-entries. (Logged at most once per hour.)



Card.IPv6Adj Messages

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Card.IPv6Adj.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource on the card.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

adj `%ip6Addr%: %msg%`

Message Parameters

Name	Type
ip6Addr	IPv6
msg	Printf

Card.IPv6Adj.Warning

Description

An abnormal condition has been detected on the card which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

adj `%ip6Addr%: %msg%`

Message Parameters

Name	Type
ip6Addr	IPv6
msg	Printf

Card.IPv6Adj.Notice

Description

A normal but significant condition has been detected on the card, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

vrId `%vrId%` adj `%ip6Addr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ip6Addr	IPv6
msg	Printf

Card.IPv6Adj.Info

Description

A normal but potentially interesting condition has been detected on the card, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

vrId `%vrId%` adj `%ip6Addr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ip6Addr	IPv6
msg	Printf

Card.IPv6Adj.DebugSummary

Description

Error messages for IPv6 Adjacencies card context

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

vrId `%vrId%` adj `%ip6Addr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ip6Addr	IPv6
msg	Printf

Card.IPv6Adj.NHTblFull

Description

The hardware Next Hop Table full, and an IPv6 unicast entry could not be added. The Next Hop table is shared by IPv4 and IPv6 unicast host entries. Any IPv6 unicast packet without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv6 unicast host forwarding entries trigger this condition.

Remedy

The command "show iproute reserved-entries statistics" shows hardware table utilization, including counts of IPv4 and IPv6 unicast hosts. An associated debug-summary severity message "HAL.IPv6Adj.NHTblFullEnt" can be enabled to view per-occurrence details including the IP address. In addition, "debug hal show ipv6adj" can be used to determine which IP unicast forwarding entries were not added to hardware. Any entry in this display without the "S" Setup flag is not currently programmed in hardware. Even an entry in this display with the "S" Setup flag may not be currently programmed in hardware on any slots. Use "debug hal show ipv6adj slot N", and again look for the "S" Setup flag.

Severity

Warning

Message Text

IPv6 unicast entry not added. Hardware Next Hop Table full.

Card.IPv6Adj.AllocAdjEntFail

Description

Allocation of adjacency entry failed. It is interfering with the normal operation of the system. The system is not functioning as expected.

Remedy

System is running low on memory. Please contact Customer Service to report this error.

Severity

Error

Message Text

vrId `%vrId%` adj `%ipAddr%`: No memory for Ip Adj VLAN ID `%vlanId%` MAC `%mac%`.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IPv6
vlanId	VLAN-tag
mac	MAC

Card.IPv6Adj.HostAddFail

Description

Host add request succeeded on some units and failed on others due to the specified error. An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Add had mixed results. `%success%` units succeeded, `%fail%` failed (`%msg%`) flags `%flags%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IPv6
success	uInt
fail	uInt
msg	String
flags	xInt32

Card.IPv6Adj.ExpctHRCNull

Description

A non-NULL host information was received when NULL host information was expected. A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

vrId `%vrId%` adj `%ipAddr%`: hostPtr is not NULL.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IPv6

Card.IPv6Adj.NHTblFullEnt

Description

The hardware Next Hop Table full, and an IPv6 unicast entry could not be added. The Next Hop table is shared by IPv4 and IPv6 unicast host entries. IPv6 unicast packets to the specified address will be slowpath forwarded.

Remedy

The command "show iproute reserved-entries statistics" shows hardware table utilization, including counts of IPv4 and IPv6 unicast hosts.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv6 unicast entry `%ip6Addr%` not added. Hardware Next Hop Table full.

Message Parameters

Name	Type
vrId	VRID
ip6Addr	IPv6

Card.IPv6Adj.NHDebugSummary

Description

Debug messages for IPv6 Adjacencies

Remedy

No action required - Informational message only.

Severity

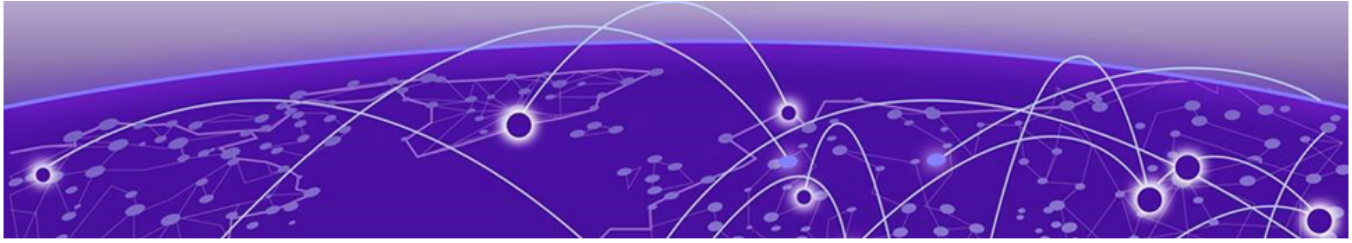
Debug-Summary

Message Text

adj `%ipv6Addr% %msg%`

Message Parameters

Name	Type
ipv6Addr	IPv6
msg	Printf



Card.IPv6FIB Messages

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Card.IPv6FIB.LongMskTblFullEnt on page 544
Card.IPv6FIB.LongMskTblNotAvail on page 545
Card.IPv6FIB.ECMPTblFull on page 546
Card.IPv6FIB.ECMPTblFullEnt on page 546
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Card.IPv6FIB.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource on the card.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%`: `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

Card.IPv6FIB.Warning

Description

An abnormal condition has been detected on the card which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%`: `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

Card.IPv6FIB.Notice

Description

A normal but significant condition has been detected on the card, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%`: `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

Card.IPv6FIB.Info

Description

A normal but potentially interesting condition has been detected on the card, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%`: `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

Card.IPv6FIB.DebugSummary

Description

Debug messages for IPv6 FIB card context

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%` : `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

Card.IPv6FIB.LPMTblFull

Description

The hardware Longest Prefix Match table has been exceeded and at least one IPv6 unicast route entry could not be added to the hardware. The LPM table is shared by IPv4 and IPv6 route entries. The routes with the longest subnet mask lengths are maintained in the LPM table. Any IPv6 unicast packet to a destination not present in the LPM routing table will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv6 unicast route entries trigger this condition.

Remedy

An associated debug-summary severity message "HAL.IPv6FIB.LPMTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all slots. Use the "debug hal show ipv6fib slot N" on such a module or node, and look for the "S" (Setup in hardware) flag.

Severity

Notice

Message Text

IPv6 route not added to hardware. Hardware LPM Table full.

Card.IPv6FIB.LPMTblFullEnt

Description

The hardware Longest Prefix Match table has been exceeded and the specified IPv6 unicast route entry could not be added to the hardware. The LPM table is shared by IPv4 and IPv6 route entries. The routes with the longest subnet mask lengths are maintained in the LPM table. Any IPv6 unicast packet to a destination not present in the LPM routing table will be slowpath forwarded.

Remedy

"debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed

in hardware on all slots. Use the "debug hal show ipv6fib slot N" on such a module or node, and look for the "S" (Setup in hardware) flag.

Severity

Debug-Summary

Message Text

IPv6 route vrId `%vrId%` `%destAddr%`/`%maskLen%` nexthop `%nexthop%` not added to hardware. Hardware LPM Table full.

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6

Card.IPv6FIB.FIBEntNull

Description

The FIB entry passed is NULL.

Remedy

No remedy is available.

Severity

Error

Message Text

`%msg%` Passed NULL entry pointer.

Message Parameters

Name	Type
msg	Printf

Card.IPv6FIB.LongMskTblFull

Description

The hardware table used to store IPv6 routes with a mask > 64 bits has been exceeded and at least one IPv6 unicast route entry could not be added to the hardware. Any IPv6 unicast packet to a destination not present in the HW table used for routes with > 64 bit masks may be incorrectly forwarded. This message will be logged at most 1 time per hour when new IPv6 unicast route entries trigger this condition.

Remedy

An associated debug-summary severity message "HAL.IPv6FIB.LongMskTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all slots. Use the "debug hal show ipv6fib slot N" on such a module or node, and look for the "S" (Setup in hardware) flag. If IPv6 route compression is not enabled, enabling it will reduce the number of entries in the HW tables for routes with masks > 64 bits.

Severity

Warning

Message Text

IPv6 route with mask > 64 bits not added. Long Mask Hardware Table full. (Logged at most once per hour.)

Card.IPv6FIB.LongMskTblFullEnt

Description

The hardware table used to store IPv6 routes with > 64 bit masks has been exceeded and the specified IPv6 unicast route entry could not be added to the hardware. The routes with the longest subnet mask lengths are maintained in the HW table. Any IPv6 unicast packet to a destination not present in the HW routing table may be incorrectly forwarded.

Remedy

"debug hal show ipv6fib" can be used to determine which IP unicast route entries with masks > 64 bits were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an

entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all slots. Use the "debug hal show ipv6fib slot N" on such a module or node, and look for the "S" (Setup in hardware) flag. If IPv6 route compression is not enabled, enabling it will reduce the number of entries in the tables for routes with > 64 bit masks.

Severity

Debug-Summary

Message Text

IPv6 route vrId `%vrId%` `%destAddr%`/`%maskLen%` nexthop `%nexthop%` not added. Long Mask Hardware Table full.

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6

Card.IPv6FIB.LongMskTblNotAvail

Description

The hardware table used to store IPv6 routes with a mask > 64 bits has no available entries. Any IPv6 unicast packet to a destination that would have matched the route that is not present in the HW table may be incorrectly forwarded. This message will be logged at most 1 time per hour when new IPv6 unicast route entries trigger this condition.

Remedy

An associated debug-summary severity message "HAL.IPv6FIB.LongMskTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. The solution to this issue is to reduce the number of customer installed ACLs until there are HW entries available for the IPv6 routes with masks > 64 bits. In addition, "debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all slots. Use the "debug hal show ipv6fib slot N" on such a module or node, and look for the "S" (Setup in hardware) flag.

Severity

Warning

Message Text

IPv6 route with > 64 bit mask not added. Hardware Table not available for IPv6 routes with Long Masks.

Card.IPv6FIB.ECMPTblFull

Description

The hardware Equal-Cost Multi-Path table has been exceeded and at least one set of IPv6 unicast ECMP routes could not be added to the hardware. When this occurs, a single, non-ECMP route will remain in the LPM table in hardware. This message will be logged at most 1 time per hour when new sets of IPv6 unicast ECMP routes trigger this condition.

Remedy

An associated debug-summary severity message "HAL.IPv6FIB.ECMPTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware as ECMP routes. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. The "M" Multipath flag indicates the route is ECMP. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all slots. Use the "debug hal show ipv6fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag and "M" Multipath flags.

Severity

Notice

Message Text

IPv6 route can not use sharing on all its gateways. Hardware ECMP Table full. Packets are HW forwarded across a subset of gateways. (Logged at most once per hour.)

Card.IPv6FIB.ECMPTblFullEnt

Description

The hardware Equal-Cost Multi-Path table has been exceeded and the specified route in the set of IPv6 unicast ECMP routes could not be added to the hardware. When this occurs, a single, non-ECMP route in the set will remain in the LPM table in hardware.

Remedy

"debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware as ECMP routes. Any entry in this display without the "S" Setup flag is not currently programmed in hardware. The "M" Multipath flag indicates the route is ECMP. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all slots. Use the "debug hal show ipv6fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag and "M" Multipath flags.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv6 ECMP route `%destAddr%`/`%maskLen%` nexthop `%nexthop%` not added. Hardware ECMP Table full. `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	String

Card.IPv6FIB.ECMPMaxGw

Description

The number of gateways for this subnet exceeds the number specified in "configure iproute sharing max-gateways N". This route will not be placed in hardware, unless another route for this subnet using an existing gateways is first removed.

Remedy

Confirm the number shown for "Max Shared Gateways" in "show ipconfig" is the desired value. Modify the value using "configure iproute sharing max-gateways N".

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv6 ECMP route `%destAddr%`/`%maskLen%` nexthop `%nexthop%` not added. Configured max-gateways exceeded. `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	String

Card.IPv6FIB.LPMRsvdUsed

Description

The configured # of reserved-entries for the hardware Longest Prefix Match table has been exceeded and at least one IPv6 unicast route entry was not added to the hardware. The LPM table is shared by IPv4 and IPv6 route entries. The routes with the longest subnet mask lengths are maintained in the LPM table. Any IPv6 unicast packet to a destination not present in either the L3 host forwarding table or the LPM routing table will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv6 unicast route entries trigger this condition.

Remedy

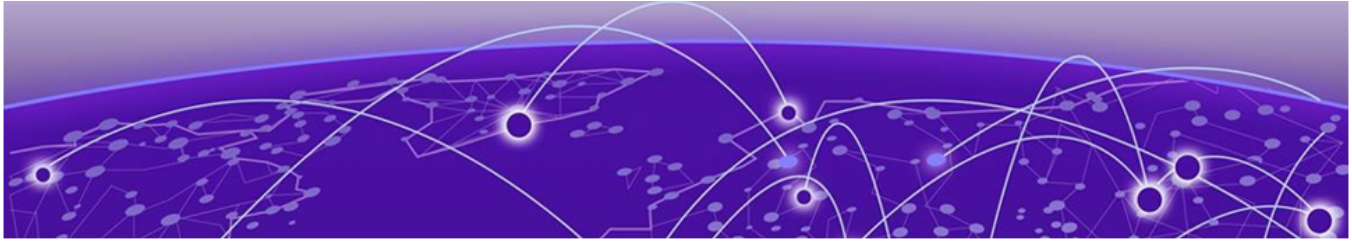
An associated debug-summary severity message "Card.IPv6FIB.LPMTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all slots. Use the "debug hal show ipv6fib slot N" on a node, and look for the "S" (Setup in hardware) flag.

Severity

Notice

Message Text

IPv6 route not added to hardware. Reached configured # of IP Route reserved-entries. (Logged at most once per hour.)



CDP Messages

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CDP.AllocMemFail on page 550
CDP.InitDone on page 550
CDP.AddNbrOK on page 551
CDP.AddNbrFail on page 551
CDP.TxPDUFail on page 552
CDP.ParmNull on page 553
CDP.RxPDUDump on page 553
CDP.TxPDUDump on page 554
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CDP.Trace on page 555
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CDP.RemMgmtAddrVLANNotExist on page 556
CDP.RemMgmtAddrPrimNotExist on page 557
CDP.RemMgmtAddrSecNotExist on page 557

CDP.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

CDP.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect operation of the CDP feature.

Remedy

This is a rare and internal condition needing technical assistance. Contact technical support with the following information: Output of "show tech", "show cdp", "show configuration edp","show cpu-monitoring", "show memory".

Severity

Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure of size `%size%`.

Message Parameters

Name	Type
obj	String
size	uInt

CDP.InitDone

Description

Cisco Discovery Protocol has been initialized.

Remedy

No action required - Information message only.

Severity

Info

Message Text

Cisco Discovery Protocol has been initialized

CDP.AddNbrOK

Description

Information about a neighbor for which CDP has been received and added.

Remedy

No action required - Information message only.

Severity

Info

Message Text

New neighbor Added `%slotPortString%` `%devId%`

Message Parameters

Name	Type
slotPortString	SlotPort
devId	String

CDP.AddNbrFail

Description

Information about a neighbor for which CDP has been received but could not be added due to lack of system resources. The reason may be "Cannot allocate memory ".

Remedy

This is a rare and internal condition needing technical assistance. Contact technical support with the following information: Output of "show tech", "show cdp", "show configuration edp","show cpu-monitoring", "show memory".

Severity

Warning

Message Text

Cannot add neighbor entry for `%slotPortString%` `%devId%` - `%reason%`

Message Parameters

Name	Type
slotPortString	SlotPort
devId	String
reason	String

CDP.TxPDUFail

Description

CDP packet could not be sent due to an internal error.

Remedy

This is a rare and internal condition needing technical assistance. Contact technical support with the following information: Output of "show tech", "show cdp", "show configuration edp","show cpu-monitoring", "show memory".

Severity

Warning

Message Text

Failed to send PDU on `%slotPortString%` - `%reason%`

Message Parameters

Name	Type
slotPortString	SlotPort
reason	Printf

CDP.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and is indicative of a possible memory corruption , CDP information could not be accessed.

Remedy

This is a rare and internal condition needing technical assistance. Contact technical support with the following information: Output of "show tech", "show cdp", "show configuration edp","show cpu-monitoring", "show memory".

Severity

Error

Message Text

Function `%func%` was called with a Null pointer `%arg%`.

Message Parameters

Name	Type
func	String
arg	String

CDP.RxPDUDump

Description

CDP info PDU is being received on the specified port.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

CDP PDU info Rx packet on port `%slotPortString%` of size - `%size%` *** `%buffer%`

Message Parameters

Name	Type
slotPortString	SlotPort
buffer	Buf-ptr
size	Buf-len

CDP.TxPDUDump

Description

CDP info PDU is being sent on the specified port.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

CDP PDU info Tx packet on port `%slotPortString%` of size - `%size%` *** `%buffer%`

Message Parameters

Name	Type
slotPortString	SlotPort
buffer	Buf-ptr
size	Buf-len

CDP.AgeOutNbr

Description

The neighbor database entry for the cdp node with the specified deviceID has been aged out and removed from the CDP database.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Age out neighbor `%slotPortString% %devId%`

Message Parameters

Name	Type
slotPortString	SlotPort
devId	String

CDP.Trace

Description

Using this condition to trace CDP's code. Used for debugging purposes.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%logMsg%`

Message Parameters

Name	Type
logMsg	Printf

CDP.DelNbrOK

Description

The neighbor database entry for the cdp node with the specified deviceID has been removed from the CDP database.

Remedy

No action required - Information message only.

Severity

Info

Message Text

Neighbor `%devId%` removed from port `%slotPortString%`

Message Parameters

Name	Type
slotPortString	SlotPort
devId	String

CDP.RemMgmtAddrVLANNotExist

Description

The VLAN configured in CDP management-address configuration got deleted. So removing CDP management-address configuration.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Unconfigured Management Address because the VLAN was Deleted

CDP.RemMgmtAddrPrimNotExist

Description

No primary IP addresses exists on the configured VLAN of CDP management-address configuration. So removing CDP management-address configuration.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Unconfigured Management Address because the Primary IP was Removed

CDP.RemMgmtAddrSecNotExist

Description

The configured secondary IP address does not exists on the configured VLAN of CDP management-address configuration. So removing CDP management-address configuration.

Remedy

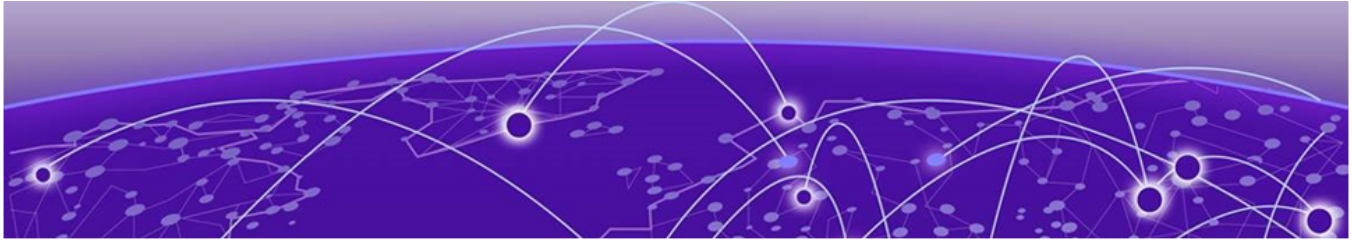
No action required - Notification message only.

Severity

Notice

Message Text

Unconfigured Management Address because the Secondary IP was Removed



CFM Messages

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CFM.RxPktDump on page 560
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CFM.RxPktFail on page 561
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CFM.RecvACLClbk on page 564
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CFM.RxPktCflct on page 565
CFM.TxPkt on page 566
CFM.TxPktDump on page 567
CFM.TxPktFail on page 567
CFM.TxPktOvrfl on page 568
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CFM.InitDone

Description

This message gets logged when the dot1ag module is ready for operations. It will also show the mode is started in. Which is either "Slow Path" mode, where all dot1ag packets are processed slow path, or "HW Support" where ACLs are used to forward certain dot1ag packets.

Remedy

This is an informational message and requires no action.

Severity

Info

Message Text

IEEE 802.1ag module has initialized, and running in `%mode%` mode.

Message Parameters

Name	Type
mode	String

CFM.RxPkt

Description

This message is logged every time a dot1ag packet is received on a port.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Received a `%size%` bytes cfm packet on port `%port%`, vlan-tag `%tag%`.

Message Parameters

Name	Type
port	ingressSlotPort
tag	VLAN-tag
size	uInt32

CFM.RxPktDump

Description

This message is logged every time a dot1ag packet is received on a port. This specific message will also dump the content of the packet.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Received a `%size%` bytes cfm packet on port `%port%`, vlan-tag `%tag%`.

Message Parameters

Name	Type
port	ingressSlotPort
tag	VLAN-tag
buffer	Buf-ptr
size	Buf-len

CFM.AllocSockFail

Description

The IEEE 802.1ag application failed to open a communication channel with the system to communicate with the outside world.

Remedy

When this happens not packets can be send out, or received from the network. See if restarting the process solves this problem. Under normal circumstances this should not happen, however if it does, please escalate to engineering.

Severity

Error

Message Text

Failed to allocate global dot1ag packet socket, error: `%errormsg%`.

Message Parameters

Name	Type
errormsg	String

CFM.RxPktFail

Description

This message will return the error message received by the recvExpkt() function.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support. The error message returned is the Linux socket error, and should clarify the error. If this is not the case, please contact engineering.

Severity

Debug-Summary

Message Text

The recvExpkt() function returned error; `%error%`

Message Parameters

Name	Type
error	String

CFM.AddIngrFilt

Description

This message gets logged every time an ACL filter is added to a vpif.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Added Ingres filter type `%newFilter%`, on port `%port%`, vlan `%vlan%`, previous filter `%oldFilter%`

Message Parameters

Name	Type
port	SlotPort
vlan	VLAN

Name	Type
oldFilter	sInt
newFilter	sInt

CFM.DelIngrFilt

Description

This message gets logged every time an ACL filter gets deleted from a vpif.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Delete Ingres filter type `%filter%`, from port `%port%`, vlan `%vlan%`

Message Parameters

Name	Type
port	SlotPort
vlan	VLAN
filter	sInt

CFM.BndIngrFilt

Description

This message gets logged every time an ACL filter needs to be bound to a vpif.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Bind Ingres filter on port `%port%`, vlan `%vlan%`, agVpif `%agvpif%`, vlanMPCount `%vlanMPCount%`

Message Parameters

Name	Type
port	SlotPort
vlan	VLAN
agvpif	Ptr
vlanMPCount	uInt

CFM.RecvACLClbk

Description

This message logs all call backs received from the ACL Manager.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

aclMsgCallback() returned \"`%rcString%`\" [`%rc%`] for command `%cmd%`

Message Parameters

Name	Type
cmd	xInt
rc	sInt
rcString	String

CFM.RxPktInv

Description

When a CFM PDU is received but does not pass the validation test this event gets logged.

Remedy

Determine which device is generating this CFM PDU, and investigate why it's sending out a malformed CFM PDU.

Severity

Notice

Message Text

Received invalid cfm on port `%port%`, VLAN \"`%vlan%`\"; `%error%`

Message Parameters

Name	Type
port	ingressSlotPort
vlan	VLAN
error	String

CFM.RxPktCflct

Description

This event gets logged when a CFM PDU gets processed by the CPU, but not active configuration is present.

Remedy

This is not a faulty condition, but it indicates that no valid configuration is present, and a CFM PDU for the specific vpif has come to the CPU. This can happen for example with broadcast/multicast packets as a copy will be send to the CPU. Unicast CFM PDUs (not send to the switch MAC address) should not end up at the CPU, if this happens an ACL might not be programmed correctly. This is not true in a i386 environment, as all packets end up at the CPU.

Severity

Debug-Verbose

Message Text

Received cfm packet on port `%port%`, VLAN \"`%vlan%`\", which conflicts with user configuration

Message Parameters

Name	Type
port	ingressSlotPort
vlan	VLAN

CFM.TxPkt

Description

This message is logged every time a dot1ag packet is transmitted on a set of ports. Note that mgmt is displayed if the port entry is not valid, this happens when the number of outgoing ports is less than 7

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Transmitted `%size%` bytes cfm packet on vlan \"`%vlan%`\", and `%ports%` ports; `%p1%`, `%p2%`, `%p3%`, `%p4%`, `%p5%`, `%p6%`, `%p7%`

Message Parameters

Name	Type
vlan	VLAN
size	uInt32
ports	uInt
p1	egressSlotPort

Name	Type
p2	egressSlotPort
p3	egressSlotPort
p4	egressSlotPort
p5	egressSlotPort
p6	egressSlotPort
p7	egressSlotPort

CFM.TxPktDump

Description

This message is logged every time a dot1ag packet is transmitted on a set of ports.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Transmitted `%size%` bytes cfm packet on vlan \"`%vlan%`\", and `%ports%` ports

Message Parameters

Name	Type
vlan	VLAN
ports	uInt
buffer	Buf-ptr
size	Buf-len

CFM.TxPktFail

Description

This message is logged every time a dot1ag packet could not be transmitted. The error code returned is the standard Linux errno value. Note that mgmt is displayed if the port entry is not valid, this happens when the number of outgoing ports is less than 6

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Transmitted `%size%` bytes cfm packet failed on vlan \"`%vlan%`\", and `%ports%` ports; `%p1%`, `%p2%`, `%p3%`, `%p4%`, `%p5%`, `%p6%`, error `%error%`

Message Parameters

Name	Type
vlan	VLAN
size	uInt
ports	uInt
p1	egressSlotPort
p2	egressSlotPort
p3	egressSlotPort
p4	egressSlotPort
p5	egressSlotPort
p6	egressSlotPort
error	sInt

CFM.TxPktOvrfl

Description

This message is logged every time a dot1ag packet could not be transmitted due to a buffer overflow.

Remedy

When packets with a unicast destination need to be send they are tempereraly stored while waiting for a FDB lookup. The numbers of packets being buffered is limited, to not allow huge memory consumption. If this message gets logged often the network layout needs to be analyzed. This so the hard coded buffer limit can be adjusted.

Severity

Debug-Summary

Message Text

Cfm packet Tx failed for `%mac%` on vlan \"`%vlan%`\" due to buffer overflow.

Message Parameters

Name	Type
vlan	VLAN
mac	MAC

CFM.CCIEventOcc

Description

This message is logs all event related to the CCI state machine for debugging purposes.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

[`%port%`/`%vlan%`/`%type%`/`%level%`]CCI event \"`%event%`\", state \"`%state%`\", CCMenable=`%enable%`, CCIwhile=`%cciwhile%`

Message Parameters

Name	Type
port	xInt32
vlan	uInt32
event	String
state	String
enable	String
cciwhile	uInt32

Name	Type
type	uInt32
level	uInt32

CFM.rMEPEventOcc

Description

This message is logs all event related to the rMEP state machine for debugging purposes.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

[%port%/%vlan%/%type%/%level%/%mepid%/%mac%]rMEP event \"%event%\", state \"%state%\", nCCMRx=%ccmrecv%, rmMepwhile=%rmepwhile%

Message Parameters

Name	Type
port	xInt32
vlan	uInt32
type	uInt32
level	uInt32
mepid	uInt16
mac	MAC
event	String
state	String
ccmrecv	String
rmepwhile	uInt32

CFM.MEPIDMACChg

Description

This message gets logged when the MAC address associated with a remote MEP changes.

Remedy

This could happen if more than one MEP is configured with the same MEPID (duplicate MEPID in a single domain), or when a switch is replaced.

Severity

Notice

Message Text

MAC address for remote MEP changed from `%old%` to `%new%` on `%type%`, domain \"`%domain%`\", ma \"`%ma%`\", port `%port%`

Message Parameters

Name	Type
old	MAC
new	MAC
type	String
domain	String
ma	String
port	SlotPort

CFM.SameMEPIDRx

Description

This message gets logged when the MPs own MEP-ID was dected on a incomming CCM CFM.

Remedy

This can happen either due to a loop in the network, or when another MP in the same domain is using the same MEP-ID. Make sure the configured MEP-ID is unique inside the configured domain.

Severity

Notice

Message Text

Received CCM from %mac% with our MEP-ID on %type%, domain \"%domain%\", ma \"%ma%\", port %port%

Message Parameters

Name	Type
mac	MAC
type	String
domain	String
ma	String
port	SlotPort

CFM.rMEPExp

Description

When a learned End-Point expires this message is logged.

Remedy

This can either happen when the end-point is no longer present in the system, or when the path to this end-point is down.

Severity

Warning

Message Text

Remote End-Point %mepid%/%mac% expired on %type%, domain \"%domain%\", ma \"%ma%\", port %port%

Message Parameters

Name	Type
mepid	uInt16
mac	MAC

Name	Type
type	String
domain	String
ma	String
port	SlotPort

CFM.LTIEventOcc

Description

This message is logs all event related to the CCI state machine for debugging purposes.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

[%port%/%vlan%/%type%/%level%]LTI event \"%event%\", state \"%state%\", LTIactive=%enable%, LTIwhile=%ltiwhile%, recvdLTR=%recvdLTR%

Message Parameters

Name	Type
port	xInt32
vlan	uInt32
type	uInt32
level	uInt32
event	String
state	String
enable	String
ltiwhile	uInt32
recvdLTR	String

CFM.LBIEventOcc

Description

This message is logs all event related to the LBI state machine for debugging purposes.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

[%port%/%vlan%/%type%/%level%]LBI event \"%event%\", state \"%state%\", LBIactive=%enable%, LBIwhile=%lbiwhile%, LBMsToSend=%lbms%

Message Parameters

Name	Type
port	xInt32
vlan	uInt32
type	uInt32
level	uInt32
event	String
state	String
enable	String
lbiwhile	uInt32
lbms	uInt32

CFM.RxPktUnk

Description

This event gets logged when a CFM PDU gets processed by the CPU, but should have been forwarded by hardware due to a higher MD Level than configured on the VLAN/Port combination.

Remedy

This should not happen, as hardware will forward CFM PDU with a multicast destination higher than the VLAN/Ports MD level in hardware. This could be a hardware problem, but it can also happen due to a CLI change in the configured MD level. If this is due to the MD Level change it should only happen during the time the Switch is processing the changes required for this MD Level change.

Severity

Notice

Message Text

Received cfm packet on port `%port%`, VLAN \"`%vlan%`\" for a MD Level higher than the configured one

Message Parameters

Name	Type
port	ingressSlotPort
vlan	VLAN

CFM.rMEPErrEventOcc

Description

This message is logs all event related to the RMEP Error state machine for debugging purposes.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

[`%port%`/`%vlan%`/`%type%`/`%level%`]RMEP Error event \"`%event%`\", state \"`%state%`\", errorCCMdefect=`%enable%`, errorCCMwhile=`%eCCMwhile%`, errorCCMreceived=`%eCCMrecv%`

Message Parameters

Name	Type
port	xInt32
vlan	uInt32
type	uInt32
level	uInt32
event	String
state	String
enable	String
eCCMwhile	uInt32
eCCMrecv	String

CFM.MEPXConEventOcc

Description

This message is logs all event related to the MEP Error state machine for debugging purposes.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

[`%port%`/`%vlan%`/`%type%`/`%level%`]MEP Cross Connect event \"`%event%`\", state \"`%state%`\", xconCCMdefect=`%enable%`, xconCCMwhile=`%xCCMwhile%`, xconCCMreceived=`%xCCMrecv%`

Message Parameters

Name	Type
port	xInt32
vlan	uInt32
type	uInt32
level	uInt32

Name	Type
event	String
state	String
enable	String
xCCMwhile	uInt32
xCCMrecv	String

CFM.MEPFNGEventOcc

Description

This message is logs all event related to the MEP Fault Notification Generation state machine for debugging purposes.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

[%port%/%vlan%/%type%/%level%]MEP Fault Notification event \"%event%\", state \"%state%\", someMACstatusDefect=%MACenable%, fngWhile=%fngWhile%, someRMEPCCMdefect=%rMepCCMenable%, someRDIdefect=%RDIenable%

Message Parameters

Name	Type
port	xInt32
vlan	uInt32
type	uInt32
level	uInt32
event	String
state	String
MACenable	String
fngWhile	uInt32

Name	Type
rMepCCMenable	String
RDIenable	String

CFM.MEPExp

Description

When a learned End-Point expires this message is logged.

Remedy

This can either happen when the end-point is no longer present in the system, or when the path to this end-point is down.

Severity

Warning

Message Text

Maintenance End-Point `%mepid%` Error `%errorType%` occurred on `%type%`, domain \"`%domain%`\", ma \"`%ma%`\", port `%port%`

Message Parameters

Name	Type
mepid	uInt16
errorType	String
type	String
domain	String
ma	String
port	SlotPort

CFM.AddFDBFail

Description

This message is logged when the addition of FDB entry fails.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Failed to add FDB entry for MAC `%mac%` on VLAN \"`%vlan%`\"

Message Parameters

Name	Type
mac	String
vlan	String

CFM.DelFDBFail

Description

This message is logged when the deletion of FDB entry fails.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Failed to delete FDB entry for MAC `%mac%` on VLAN \"`%vlan%`\"

Message Parameters

Name	Type
mac	String
vlan	String

CFM.CreatStaticrMEPFail

Description

This message is logged when the addition of static remote MEP entry fails.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Failed to create static RMEP entry for mepid `%mepid%` MAC `%mac%`

Message Parameters

Name	Type
mepid	uInt16
mac	String

CFM.SendCkptFail

Description

This message is displayed when the master MSM to Backup MSM message send is failed.

Remedy

Check the status of Backup MSM

Severity

Warning

Message Text

`%reason%`

Message Parameters

Name	Type
reason	Printf

CFM.CreatThreadFail

Description

Unable to create dot1ag Thread

Remedy

Restart dot1ag process.

Severity

Warning

Message Text

Failed to create `%threadname%` error `%value%`

Message Parameters

Name	Type
threadname	String
value	uInt

CFM.FrameDlyAlarm

Description

This message is logged when the frame delay of a cfm segment go beyond the alarm threshold limit.

Remedy

This could happen if there occurs a occurs a congestionin the network between two end-points

Severity

Warning

Message Text

Cfm Segment `%segName%` : Frame delay for `%value%` percent of frames have crossed alarm threshold

Message Parameters

Name	Type
segName	String
value	uInt16

CFM.ClrFrameDlyAlarm

Description

This message is logged when the alarm is cleared for a cfm segment.

Remedy

This could happen if an existing in the network between the two end-points goes away

Severity

Warning

Message Text

Cfm Segment `%segName%` : Clearing alarm

Message Parameters

Name	Type
segName	String

CFM.CreatSegFail

Description

This message is logged when the creation of a cfm segment fail.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Failed to create cfm segment `%segName%`

Message Parameters

Name	Type
segName	String

CFM.RxDMRPkt

Description

Received a response (DMR) for the DMM that has been transmitted. This log will give all the four timestamps that are carried by the DMR, which are used to calculate the delay. The frame delay info is also displayed.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Cfm Segment `%segName%` received DMR with TxF: `%txF%` RxF: `%rxF%` TxB: `%txB%` RxB: `%rxB%` Delay: `%delay%`

Message Parameters

Name	Type
segName	String
txF	String
rxF	String
txB	String
rxB	String
delay	uInt16

CFM.VplsDebug

Description

Debug

Remedy

None

Severity

Debug-Summary

Message Text

`%debugMsg%`

Message Parameters

Name	Type
debugMsg	Printf

CFM.RxLMRPkt

Description

Received a response (LMR) for the LMM that has been transmitted. This log will give all the four Frame Counters that are used in the Frame Loss Measurement. Near End and Far End Frame Loss Ratio is also displayed.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

CFM Segment `%segName%` MEP `%mepId%` received LMR with TxF: `%txFCf%` RxF: `%rxFCf%` TxB: `%txFCb%` RxL: `%rxFCl%` NE FLR: `%neFlr%` FE FLR: `%feFlr%`

Message Parameters

Name	Type
segName	String
mepId	uInt16
txFCf	uInt32
rxFCf	uInt32
txFCb	uInt32
rxFCl	uInt32
neFlr	String
feFlr	String

CFM.DtectCFMSegUnavail

Description

This message is logged when the Near End or Far End Frame Loss Ratio goes beyond the configured SES threshold consecutively for the configured measurement intervals.

Remedy

If there is an alternate path available for this path, consider switching the traffic to an alternate path.

Severity

Warning

Message Text

Unavailability detected for CFM segment `%segName%` MEP ID `%mepId%` at `%unavailTime%`

Message Parameters

Name	Type
segName	String
mepId	uInt16
unavailTime	String

CFM.DtectCFMSegAvail

Description

This message is logged when the Near End or Far End Frame Loss Ratio remains below the configured SES threshold consecutively for the configured measurement intervals.

Remedy

If the traffic was switched to an alternate path when the CFM segment was unavailable, consider switching the traffic back to the primary path based on the administrative policy.

Severity

Warning

Message Text

Availability detected for CFM segment `%segName%` MEP ID `%mepId%` at `%availTime%`

Message Parameters

Name	Type
segName	String
mepId	uInt16
availTime	String

CFM.TxCCM

Description

Says Whether "Y1731" type of CCM with specific MEG ID format is transmitted by a MEP in a MEG with the given MEG level or "Dot1ag" type of CCM with specific MAID format is transmitted by a MEP in an MA with given MD level

Remedy

No action required - Informational message only

Severity

Debug-Data

Message Text

\"%type%\" CCM of %format% format transmitted by MEP %mepid% of %matype% \"%maname%\" level %mdlevel%

Message Parameters

Name	Type
type	String
format	String
mepid	uInt16
matype	String
maname	String
mdlevel	uInt8

CFM.RxCCM

Description

Says if "Y1731" type of CCM with specific MEG ID format is received by a MEP in a MEG with the given MEG level or "Dot1ag" type of CCM with specific MAID format is received by a MEP in an MA with given MD level

Remedy

No action required - Informational message only

Severity

Debug-Data

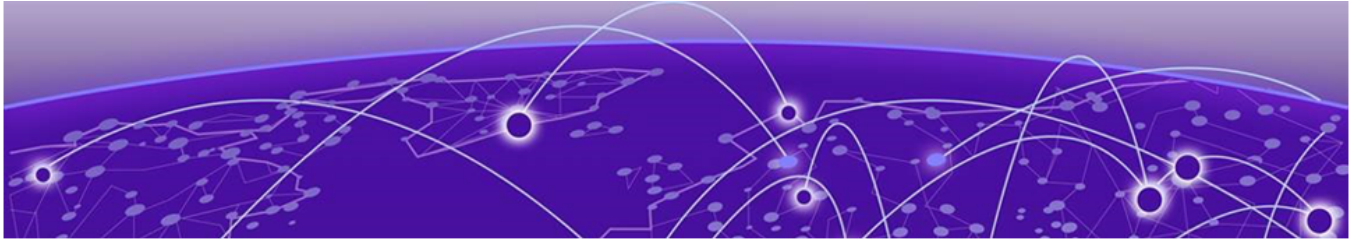
Message Text

\"%type%\" CCM of %format% format received from MEP %mepid% of %matype% \"%maname%\" level %mdlevel%

Message Parameters

Name	Type
type	String
format	String
mepid	uInt16
matype	String

Name	Type
maname	String
mdlevel	uInt8



CFM.HwOAM Messages

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CFM.HwOAM.RecvClrFault

Description

This event will occur when any of the faults like CCM_TIMEOUT or XCON or ERROR_CCM or REMOT_CCM are cleared. It indicates that CFM is back to normal operation when no other errors are present.

Remedy

No action required - Informational message only

Severity

Info

Message Text

Received \"`%type%`\" mepid `%mepid%` domain \"`%domain%`\" assoc \"`%assoc%`\" vlan \"`%vlanName%`\" port `%port%` fault \"`%error%`\" clear from HwaOAM

Message Parameters

Name	Type
type	String
mepid	uInt16
domain	String

Name	Type
assoc	String
vlanName	String
port	SlotPort
error	String

CFM.HwOAM.FwdEventNtfn

Description

Dot1ag acts as a pass through client here and forwards events like RMEP expiry/detect, LMEP XCON error/clear, CCM_ERROR error/clear, REMOTE_CCM error/clear etc to the client whenever HwOAM notifies them.

Remedy

In all these cases, either the RMEP entry is removed if it is dynamically learnt or the Inactive flag is set in case of static RMEP which can be observed in "show cfm detail"

Severity

Notice

Message Text

Forwarding \"`%type%`\" mepId `%mepid%` domain \"`%domain%`\" assoc \"`%assoc%`\" vlan `%vlanId%` port `%port%` event `%event%` to the client

Message Parameters

Name	Type
type	String
mepid	uInt16
domain	String
assoc	String
vlanId	uInt16
port	SlotPort
event	String

CFM.HwOAM.SendLMEPReq

Description

Dot1ag sends an Local MEP create/update/delete request to HwOAM with the required parameters whenever user/client configures an Local MEP.

Remedy

No action required - Informational message only

Severity

Debug-Data

Message Text

Sending `%reqType%` request, maid \"`%maid%`\" level `%level%` mep `%mepid%` vlan `%vlanId%` port `%port%` CCMInterval `%interval%` mepFlags `%flags%` RMEPs `%numRmeps%` to HwOAM

Message Parameters

Name	Type
reqType	String
maid	String
level	uInt8
mepid	uInt16
vlanId	uInt16
port	SlotPort
interval	uInt16
flags	uInt8
numRmeps	uInt16

CFM.HwOAM.SendRMEPReq

Description

Dot1ag sends an Remote MEP create/update/delete request to HwOAM with the required parameters whenever user/client configures an Remote MEP

Remedy

No action required - Informational message only

Severity

Debug-Data

Message Text

Sending `%reqType%`, maid \"`%maid%`\" level `%level%` mep `%mepid%` vlan `%vlanId%` CCMInterval `%interval%` ports `%numPorts%` to HwOAM

Message Parameters

Name	Type
reqType	String
maid	String
level	uInt8
mepid	uInt16
vlanId	uInt16
interval	uInt8
numPorts	uInt16

CFM.HwOAM.RecvMEPFault

Description

Dot1ag receives this event, whenever a fault namely CCM_TIMEOUT or XCON or ERROR_CCM or REMOT_CCM occurs on a MEP of type "LMEP" or "RMEP".

Remedy

If the fault is for a Remote MEP, the Inactive flag is set which can be observed in "show cfm detail". If the fault is for a Local MEP, "show cfm" displays the respective error.

Severity

Notice

Message Text

Received \"`%type%`\" mepid `%mepid%` domain \"`%domain%`\" assoc \"`%assoc%`\" vlan \"`%vlanName%`\" port `%port%` fault \"`%error%`\"

Message Parameters

Name	Type
type	String
mepid	uInt16
domain	String
assoc	String
vlanName	String
port	SlotPort
error	String

CFM.HwOAM.RecvMEPClntReply

Description

Dot1ag receives a reply with status success/faialure/timeout for a Clinet Local/Remote MEP configuration request of type CREATE or UPDATE or DELETE

Remedy

Dot1ag acts as a pass through client here and forwards the reply to the respective client

Severity

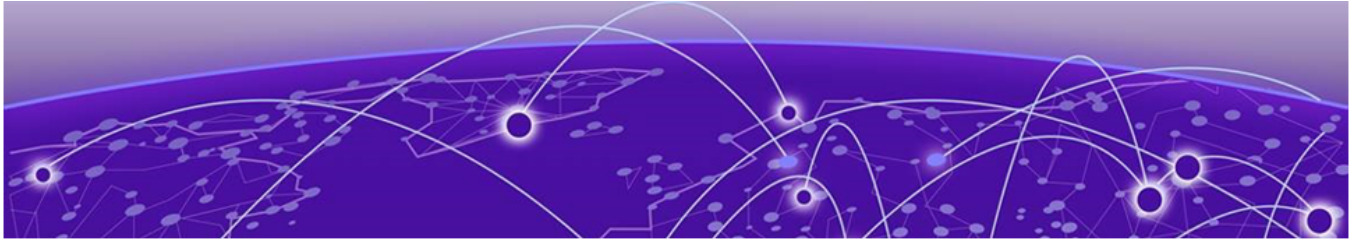
Debug-Data

Message Text

Received `%reqType%` reply with status `%status%` for client `%clientid%` `%mepType%` `%mepid%`

Message Parameters

Name	Type
reqType	String
status	uInt8
clientid	uInt32
mepType	String
mepid	uInt16



CFM.Server Messages

CFM.Server.RecvLMEPReq on page 594
CFM.Server.RecvRMEPReq on page 595
CFM.Server.SendMEPReply on page 596
CFM.Server.SendEventNtfn on page 596
CFM.Server.NtfyGrpStatusDown on page 597
CFM.Server.NtfyGrpStatusUp on page 598
CFM.Server.RecvRegGrpReq on page 598
CFM.Server.RecvUnregGrpReq on page 599
CFM.Server.SendRegGrpRspns on page 599
CFM.Server.SendUnregGrpRspns on page 600

CFM.Server.RecvLMEPReq

Description

Clients like ERPS sends a Local MEP create/update/delete request to dot1ag with the required parameters.

Remedy

No action required - Informational message only

Severity

Debug-Data

Message Text

Received `%reqType%` request, domain \"`%domain%`\" assoc \"`%assoc%`\" level `%level%` \ `%mepType%`\" MEP `%mepid%` port `%port%` CCMInterval `%interval%` from the client

Message Parameters

Name	Type
reqType	String
domain	String
assoc	String
level	uInt8
mepType	String
mepid	uInt16
port	SlotPort
interval	uInt32

CFM.Server.RecvRMEPReq

Description

Clients like ERPS sends a Remote MEP create/update/delete request to dot1ag with the required parameters.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Received `%reqType%` request, domain \"`%domain%`\" assoc \"`%assoc%`\" level `%level%` LMEPs `%noLmeps%` from the client

Message Parameters

Name	Type
reqType	String
domain	String
assoc	String
level	uInt8
mepid	uInt16
noLmeps	uInt16

CFM.Server.SendMEPReply

Description

dot1ag indicates to the client whether a Local/Remote MEP create/update/delete request is succeeded or failed.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Sending \"`%reqType%`\" reply for \"`%mepType%`\" MEP, with exit code `%code%`

Message Parameters

Name	Type
reqType	String
mepType	String
code	sInt32

CFM.Server.SendEventNtfn

Description

This event will occur upon conditions like RMEP expiry/detect, LMEP XCON error/clear, CCM_ERROR error/clear, REMOTE_CCM error/clear etc and dot1ag notifies them to the registered clients. In all these cases, either the RMEP entry is removed if it is dynamically learnt or the Inactive flag is set in case of static RMEP which can be observed in "show cfm detail".

Remedy

No action required - Informational message only. Dot1ag registered clients actually respond to this event and take necesary action.

Severity

Notice

Message Text

dot1ag Sending \"%mepType%\" Event, LMEP %lmepid% RMEP %rmepid% RMEPUp %rmepUp% callbackType %callback% to client

Message Parameters

Name	Type
mepType	String
lmepid	uInt16
rmepid	uInt16
rmepUp	uInt8
callback	uInt8

CFM.Server.NtfyGrpStatusDown

Description

Dot1ag informs its clients when the CFM group goes down. "show cfm groups" displays the group status, "show cfm" displays the associated Local MEP Faulting State and respective error, "show cfm detail" displays associated RemoteMEP(s) state(s) Inactive.

Remedy

No action required - Informational message only. Clients take necessary action.

Severity

Notice

Message Text

Notifying the clients with Group \"%name%\", associated to Local MEP %mepid%, Status Down

Message Parameters

Name	Type
name	String
mepid	uInt16

CFM.Server.NtfyGrpStatusUp

Description

Dot1ag informs its clients when the CFM group goes up. "show cfm groups" displays the group status, "show cfm" displays the associated Local MEP Faulting State set to 'No', "show cfm detail" displays associated RemoteMEP(s) state(s) Active

Remedy

No action required - Informational message only. Clients take necessary action.

Severity

Notice

Message Text

Notifying the clients with Group \"`%name%`\", associated to Local MEP `%mepid%`, Status Up

Message Parameters

Name	Type
name	String
mepid	uInt16

CFM.Server.RecvRegGrpReq

Description

Dot1ag received a Group registration Request from a client. Check if client is registered or not using "show cfm groups".

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Received Group \"`%name%`\" registration request from client \"`%client%`\"

Message Parameters

Name	Type
name	String
client	String

CFM.Server.RecvUnregGrpReq

Description

Dot1ag received a Group unregistration Request from a client. Check if client is unregistered or not using "show cfm groups"

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Received Group \"%name%\" unregistration request from client \"%client%\"

Message Parameters

Name	Type
name	String
client	String

CFM.Server.SendRegGrpRspns

Description

Dot1ag sending Group registration response to a client with success or respective failure code

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Send Group \"%name%\" registration response %rc% to client \"%client%\"

Message Parameters

Name	Type
name	String
rc	sInt16
client	String

CFM.Server.SendUnregGrpRspns

Description

Dot1ag sending Group unregistration response to a client with success or respective failure code

Remedy

No action required - Informational message only

Severity

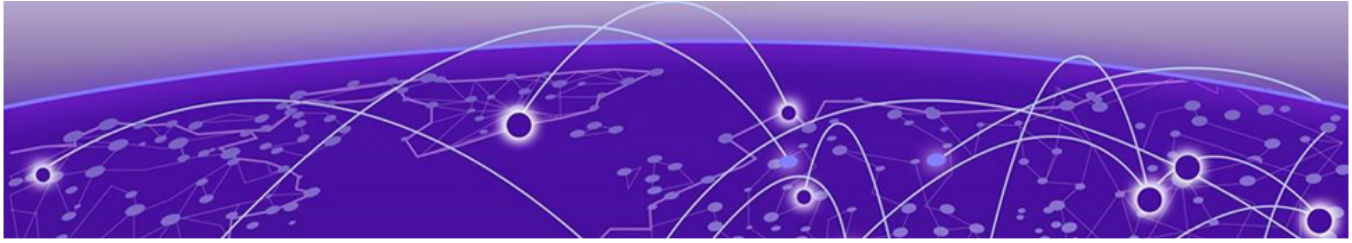
Debug-Verbose

Message Text

Send Group \"%name%\" unregistration response %rc% to client \"%client%\"

Message Parameters

Name	Type
name	String
rc	sInt16
client	String



cli Messages

cli.logLocalCmd on page 601
cli.logRemoteCmd on page 602
cli.clearflowExecError on page 602
cli.cliOutError on page 603
cli.TermScrptTmout on page 603
cli.OpenJournalFail on page 604
cli.RenameJournalFail on page 605
cli.CmdNotPmt on page 605

cli.logLocalCmd

Description

User has issued the command locally (serial or internal clearflow exection).

Remedy

This log is informational and records the CLI commands the local user has been issuing. No remedy is required.

Severity

Info

Message Text

```
%type% %user%: %command%
```

Message Parameters

Name	Type
type	String
user	AccountName
command	String

cli.logRemoteCmd

Description

User from the remote IP address has issued the logged CLI command.

Remedy

This log is informational and records the CLI commands the remote user has been issuing. No remedy is required.

Severity

Info

Message Text

`%ipaddr%` (`%type%`) `%user%`: `%command%`

Message Parameters

Name	Type
ipaddr	String
type	String
user	AccountName
command	String

cli.clearflowExecError

Description

Clearflow CLI commands issued from _src_ are not executed successfully completely.

Remedy

Manually apply the specific clearflow CLI to the EXOS device. No remedy is required.

Severity

Error

Message Text

`%src%` CLI execution error: `%error%`.

Message Parameters

Name	Type
src	String
error	String

cli.cliOutError

Description

CLI.OUT reached its max size.

Remedy

Reset CLI.OUT to use again. No remedy is required.

Severity

Error

Message Text

`%error%`.

Message Parameters

Name	Type
error	String

cli.TermScrptTmout

Description

The script execution was aborted as it exceeded the timeout value. To see the output of default.xsf and autoexec.xsf, please use the CLI command "show script output [default | autoexec]". The line number where the script aborted is displayed on the session.

Remedy

If this is unexpected, either reduce the length of the script or increase the timeout value using the CLI command "configure script timeout <time>".

Severity

Warning

Message Text

Aborting the loading of `%filename%` as it exceeded `%timeout%` seconds.

Message Parameters

Name	Type
filename	String
timeout	uInt

cli.OpenJournalFail

Description

The attempt to open a new journal file of the name filename indicated by failed due to the reason provided.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Warning

Message Text

Failed to open the journal file, `%filename%` , `%reason%`

Message Parameters

Name	Type
filename	String
reason	String

cli.RenameJournalFail

Description

The attempt to rename the journal file from current name to the saved name failed.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Warning

Message Text

Failed to rename journal file from `%current%` to `%saved%`

Message Parameters

Name	Type
current	String
saved	String

cli.CmdNotPmt

Description

User does not have permission to execute this command.

Remedy

No action required - Notification message only.

Severity

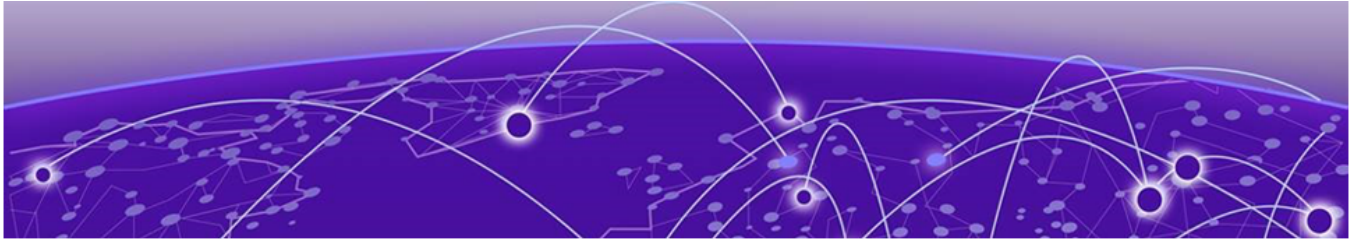
Notice

Message Text

User `%user%`: This user does not have permissions for this command: `%command%`

Message Parameters

Name	Type
user	AccountName
command	String



cli.Legacy Messages

cli.Legacy.UninstlModAltPartOK on page 607
cli.Legacy.UninstlModCurPartOK on page 608
cli.Legacy.InstlModCurPartOK on page 608
cli.Legacy.InstlModAltPartOK on page 609
cli.Legacy.ModInstl on page 609
cli.Legacy.ModNotInstl on page 610
cli.Legacy.LcnsNotEnbl on page 610

cli.Legacy.UninstlModAltPartOK

Description

Uninstalled request for Legacy CLI module in alternate Partition is executed successfully.

Remedy

This is a debug log and records every Successfull uninstall request for debugging purpose. No remedy is required.

Severity

Debug-Summary

Message Text

Legacy Module with Package Type \"`%pkgType%`\" Uninstalled successfully from alternate Partition.

Message Parameters

Name	Type
pkgType	String

cli.Legacy.UninstlModCurPartOK

Description

Uninstalled request for Legacy CLI module in current Partition is executed successfully

Remedy

This is a debug log and records every successfull Legacy CLI Uninstall request. No remedy is required.

Severity

Debug-Summary

Message Text

Legacy Module with Package Type \"`%pkgType%`\" Uninstalled successfully from current Partition.

Message Parameters

Name	Type
pkgType	String

cli.Legacy.InstlModCurPartOK

Description

Installed request for Legacy CLI module in current Partition is executed successfully.

Remedy

This is a debug log and records Legacy CLI Module installation for debugging purpose. No remedy is required.

Severity

Debug-Summary

Message Text

Legacy Module with Package Type \"`%pkgType%`\" Installed successfully in Current Partition.

Message Parameters

Name	Type
pkgType	String

cli.Legacy.InstlModAltPartOK

Description

Installed request for Legacy CLI module in Alternate Partition is executed successfully.

Remedy

This is a debug log and records Legacy CLI Installation request for debugging purpose. No remedy is required.

Severity

Debug-Summary

Message Text

Legacy Module with Package Type \"`%pkgType%`\" Installed successfully in Alternate Partition.

Message Parameters

Name	Type
pkgType	String

cli.Legacy.ModInstl

Description

Legacy CLI module is Installed in the system previously and now it's available to use.

Remedy

This is info Message, No remedy is required.

Severity

Info

Message Text

Legacy CLI module is Now available for Use

cli.Legacy.ModNotInstl

Description

Legacy module is not installed yet. System failed to search Legacy CLI module inside switch.

Remedy

This is info Message, No remedy is required.

Severity

Info

Message Text

Legacy CLI module is not installed.

cli.Legacy.LcnsNotEnbl

Description

This is generic message when no license is available for Legacy CLI.

Remedy

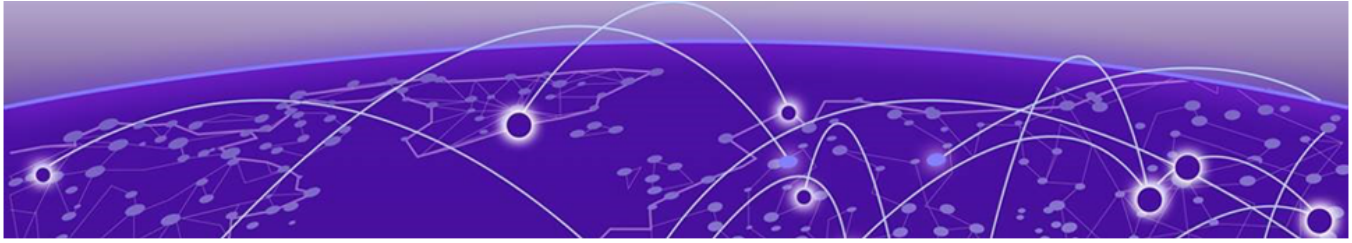
This is a debug log and records license events for debugging purpose. No remedy is required.

Severity

Debug-Summary

Message Text

Legacy CLI license is not enabled.



cli.shell Messages

cli.shell.connect on page 611
cli.shell.disconnect on page 612
cli.shell.executionRecv on page 612
cli.shell.completionRecv on page 613
cli.shell.executionBegin on page 613
cli.shell.executionEnd on page 614
cli.shell.completionBegin on page 615
cli.shell.completionEnd on page 615
cli.shell.idleTimeout on page 616

cli.shell.connect

Description

CLI configuration shell connected.

Remedy

This is a debug log and records every CLI shell connection for debugging purpose. No remedy is required.

Severity

Debug-Summary

Message Text

CLI configuration shell `%shell%` CONNECTED!

Message Parameters

Name	Type
shell	uInt

cli.shell.disconnect

Description

CLI configuration shell disconnected.

Remedy

This is a debug log and records every CLI shell disconnection for debugging purpose. No remedy is required.

Severity

Notice

Message Text

CLI configuration shell `%shell%` DISCONNECTED!

Message Parameters

Name	Type
shell	uInt

cli.shell.executionRecv

Description

Received command execution from CLI configuration shell.

Remedy

This is a debug log and records every CLI command received for execution. No remedy is required.

Severity

Debug-Summary

Message Text

Shell `%shell%` RECEIVED command execution \"`%command%`\"!

Message Parameters

Name	Type
shell	uInt
command	String

cli.shell.completionRecv

Description

Received command completion from CLI configuration shell.

Remedy

This is a debug log and records every CLI command completion request received. No remedy is required.

Severity

Debug-Verbose

Message Text

Shell `%shell%` RECEIVED command completion \"`%command%`\"!

Message Parameters

Name	Type
shell	uInt
command	String

cli.shell.executionBegin

Description

Begin command execution from CLI configuration shell.

Remedy

This is a debug log and records the beginning of every CLI command execution request received. No remedy is required.

Severity

Debug-Summary

Message Text

Shell `%shell%` BEGIN command execution \"`%command%`\" (PID = `%pid%`, TID = `%tid%`)!

Message Parameters

Name	Type
shell	uInt
command	String
pid	uInt
tid	uInt

cli.shell.executionEnd

Description

Finish command execution from CLI configuration shell.

Remedy

This is a debug log and records the completion of every CLI command execution request received. No remedy is required.

Severity

Debug-Summary

Message Text

Shell `%shell%` FINISH command execution \"`%command%`\" (PID = `%pid%`, TID = `%tid%`)!

Message Parameters

Name	Type
shell	uInt
command	String
pid	uInt
tid	uInt

cli.shell.completionBegin

Description

Begin command completion from CLI configuration shell.

Remedy

This is a debug log and records the beginning of every CLI command completion request received. No remedy is required.

Severity

Debug-Verbose

Message Text

Shell `%shell%` BEGIN command completion \"`%command%`\" (PID = `%pid%`, TID = `%tid%`)!

Message Parameters

Name	Type
shell	uInt
command	String
pid	uInt
tid	uInt

cli.shell.completionEnd

Description

Finish command completion from CLI configuration shell.

Remedy

This is a debug log and records the completion of every CLI command completion request received. No remedy is required.

Severity

Debug-Verbose

Message Text

Shell %shell% FINISH command completion \"%command%\" (PID = %pid%, TID = %tid%)!

Message Parameters

Name	Type
shell	uInt
command	String
pid	uInt
tid	uInt

cli.shell.idleTimeout

Description

CLI session has been idling for too long.

Remedy

This log is informational and records when a CLI session got timed out because of idling. No remedy is required.

Severity

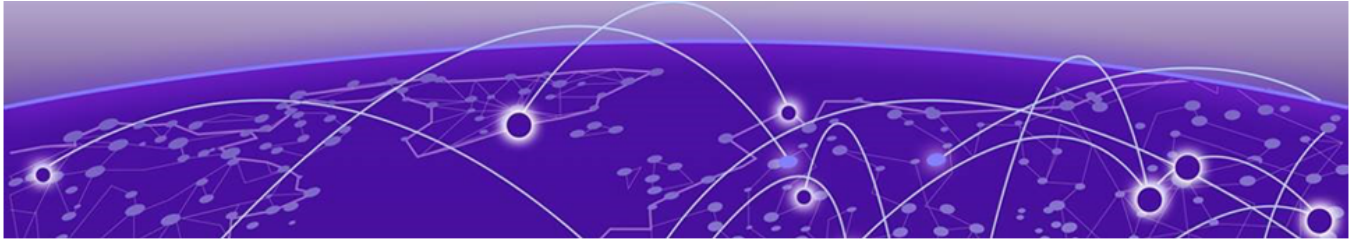
Notice

Message Text

CLI session %session% has been idling for %idleSeconds% seconds and has exceeded the idle timeout value of %idleTimeout% minute(s).

Message Parameters

Name	Type
session	uInt
idleSeconds	uInt
idleTimeout	uInt



cli.subagent Messages

cli.subagent.connect on page 617
cli.subagent.disconnect on page 617

cli.subagent.connect

Description

CLI application subagent connected.

Remedy

This is debug log that records when a CLI application client connects to the CLI server. No remedy is required.

Severity

Debug-Summary

Message Text

CLI application subagent `%subagent%` (\"`%name%`\") CONNECTED!

Message Parameters

Name	Type
subagent	uInt
name	String

cli.subagent.disconnect

Description

CLI application subagent disconnected.

Remedy

This is debug log that records when a CLI application client disconnects to the CLI server. No remedy is required.

Severity

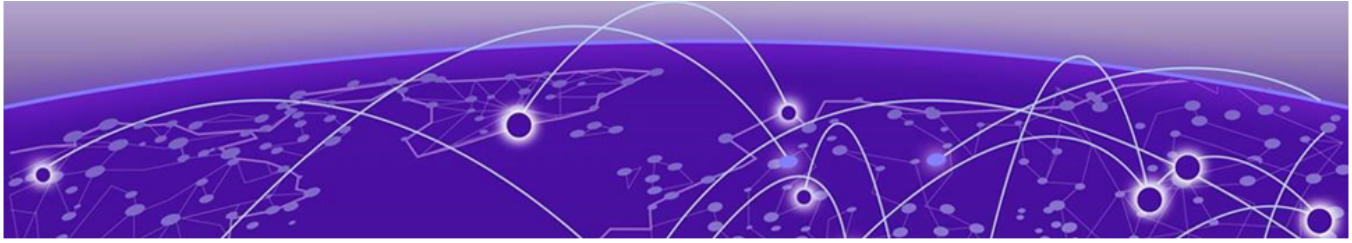
Debug-Summary

Message Text

CLI application subagent `%subagent%` (\"`%name%`\") DISCONNECTED!

Message Parameters

Name	Type
subagent	uInt
name	String



cm Messages

cm.nvramErr on page 620
cm.database on page 621
cm.reqDrop on page 621
cm.replyDrop on page 622
cm.syncErr on page 622
cm.chkpErr on page 623
cm.loadErr on page 624
cm.configSyncErr on page 624
cm.configNotInSync on page 625
cm.extCFNoSpace on page 625
cm.Warning on page 626
cm.Error on page 626
cm.Notice on page 627
cm.UseCfg on page 627
cm.CLILog on page 628
cm.Info on page 628
cm.DebugSummary on page 629
cm.CmdCnclUser on page 630
cm.CmdRejctSysRcvryStat on page 630
cm.CmdRejctSysCkptCfg on page 631
cm.CmdRejctSysLoadCfg on page 631
cm.CmdRejctSysSaveCfg on page 632
cm.CmdRejctNonPrim on page 632
cm.CmdRejctFileNameInv on page 633
cm.SaveCfgFailDirFull on page 634
cm.SaveCfgRejctNoFileName on page 634
cm.SaveCfgFailWaitSetCmplt on page 634
cm.SaveCfgFail on page 635
cm.SaveCfgWritFailErr on page 636
cm.SaveCfgDone on page 636
cm.SaveCfgCkptBkupFail on page 637
cm.SaveCfgFailAsyncErr on page 637
cm.SaveCfgAuto on page 638
cm.SaveCfgRejctArgInv on page 638

cm.SaveCfgCkptStbyFail on page 639
cm.SaveCfgCkptStbyOK on page 639
cm.SaveCfgCkptBkupOK on page 640
cm.SetGlobCfgDirtyFlag on page 640
cm.ExtStorIns on page 641
cm.ExtStorRem on page 641
cm.ExtStorUnMntCoreDumpInv on page 641
cm.AddLogFileDsptchFail on page 642
cm.ExtStorMnt on page 642
cm.ExtStorUnMnt on page 643
cm.ExtStorMntFail on page 643
cm.ExtStorUnMntFail on page 644
cm.CreatLogFileFail on page 644
cm.ExtStorPrimCoreDumpInv on page 645
cm.ExtStorUnmtTmpBusy on page 645

cm.nvramErr

Description

Error while read/writing NVRAM.

Remedy

The NVRAM might be corrupted. Please perform MSM diagnosis or NVRAM diagnosis.

Severity

Error

Message Text

Failed to `%action%` `%objType%` \"`%objName%`\" to NVRAM (error `%error%`)

Message Parameters

Name	Type
action	String
objType	String
objName	String
error	sInt32

cm.database

Description

Informational. Configuration database will be locked/unlocked when there is application failure. Depends on the recovery level of the application, the application might get restarted or the MSM might failed over.

Remedy

If the database stay locked (user cannot issue any CLI commands), a reboot of the MSM might be needed.

Severity

Warning

Message Text

Configuration database `%status%`

Message Parameters

Name	Type
status	String

cm.reqDrop

Description

Failed to forward request because of the specified reason.

Remedy

Configuration request to the application was dropped. The application is most likely not running at the time (either crashed or not started). Either restart the application or reboot the MSM.

Severity

Error

Message Text

Request #`%seqNum%` (`%dst%`) dropped: `%reason%` (`%data%`).

Message Parameters

Name	Type
seqNum	uInt32
dst	String
reason	String
data	String

cm.replyDrop

Description

Reply dropped because of the reason.

Remedy

Configuration reply to the application was dropped. The application is most likely not running at the time (either crashed or not started). Either restart the application or reboot the MSM.

Severity

Error

Message Text

Reply #`%seqNum%` (`%src%`) dropped: `%reason%` (`%data%`).

Message Parameters

Name	Type
seqNum	uInt32
src	String
reason	String
data	String

cm.syncErr

Description

Failed to synchronize configuration file.

Remedy

Configuration file (/config) synchronization is not successful. Perform a explicte "synchronize" command to synchronize the two MSM.

Severity

Error

Message Text

Failed to synchronize `%fileName%`: `%reason%`.

Message Parameters

Name	Type
fileName	String
reason	String

cm.chkpErr

Description

Configuration checkpoint operation failed because of the indicated reason.

Remedy

Configuration checkpoint operation failed, the backup MSM might not operate correctly. Restart the backup MSM.

Severity

Error

Message Text

Failed to checkpoint configuration: `%reason%`.

Message Parameters

Name	Type
reason	String

cm.loadErr

Description

Configuration load failed because of the indicated reason.

Remedy

Configuration load is not successful and the configuration might not restored 100%. User could manually exam which configuration has failed to load and perform the corresponding CLI command to restore them.

Severity

Error

Message Text

Failed to load configuration: `%reason%`.

Message Parameters

Name	Type
reason	String

cm.configSyncErr

Description

Configuration file synchronization failed. The backup MSM might not have the complete configuration files on primary.

Remedy

Please synchronize the two MSMs using "synchronize" command.

Severity

Error

Message Text

Failed to synchronize configuration files, system may not operate correctly.

cm.configNotInSync

Description

Configuration files in the two nodes config partition (/config on Mariner) are different. System will perform auto configuration file synchronization and push the files on primary to backup node.

Remedy

No action needs to be taken. This is to inform the user that the two MSM has different configuration file contents under the config file partition. System will perform the auto config file synchronization when this message is logged.

Severity

Warning

Message Text

Backup node has different configuration files than primary node. Auto configuration file synchronization will be performed.

cm.extCFNoSpace

Description

There is no more space left in external memory card.

Remedy

Upgrade to a larger external memory card or delete some files from the external memory card. Use 'ls /mem' to see the list of files and 'rm /mem/<filename>' to delete a file from the external memory card).

Severity

Warning

Message Text

External memory card is full, please remove unused files to free up storage space immediately.\n

cm.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

cm.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

cm.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

cm.UseCfg

Description

A previous-saved configuration is selected.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Configuration file `%fileName%` is selected.

Message Parameters

Name	Type
fileName	String

cm.CLILog

Description

Logging of CLI configuration commands to the Syslog server is enabled or disabled.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

CLI configuration logging is `%enable%`.

Message Parameters

Name	Type
enable	String

cm.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

cm.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

cm.CmdCnclUser

Description

Command was cancelled as user replied 'No' to the prompt.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

The command \"%command%\" was cancelled by user \"%user%\".

Message Parameters

Name	Type
command	String
user	AccountName

cm.CmdRejctSysRcvryStat

Description

The system enters recovery state when any process crashes and would not process any commands.

Remedy

Retry the command once EPM recovers and restarts the crashed process; process states can be observed with 'show process' command.

Severity

Error

Message Text

The command \"%command%\" was rejected because the system is in recovery state.

Message Parameters

Name	Type
command	String

cm.CmdRejctSysCkptCfg

Description

The system cannot process any commands during the configuration checkpoint procedure.

Remedy

Retry the command once the configuration checkpoint procedure is complete.

Severity

Error

Message Text

The command \"`%command%`\" was rejected because the system is checkpointing the configuration.

Message Parameters

Name	Type
command	String

cm.CmdRejctSysLoadCfg

Description

The system cannot process any commands during the configuration load as part of the boot-up process

Remedy

Retry the command once the configuration load procedure is complete. Clients' state can be verified using the command 'debug cfgmgr show clients'

Severity

Error

Message Text

The command \"%command%\" was rejected because the system is loading the configuration.

Message Parameters

Name	Type
command	String

cm.CmdRejctSysSaveCfg

Description

The system cannot process configuration modifying commands during the configuration save.

Remedy

Retry the command once the configuration save procedure is complete. If the issue persists, contact technical support and provide the outputs of 'show switch', 'show log'.

Severity

Error

Message Text

The command \"%command%\" was rejected because the system is saving the configuration.

Message Parameters

Name	Type
command	String

cm.CmdRejctNonPrim

Description

The command can be executed only on the primary node.

Remedy

telnet/ssh into the primary node to execute this command.

Severity

Error

Message Text

The command \"%command%\" was rejected because it was entered on a non-primary node.

Message Parameters

Name	Type
command	String

cm.CmdRejctFileNameInv

Description

The user input - %name% doesn't meet the required format specifications.

Remedy

Retry the command with proper input format.

Severity

Error

Message Text

The command \"%command%\" was rejected because the file name is invalid with error: %msg%.

Message Parameters

Name	Type
command	String
msg	String
name	String

cm.SaveCfgFailDirFull

Description

The configuration directory partition memory is full and does not have space for a new configuration file.

Remedy

Please delete old configuration, process crash core files and retry the command.

Severity

Error

Message Text

save configuration failed because the directory is full.

cm.SaveCfgRejctNoFileName

Description

Save configuration command with no file name specified was rejected.

Remedy

Please issue the command with a file name to which the configuration needs to be written.

Severity

Error

Message Text

The command 'save configuration' was rejected because no file name was specified.

cm.SaveCfgFailWaitSetCmplt

Description

Configuration save failed due to timeout while waiting for previous commands to complete. Backend modules could still be servicing previous requests.

Remedy

The system is overloaded with user command requests, retry the command after some time. If the issue persists, contact technical support and provide outputs of 'show switch', 'show log', 'debug cfgmgr show clients'.

Severity

Error

Message Text

Save configuration failed waiting for set operations to complete.

cm.SaveCfgFail

Description

Configuration save failed due to timeout while waiting for backend modules response. Backend modules could be still be servicing previous command requests.

Remedy

This is an internal condition related to software. Check abnormal processor utilization of any process using 'show process'. Retry the command after some time. If the issue persists, contact technical support and provide outputs of 'show switch', 'show log', 'debug cfgmgr show clients'.

Severity

Error

Message Text

Save configuration failed due to `%n%` unresponsive application(`%apps%`).

Message Parameters

Name	Type
n	uInt
apps	String

cm.SaveCfgWritFailErr

Description

Configuration file write error occurred.

Remedy

Failed to write configuration. The configuration directory(/usr/local/cfg) is most likely full, remove some configuration/policy files from the partition and re-save the configuration.

Severity

Error

Message Text

Save configuration failed to write to the file with an error (`%errStr%`).

Message Parameters

Name	Type
errStr	String

cm.SaveCfgDone

Description

Configuration save to file was successful.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Save configuration by \"`%user%`\" was successfully completed.

Message Parameters

Name	Type
user	AccountName

cm.SaveCfgCkptBkupFail

Description

Checkpointing of configuration to the backup system failed. Two probable causes: - Checkpoint stopped due to node failover - Time out due to non-responsive applications.

Remedy

- Check the status of the slots in the stack with 'show slots'. - 'show process' could identify any non-responsive applications. Try restarting the application. Use 'synchronize' command to synchronize the master and the backup node. If the problem persists, contact technical support with outputs of 'show tech-support' and 'debug cfgmgr show clients'.

Severity

Error

Message Text

```
%err%
```

Message Parameters

Name	Type
err	String

cm.SaveCfgFailAsyncErr

Description

Configuration save failed as the command could not be added to asynchronous queue.

Remedy

Problem internal to the configuration manager and requires switch restart. If the issue persists, contact technical support with output of 'show tech-support'.

Severity

Error

Message Text

Save configuration failed due to an asynchronous queueing error.

cm.SaveCfgAuto

Description

Periodic save of configuration has been enabled or disabled

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Save configuration automatically has been `%state%` by user \"`%user%`\".

Message Parameters

Name	Type
state	String
user	AccountName

cm.SaveCfgRejctArgInv

Description

Command to save configuration with invalid arguments was rejected.

Remedy

Re-issue the command with proper arguments.

Severity

Error

Message Text

Save configuration was rejected because the arguments were invalid.

cm.SaveCfgCkptStbyFail

Description

Error during checkpointing configuration files from master to standby nodes. Two probable timeout causes: - Master slot could not complete compressing configuration directory - Unresponsive standby slots

Remedy

Check for abnormal process utilization on slots using 'show process'. Check slot status using 'show slots' Use 'synchronize' to synchronize the slot with the master node.

Severity

Error

Message Text

```
%err%
```

Message Parameters

Name	Type
err	String

cm.SaveCfgCkptStbyOK

Description

Copying of configuration files to standby during the configuration save was successful.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Configuration files checkpoint to standby was successful.

cm.SaveCfgCkptBkupOK

Description

Checkpointing configuration to backup during configuration save was successful

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Configuration checkpoint to backup was successful.

cm.SetGlobCfgDirtyFlag

Description

Global configuration cache held by Configuration Manager was marked dirty on request by the %client% client.

Remedy

A user issued 'save configuration' command or the periodic auto-save feature, if enabled, will reset the global configuration dirty flag.

Severity

Info

Message Text

Global configuration was marked dirty by `%client%` client.

Message Parameters

Name	Type
client	String

cm.ExtStorIns

Description

An additional external memory storage was inserted to the switch and will be used in case the other external memory storage is removed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

External memory storage was inserted into the USB port of the switch

cm.ExtStorRem

Description

Additional external memory storage was removed from the switch.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

External memory storage was removed from the USB port of the switch

cm.ExtStorUnMntCoreDumpInv

Description

Any core dump generation will fail as the core dump target, external memory storage, was removed.

Remedy

Re-insert the external memory storage or configure the core dump to internal-memory.

Severity

Error

Message Text

External memory storage was removed with core dump destination configured to the it.

cm.AddLogFileDsptchFail

Description

This event will result in loss of logging some of the events.

Remedy

To ensure logging of all events, please reboot the switch.

Severity

Warning

Message Text

Adding log file \"`%file%`\" to dispatcher failed.

Message Parameters

Name	Type
file	String

cm.ExtStorMnt

Description

External memory storage can now be accessed at /usr/local/ext.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

External memory storage was mounted on to the switch

cm.ExtStorUnMnt

Description

External memory storage was unmounted and will no longer be accessible.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

External memory storage was unmounted from the switch

cm.ExtStorMntFail

Description

External memory storage mounting failed and will not be accessible.

Remedy

Reinsert the memory card on switch.

Severity

Warning

Message Text

External memory storage mounting failed

cm.ExtStorUnMntFail

Description

Probable cause for failure of unmounting could be an active access of the external memory storage from another session.

Remedy

Retry the 'eject memorycard' command.

Severity

Warning

Message Text

External memory storage unmounting failed

cm.CreatLogFileFail

Description

This event could result in loss of logging some of the events.

Remedy

To ensure logging of all events, please reboot the switch.

Severity

Warning

Message Text

Failed to create log file \"`%name%`\": `%error%`

Message Parameters

Name	Type
name	String
error	String

cm.ExtStorPrimCoreDumpInv

Description

Any core dump generation will fail as the core dump target, external memory storage, does not exist.

Remedy

Insert an external memory storage or configure the core dump to internal-memory.

Severity

Error

Message Text

Non-existence of external memory storage on new master will result in core dump loss

cm.ExtStorUnmtTmpBusy

Description

External memory storage is briefly in use by EXOS and cannot be ejected at this moment.

Remedy

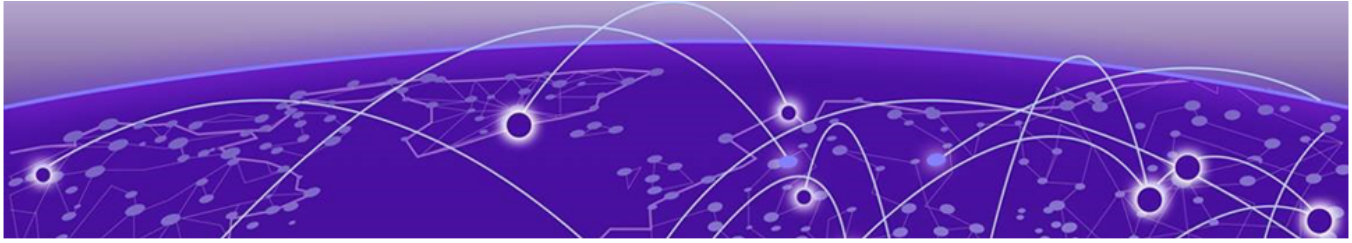
Repeat the eject attempt again in a few minutes.

Severity

Info

Message Text

External memory storage busy, try again later



cm.file Messages

cm.file.lineTooBig on page 646
cm.file.readErr on page 647
cm.file.writeErr on page 647
cm.file.invalidFmt on page 648
cm.file.openErr on page 648
cm.file.platformErr on page 649
cm.file.configCorrupt on page 650
cm.file.fileNameErr on page 650

cm.file.lineTooBig

Description

Cannot handle a single line of configuration that exceeds the specified bytes.

Remedy

Delete this configuration from the configuration file.

Severity

Error

Message Text

Configuration data is too big (exceeds `%bytes%` bytes)

Message Parameters

Name	Type
bytes	uInt32

cm.file.readErr

Description

File read error occured.

Remedy

Configuration file is not read successfully (either corrupted or does not exist). Do a ls command and see whether it exists. If exist, then the file might be corrupted or not supported. The configuration is not restored and factory default configuration is used to boot the MSM. Save configuration to the given file again to make sure it can be loaded successfully next time.

Severity

Error

Message Text

Failed to read from \"`%name%`\" (error = `%error%`)

Message Parameters

Name	Type
name	String
error	uInt32

cm.file.writeErr

Description

File write error occured.

Remedy

Failed to write configuration. The /config partition is most likely full, remove some configuration/policy files from the partition and re-save the configuration.

Severity

Error

Message Text

Failed to write to file \"%name%\": %error%

Message Parameters

Name	Type
name	String
error	String

cm.file.invalidFmt

Description

Invalid configuration file format detected in the specified configuration file.

Remedy

The configuration file is corrupted, re-save the configuration file.

Severity

Error

Message Text

Invalid configuration file \"%name%\" (v%version%) format detected at line %line%

Message Parameters

Name	Type
name	String
version	uInt32
line	uInt32

cm.file.openErr

Description

File open failed because of the specified reason.

Remedy

Make sure the file exists in /config (ls). If not, then fetch in the configuration file or save a configuration with the file name. The MSM will be booted with factory default configuration in this case.

Severity

Critical

Message Text

Failed to open file \"`%name%`\": `%error%`

Message Parameters

Name	Type
name	String
error	String

cm.file.platformErr

Description

The configuration file that's being loaded is not generated from the hardware platform.

Remedy

The configuration file used is generated from another platform. Would be safest to unconfigure switch all, remove the configuration file, and then either apply a different configuration file or just reboot the MSM with default configuration.

Severity

Warning

Message Text

Applying configuration file generated from \"`%savedPlatform%`\" on \"`%currentPlatform%`\"

Message Parameters

Name	Type
savedPlatform	String
currentPlatform	String

cm.file.configCorrupt

Description

This event occurrs if we detect a corrupt configuration delivered from the JFFS2 filesystem. This manifests as a block of 1024 bytes of 'zeros' at the beginning of the file resulting in no processing of the configuration (they system will come up with a default configuration)

Remedy

Bootrom recovery to completely repartition/reinstall the system or RMA.

Severity

Critical

Message Text

Failed to process configuration file \"`%name%`\" due to filesystem corruption

Message Parameters

Name	Type
name	String

cm.file.fileNameErr

Description

This event occurrs if we are unable to read the configuration file name.

Remedy

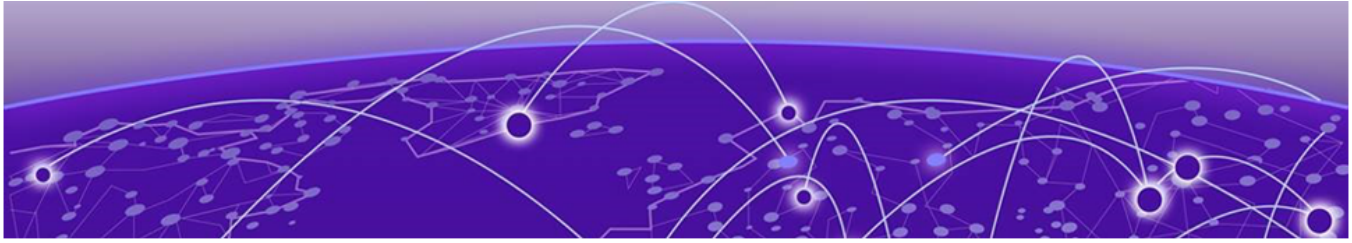
Configuration file is not read successfully (either corrupted or does not exist). Do a ls command and see whether it exists. If exist, then the file might be corrupted. The configuration is not restored and factory default configuration is used to boot the MSM.

Severity

Critical

Message Text

Failed to read configuration file name



cm.sys Messages

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cm.sys.state on page 653
cm.sys.msgErr on page 653
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cm.sys.asyncExec on page 655
cm.sys.LoadApplCfgObjFail on page 656
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cm.sys.ApplCfgObjUnsuprt on page 657
cm.sys.ApplCfgObjOptUnsuprt on page 658

cm.sys.oom

Description

System is running out of memory.

Remedy

Shut down some applications that consume large amount of memory or reboot the MSM.

Severity

Critical

Message Text

Failed to allocate `%bytes%` bytes memory

Message Parameters

Name	Type
bytes	uInt32

cm.sys.state

Description

CM state change, first is the MSM node state, then the internal CM state, last is the redundancy event input.

Remedy

Internal debug log, please ignore.

Severity

Debug-Summary

Message Text

CM State [`%nodeState%`] [`%state%`] [`%event%`]

Message Parameters

Name	Type
nodeState	String
state	String
event	String

cm.sys.msgErr

Description

Error decoding/encoding/sending the specified message from/to the remote peer.

Remedy

Communication between application peer failed due to error when decoding/encoding/sending the message. If it persists, an application restart or switch reboot maybe required to correct the problem and contact technical support, providing outputs of 'show switch', 'show log'.

Severity

Error

Message Text

Error %action% %msg%: Length %length% Peer %peer% (%name%)

Message Parameters

Name	Type
action	String
msg	String
length	sInt32
peer	uInt32
name	String

cm.sys.msgDrop

Description

Dropped an unknown or unexpected message.

Remedy

No action required - this is an information log message.

Severity

Info

Message Text

Dropped %msg%: Length %length% Peer %peer% (%name%)

Message Parameters

Name	Type
msg	String
length	sInt32
peer	uInt32
name	String

cm.sys.msgOkay

Description

Successfully sent/processed message to/from peer.

Remedy

Internal debug log, please ignore.

Severity

Debug-Data

Message Text

`%action% %msg%`: Length `%length%` Peer `%peer%` (`%name%`)

Message Parameters

Name	Type
action	String
msg	String
length	uInt32
peer	uInt32
name	String

cm.sys.asyncExec

Description

The object execution is asynchronous.

Remedy

This is debug log message, no remedy needs to be taken.

Severity

Debug-Data

Message Text

Asynchronous execution for object \"`%object%`\".

Message Parameters

Name	Type
object	String

cm.sys.LoadApplCfgObjFail

Description

Error while loading the application's configuration object.

Remedy

Manually issue the command to apply the configuration.

Severity

Error

Message Text

\"`%appl%`\" application failed to load \"`%obj%`\" configuration object: `%msg%`

Message Parameters

Name	Type
appl	String
obj	String
msg	String

cm.sys.SaveApplCfgObjFail

Description

Error while saving the application's configuration object.

Remedy

The configuration is not saved completely. Please retry the configuration save with 'save configuration' command.

Severity

Error

Message Text

\"%appl%\" application failed to save \"%obj%\" configuration object: %msg%

Message Parameters

Name	Type
appl	String
obj	String
msg	String

cm.sys.ApplCfgObjUnsuprt

Description

Applications will fail to load configuration objects of unsupported features when a configuration file generated with a different EXOS version is used to configure the switch. This may occur during an EXOS upgrade or downgrade. Saving configuration in the current version of EXOS will create a new configuration file without the configuration objects related to unsupported features. Please be sure to have a backup of the old configuration file to be able to revert to the previous version of EXOS, when required.

Remedy

Saving configuration with the 'save configuration' command and rebooting with the new configuration file as the selected configuration file will no longer result in this event.

Severity

Warning

Message Text

The \"%appl%\" application \"%obj%\" configuration object is not supported.

Message Parameters

Name	Type
appl	String
obj	String

cm.sys.ApplCfgObjOptUnsuprt

Description

Applications will load configuration objects without the unsupported option when a configuration file generated with a different EXOS version is used to configure the switch. This may occur during an EXOS upgrade or downgrade. Saving configuration in the current version of EXOS will create a new configuration file without the unsupported options of the configuration objects. Please be sure to have a backup of the old configuration file to be able to revert to the previous version of EXOS, when required.

Remedy

Saving configuration with the 'save configuration' command and rebooting with the new configuration file as the selected configuration file will no longer result in this event.

Severity

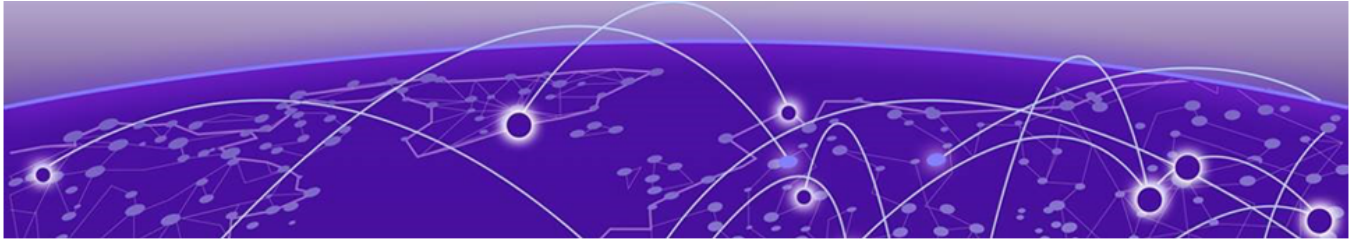
Notice

Message Text

The \"`%appl%`\" application \"`%obj%`\" configuration object \"`%member%`\" option is not supported.

Message Parameters

Name	Type
appl	String
obj	String
member	String



cm.VSM Messages

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cm.VSM.ReqDropAllocFail on page 663
cm.VSM.NtfyMLAGStateChg on page 663
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cm.VSM.DebugVerbose on page 665
cm.VSM.DebugSummary on page 665
cm.VSM.DebugData on page 666
cm.VSM.IgnCkptMsg on page 666
cm.VSM.CkptMsgNull on page 667
cm.VSM.AllocCkptMsgFail on page 668
cm.VSM.AppDataNotFnd on page 668
cm.VSM.AppDataFnd on page 669
cm.VSM.TxCkptMsg on page 669
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cm.VSM.NoPeerUp on page 672
cm.VSM.ReplyDropClntErr on page 673

cm.VSM.InitClntFail

Description

Initialization of CM with VSM module has failed. In such a case, CM's MLAG mode functionality will not function. ErrCode : Meaning 2 : Invalid invoke of function with an empty parameter 3 : Memory allocation failed 10 : IPML Initialization Error

Remedy

This is a rare condition which may be related to software. Check abnormal memory utilization of any process using 'show memory' and scale down configuration related to it. If it persists, a reboot may be required to correct the problem and contact technical support, providing outputs of 'show switch', 'show log', and 'debug ems show trace vsm ipml'.

Severity

Error

Message Text

Configuration manager initialization with VSM module failed, VSM returned value of `%err%`

Message Parameters

Name	Type
err	sInt

cm.VSM.CreatISC

Description

This is a debug message indicating that an ISC is being created.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

Create ISC for index `%isc%`

Message Parameters

Name	Type
isc	uInt16

cm.VSM.DelISC

Description

This is a debug message indicating that an ISC is being deleted.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

Deleting ISC for index `%isc%`

Message Parameters

Name	Type
isc	uInt16

cm.VSM.AllocBufFail

Description

Allocation of checkpoint buffer has failed. In such a case, CM's MLAG mode functionality will not function properly.

Remedy

This is an internal condition related to software. Check abnormal memory utilization of any process using 'show memory'. You may need to scale down the configuration related to it.

Severity

Error

Message Text

Unable to allocate IPML buffer used to checkpoint messages.

cm.VSM.AllocAppDataFail

Description

Allocation of application specific data buffer has failed for the specified ISC (Inter Switch Connection connecting to an MLAG peer). In such a case, CM's MLAG mode functionality will not function properly.

Remedy

This is an internal condition related to software. Check abnormal memory utilization of any process using 'show memory'. You may need to scale down the configuration related to it.

Severity

Error

Message Text

Unable to allocate ISC-specific global information for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

cm.VSM.PktLenExcdMax

Description

Error processing the specified message from the remote peer as it exceeds the maximum allowed packet size. Message type: %msgType% Message length: %len% Message from peer ID: %peer%

Remedy

This is a rare condition which may be related to software, contact technical support and provide outputs of 'show switch', 'show log', and 'debug ems show trace vsm ipml'

Severity

Error

Message Text

Packet length exceeds maximum with length of `%len%`, received from peer(ID `%peer%`) with message type of `%msgType%`

Message Parameters

Name	Type
msgType	String
len	sInt32
peer	uInt16

cm.VSM.ReqDropAllocFail

Description

Failed to forward the checkpoint request from peer due to memory allocation failure.

Remedy

This is an internal condition related to software. Check abnormal memory utilization of any process using 'show memory'. You may need to scale down the configuration related to it. If it persists, a reboot may be required to correct the problem and contact technical support, providing outputs of 'show switch', 'show log'.

Severity

Error

Message Text

Request dropped due to memory allocation failure(Message Type: `%msgType%`)

Message Parameters

Name	Type
msgType	String

cm.VSM.NtfyMLAGStateChg

Description

This is a debug message indicating that parameters relating to an MLAG have changed.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

MLAG state change notification for index `%mlag%`, ISC `%isc%`, remote port state `%state%`

Message Parameters

Name	Type
mlag	uInt16
isc	uInt16
state	sInt

cm.VSM.DropReplySeqNumMismatch

Description

Configuration reply to the application was dropped. Reason provided : Meaning "sequence number mismatch" : Local client is processing a request with different sequence number 1. If Current # > Received # sequence number, then probable cause would be connection issue. 2. If Received # > Current # sequence number, then internal condition related to software. "no outstanding request" : Local client does not have any request pending.

Remedy

This is a rare condition which may be related to software, and may require a reboot to correct the problem. If it persists, contact technical support and provide outputs of 'show switch', 'show log'.

Severity

Error

Message Text

Dropped (`%msgType%`) reply to request number `%seqNum%` handled by client `%client%` due to `%reason%`.

Message Parameters

Name	Type
seqNum	uInt32
client	String
reason	String
msgType	String

cm.VSM.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

cm.VSM.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

cm.VSM.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

cm.VSM.IgnCkptMsg

Description

This is a debug message which indicates that a checkpoint message of unknown type is not being processed.

Remedy

No action required -- Information message only.

Severity

Debug-Verbose

Message Text

Ignore Checkpoint msg, invalid type `%type%` on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
type	uInt16

cm.VSM.CkptMsgNull

Description

Checkpoint message could not be processed as the message pointer is null.

Remedy

This is a rare condition which may be related to software, and may require a reboot of the switch to correct the problem. If it persists, contact technical support and provide outputs of 'show switch', 'show log'.

Severity

Error

Message Text

The checkpoint message pointer is from ISC `%isc%`, and is NULL

Message Parameters

Name	Type
isc	uInt16

cm.VSM.AllocCkptMsgFail

Description

This message indicates that an attempt to allocate a buffer to hold the checkpoint message has failed.

Remedy

This is an internal condition related to software. Check abnormal memory utilization of any process using 'show memory'. You may need to scale down the configuration related to it.

Severity

Error

Message Text

Failed to allocate checkpoint message buffer for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

cm.VSM.AppDataNotFnd

Description

This message indicates that the client ISC application has not been found. In such a case, CM's MLAG mode functionality will not function properly.

Remedy

This is a rare condition which may be related to software, and may require a reboot of the switch to correct the problem. If it persists, contact technical support and provide outputs of 'show switch', 'show log'.

Severity

Error

Message Text

Client ISC application data not found `%isc%`

Message Parameters

Name	Type
isc	uInt16

cm.VSM.AppDataFnd

Description

A possible memory leak, as Client ISC application data found before initializing for ISC index %isc%

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Client ISC application data present when initiatlizing `%isc%`

Message Parameters

Name	Type
isc	uInt16

cm.VSM.TxCkptMsg

Description

This is a debug message which indicates a checkpoint message has been transmitted to an MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx checkpoint message `%len%` bytes on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16

cm.VSM.RxCkptMsg

Description

This is a debug message which indicates a checkpoint message has been received from an MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Rx checkpoint message `%len%` bytes on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16

cm.VSM.SetAppDataFail

Description

Setting application-specific data for the ISC had failed. In such a case, CM's MLAG mode functionality will not function properly.

Remedy

This is a rare condition which may be related to software, and may require a reboot of the switch to correct the problem. If it persists, contact technical support and provide outputs of 'show switch', 'show log'.

Severity

Error

Message Text

Unable to set application-specific data for ISC `%isc%`, Error = `%err%`

Message Parameters

Name	Type
isc	uInt16
err	sInt

cm.VSM.CkptSendFail

Description

Sending checkpoint messages to VSM clients has failed. In such a case, CM's MLAG mode functionality will not function properly.

Remedy

This is a rare condition which may be related to software, and may require a reboot of the switch to correct the problem. If it persists, contact technical support and provide outputs of 'show switch', 'show log'.

Severity

Error

Message Text

Failed to send checkpoint messages to VSM clients. ISC ID map `%peerIscIdxMap%`, Return Code = `%rc%`, Length = `%len%`

Message Parameters

Name	Type
peerIscIdxMap	uInt16
rc	sInt32
len	uInt32

cm.VSM.CkptMsgLenZero

Description

Checkpoint message could not be processed as message length is zero.

Remedy

This is a rare condition which may be related to software, and may require a reboot of the peer switch to correct the problem. If it persists, contact technical support and provide outputs of 'show switch', 'show log'.

Severity

Error

Message Text

Checkpoint message length from ISC peer ID `%isc%` is Zero.

Message Parameters

Name	Type
isc	uInt16

cm.VSM.NoPeerUp

Description

Sending checkpoint messages to VSM clients over ISC connections has failed as no VSM clients are active. In such a case, CM's MLAG mode functionality will not function properly.

Remedy

Check the state of ISC connections

Severity

Error

Message Text

Failed to send checkpoint message of `%msgType%` type with length `%len%` to VSM clients, as no client is active

Message Parameters

Name	Type
msgType	String
len	sInt32

cm.VSM.ReplyDropClntErr

Description

Configuration reply to the application was dropped, as %client% application is not running at the time. %seqNum% is a sequence number that is assigned to every request that the configuration manager receives. %msgType% is the message to the request with sequence number - %seqNum% that was associated with the %client% application.

Remedy

The application is most likely not running at the time (either crashed or not started). Either restart the application or reboot the switch.

Severity

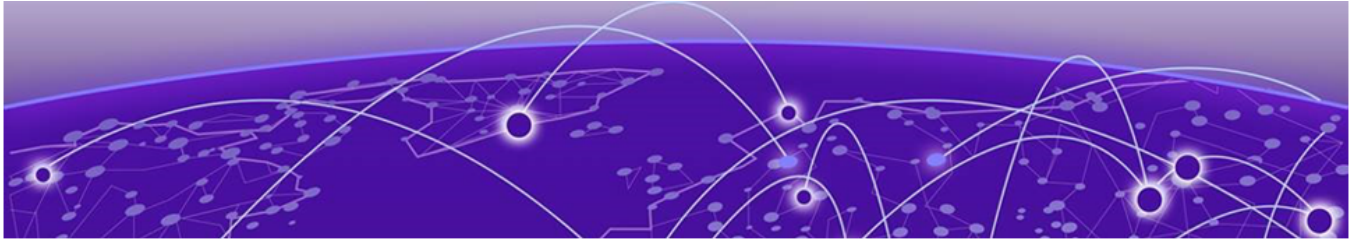
Error

Message Text

Response(`%msgType%`) to request number(#`%seqNum%`) handled by client (`%client%`) dropped, as `%client%` not running

Message Parameters

Name	Type
seqNum	uInt32
client	String
msgType	String



Comp.Subcomp Messages

Comp.Subcomp.DebugSummary on page 675
Comp.Subcomp.DebugVerbose on page 676
Comp.Subcomp.DebugData on page 676
Comp.Subcomp.ColorSet on page 677

Comp.Subcomp.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

Comp.Subcomp.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Comp.Subcomp.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Comp.Subcomp.ColorSet

Description

The application's color has been set.

Remedy

No action required.

Severity

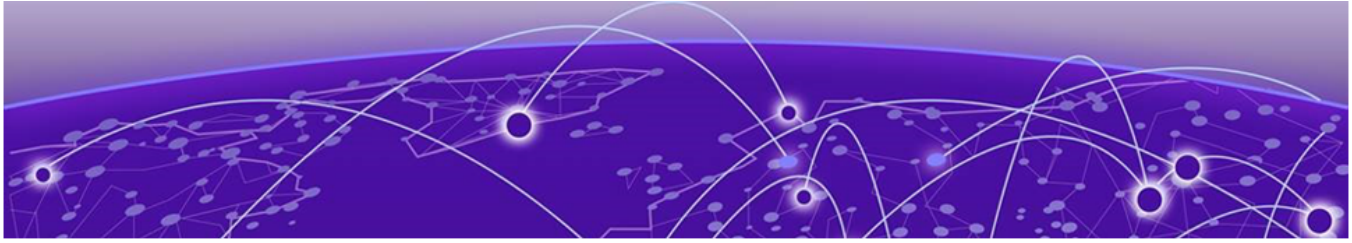
Notice

Message Text

New color selected: `%Color%`.

Message Parameters

Name	Type
Color	String



DHCPV6.Client Messages

DHCPV6.Client.DebugSummary on page 678
DHCPV6.Client.DebugVerbose on page 679
DHCPV6.Client.DebugData on page 679
DHCPV6.Client.AllocMemFail on page 680
DHCPV6.Client.DfltOptLkupFail on page 680
DHCPV6.Client.ClntIdOptMiss on page 681
DHCPV6.Client.ElapsedTimeOptMiss on page 682
DHCPV6.Client.IdAssocNonTmpOptMiss on page 682
DHCPV6.Client.IdAssocAddrOptMiss on page 683
DHCPV6.Client.OptReqOptMiss on page 683
DHCPV6.Client.InvSrvrId on page 684
DHCPV6.Client.InvClntId on page 684
DHCPV6.Client.LocClntIdMiss on page 685
DHCPV6.Client.ClntIdMismatch on page 685
DHCPV6.Client.RecvInvIPv6Addr on page 686
DHCPV6.Client.DHCPv6SndPktFail on page 687
DHCPV6.Client.RecvInvDHCPv6PfxOpt on page 687
DHCPV6.Client.ActvLeaseNotExist on page 688

DHCPV6.Client.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DHCPV6.Client.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DHCPV6.Client.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DHCPV6.Client.AllocMemFail

Description

This event occurs when memory allocation failure happens for DHCPv6 client.

Remedy

This is a rare internal condition needing technical assistance. Restart the DHCPv6 client process using the CLI command "restart process nettools". If the event still occurs, contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Error

Message Text

Failed allocating memory for DHCPv6 Client.

DHCPV6.Client.DfltOptLkupFail

Description

This event occurs when the DHCPv6 client default option lookup is failed during default parameter request assembly.

Remedy

This is a rare internal condition needing technical assistance. Restart the DHCPv6 client process using the CLI command "restart process nettools". If the event still

occurs, contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Error

Message Text

Default Option Lookup failed for option code `%code%` during default parameter request assembly for DHCPv6 Client.

Message Parameters

Name	Type
code	uInt

DHCPV6.Client.ClntIdOptMiss

Description

This message will be logged when CLIENTID option lookup failed and the definition is missing.

Remedy

Make sure CLIENTID is configured correctly otherwise configure it using the CLI command "configure dhcp ipv6 client identifier-type [link-layer | link-layer-plus-time | vendor-specific]"

Severity

Warning

Message Text

Lookup for CLIENTID option with option code `%code%` failed and definition is missing for DHCPv6 client.

Message Parameters

Name	Type
code	uInt

DHCPV6.Client.ElapsedTimeOptMiss

Description

This event occurs when Elapsed time option lookup is failed and the definition is missing.

Remedy

Make sure Elapsed time option is configured correctly at the server end.

Severity

Warning

Message Text

Lookup for Elapsed time option with option code `%code%` failed and definition is missing for DHCPv6 Client.

Message Parameters

Name	Type
code	uInt

DHCPV6.Client.IdAssocNonTmpOptMiss

Description

This event occurs when Identity Association Non-temporary option is missing for DHCPv6 Client.

Remedy

Make sure Identity Association Non-temporary option is configured correctly at the server end.

Severity

Warning

Message Text

Identity Association Non-temporary option with option code `%code%` is missing for DHCPv6 Client.

Message Parameters

Name	Type
code	uInt

DHCPV6.Client.IdAssocAddrOptMiss

Description

This event occurs when Identity Association Address option is missing for DHCPv6 Client.

Remedy

Make sure Identity Association Address option is configured correctly at the server end.

Severity

Warning

Message Text

Identity Association Address option with cption code `%code%` is missing for DHCPv6 Client.

Message Parameters

Name	Type
code	uInt

DHCPV6.Client.OptReqOptMiss

Description

This event occurs when Option Request Option is missing.

Remedy

Make sure Option Request Option is configured correctly at the server end.

Severity

Warning

Message Text

Option Request Option with cption code %code% is missing for DHCPv6 Client.

Message Parameters

Name	Type
code	uInt

DHCPV6.Client.InvSrvrId

Description

This event occurs when a DHCPv6 Response without a server identifier is received.

Remedy

Make sure SERVER Identifier is configured correctly at the server end.

Severity

Error

Message Text

DHCPv6 Response without a server identifier cption code %code% is received by DHCPv6 Client.

Message Parameters

Name	Type
code	uInt

DHCPV6.Client.InvClntId

Description

This event occurs when DHCPv6 response without a client identifier is received.

Remedy

Make sure CLIENT Identifier is configured correctly at the client end otherwise configure it using the CLI command "configure dhcp ipv6 client identifier-type [link-layer {plus-time} | vendor-specific]"

Severity

Error

Message Text

DHCPv6 Response without a client identifier option with option code `%code%` is received by DHCPv6 Client.

Message Parameters

Name	Type
code	uInt

DHCPV6.Client.LocClntIdMiss

Description

This event occurs when Local Client Identifier is missing for DHCPv6 Client.

Remedy

Configure a valid Local Client Identifier for the DHCPv6 Client using the CLI command "configure dhcp ipv6 client identifier-type [link-layer | link-layer-plus-time | vendor-specific]"

Severity

Error

Message Text

Local Client Identifier option with option code `%code%` is missing for DHCPv6 Client.

Message Parameters

Name	Type
code	uInt

DHCPV6.Client.ClntIdMismatch

Description

This event occurs when there is mismatch between Local Client Identifier and incoming DHCPv6 packet Client Identifier from server.

Remedy

Configure a valid Local Client Identifier for DHCPv6 Client that matches the incoming DHCPv6 packet client identifier using the CLI command "configure dhcp ipv6 client identifier-type [link-layer | link-layer-plus-time | vendor-specific]"

Severity

Error

Message Text

Mismatch between Local Client Identifier `%clientId%` and incoming DHCPv6 packet Client Identifier from Server `%serverId%`.

Message Parameters

Name	Type
serverId	String
clientId	String

DHCPV6.Client.RecvInvIPv6Addr

Description

This event occurs when the DHCPv6 client receives a invalid IPv6 address from DHCPv6 server.

Remedy

Check your DHCP server to make sure the IP address supplied is not used by any other network device. Check the switch's ARP table to find the current user of the IP address.

Severity

Error

Message Text

Received Invalid IPv6 Address `%ipv6Address%` of length `%bytes%` bytes from DHCPv6 server.

Message Parameters

Name	Type
ipv6Address	String
bytes	uInt32

DHCPV6.Client.DHCPv6SndPktFail

Description

This event occurs when the DHCPv6 Client could not send DHCPv6 packets of correct size.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information : Check whether "show dhcp-client state ipv6" CLI output shows State field as "Stopped State". Also check "show vlan <vlanName>" CLI output to see whether link-local address of the vlan had been unconfigured.

Severity

Error

Message Text

DHCPv6 Client Failed to send DHCPv6 packets of size `%size%` bytes.

Message Parameters

Name	Type
size	uInt

DHCPV6.Client.RecvInvDHCPv6PfxOpt

Description

This event occurs when DHCPv6 Client receives an Invalid DHCPv6 preference option of length greater than 1 byte.

Remedy

Make sure DHCPv6 server sends a DHCPv6 packet with correct preference value option.

Severity

Error

Message Text

Invalid DHCPv6 preference option of length `%bytes%` bytes received by DHCPv6 Client.

Message Parameters

Name	Type
bytes	uInt32

DHCPV6.Client.ActvLeaseNotExist

Description

This event occurs when a DHCPv6 Client is unable to enter Bound state as there is no existing Active Lease Period.

Remedy

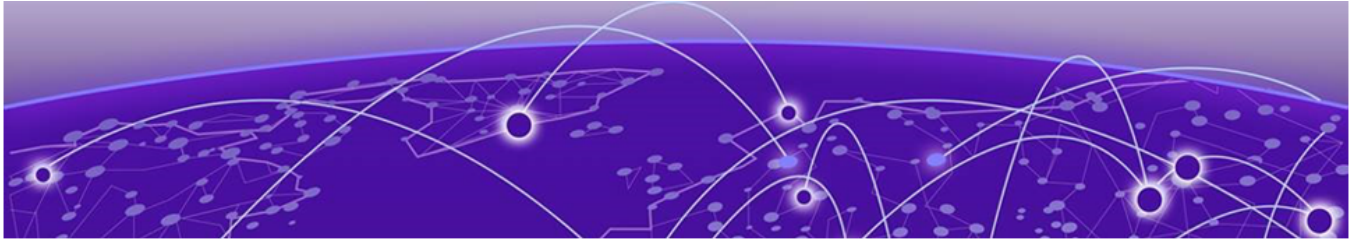
When Active Lease expires , the Client should restart the DHCP process to obtain a new valid IP address.

Severity

Error

Message Text

DHCPv6 Client Unable to enter bound state as Active Lease doesn't exist.



DHCPV6.Relay Messages

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DHCPV6.Relay.RenewDlgtPfx on page 690
DHCPV6.Relay.DelDlgtPfx on page 690
DHCPV6.Relay.AddRtDlgtPfx on page 691
DHCPV6.Relay.AddRtDlgtPfxFail on page 692
DHCPV6.Relay.DelRtDlgtPfx on page 692
DHCPV6.Relay.RtLkupDlgtPfxGwFail on page 693

DHCPV6.Relay.AddDlgtPfx

Description

This event occurs whenever DHCPv6 Relay module detects that a IPv6 Prefix is being delegated.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

IPv6 Prefix `%prefix%` is being delegated via vlan `%vlanName%` gateway `%gateway%` for `%validTime%` seconds.

Message Parameters

Name	Type
prefix	String
gateway	IPv6

Name	Type
vlanName	String
validTime	uInt32

DHCPV6.Relay.RenewDlgtPfx

Description

This event occurs whenever DHCPv6 Relay module detects that a IPv6 Prefix is being renewed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

IPv6 Prefix `%prefix%` is being renewed via vlan `%vlanName%` gateway `%gateway%` for `%validTime%` seconds.

Message Parameters

Name	Type
prefix	String
gateway	IPv6
vlanName	String
validTime	uInt32

DHCPV6.Relay.DelDlgtPfx

Description

This event occurs whenever DHCPv6 Relay module deletes a snooped IPv6 Delegated Prefix.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Snooped IPv6 Prefix `%prefix%` is deleted on vlan `%vlanName%` gateway `%gateway%`.

Message Parameters

Name	Type
prefix	String
gateway	IPv6
vlanName	String

DHCPV6.Relay.AddRtDlgtPfx

Description

This event occurs whenever DHCPv6 Relay module snoops an IPv6 Delegated Prefix and installs a route successfully to reach the IPv6 Prefix.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Route added successfully for IPv6 Prefix `%prefix%` with gateway `%gateway%` on vlan `%vlanName%`

Message Parameters

Name	Type
prefix	String
gateway	IPv6
vlanName	String

DHCPV6.Relay.AddRtDlgtPfxFail

Description

This event occurs whenever DHCPv6 Relay module snoops an IPv6 Delegated Prefix but fails to install a route to reach the IPv6 Prefix.

Remedy

Check the VLAN's configuration.

Severity

Error

Message Text

Failed to add route for IPv6 Prefix `%prefix%` with gateway `%gateway%` on vlan `%vlanName%`

Message Parameters

Name	Type
prefix	String
gateway	IPv6
vlanName	String

DHCPV6.Relay.DelRtDlgtPfx

Description

This event occurs whenever DHCPv6 Relay module deleted an IPv6 Delegated Prefix and also deletes the corresponding route for the IPv6 Prefix.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Route deleted for IPv6 Prefix `%prefix%` with gateway `%gateway%` on vlan `%vlanName%`

Message Parameters

Name	Type
prefix	String
gateway	IPv6
vlanName	String

DHCPV6.Relay.RtLkupDlgtPfxGwFail

Description

This event occurs whenever DHCPv6 Relay module snoops an IPv6 Delegated Prefix but a route lookup for the gateway fails.

Remedy

Check the reachability and route configuration to reach the gateway.

Severity

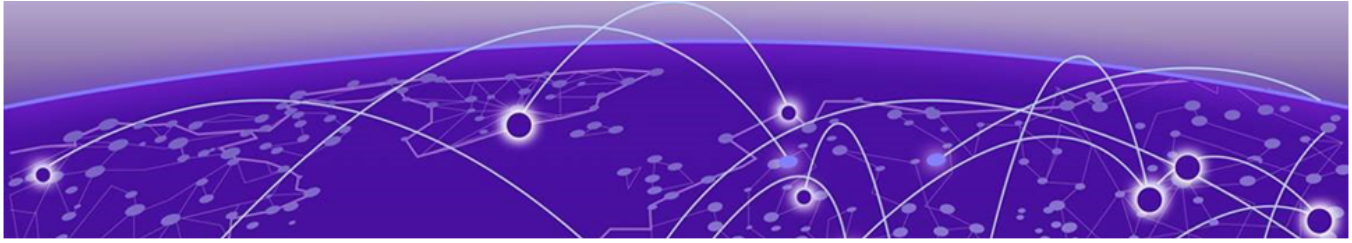
Error

Message Text

Route lookup failed for gateway `%gateway%` for IPv6 Prefix `%prefix%` on vlan `%vlanName%`

Message Parameters

Name	Type
prefix	String
gateway	IPv6
vlanName	String



DM Messages

DM.Critical on page 694
DM.Error on page 695
DM.Warning on page 695
DM.Notice on page 696
DM.Info on page 697
DM.DebugSummary on page 697
DM.DebugVerbose on page 698
DM.DebugData on page 698
DM.DsblSlotShutDown on page 699
DM.DtectRebootLoop on page 700
DM.InitIPMLSrvrFail on page 700
DM.InitIPMLClntFail on page 701
DM.AllocMemFail on page 702
DM.InPwrUsageChg on page 703
DM.InPwrUsageStrt on page 703
DM.SensorAlarmDtect on page 704

DM.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

DM.DsblSlotShutDown

Description

The system recovery mode for the slot is configured to shutdown and it has finished initilizing after rebooting. It will be held in this state for trouble-shooting purposes until the system recovery level has been cleared.

Remedy

The system recovery level has been configured to shutdown this and possibly other slots when an error is detected or otherwise it or another card fails. Information regarding the failure triggering this situation should be collected from "show tech", "show log", "show slot detail", and other pertinent information displays. Once the appropriate information has been gathered, the slot(s) can be enabled to continue to operational state again by issuing the "clear sys-recovery-level" command.

Severity

Warning

Message Text

Disabling `%SlotName%` which is marked for shutdown. To re-enable it, use 'clear sys-recovery-level'.

Message Parameters

Name	Type
SlotName	String

DM.DtectRebootLoop

Description

Reboot loop protection has been enabled with the "debug devmgr configure reboot-loop-protection" command, and a reboot loop has been correspondingly detected and prevented. This feature can only be enabled by the specified command if debug-mode is enabled, and should only be enabled by technical support personnel for the sake of troubleshooting the problem causing the situation to occur.

Remedy

Because this event will only occur under the supervision of technical support personnel having enabled reboot loop protection, it is expected that appropriate information will be collected to determine why the slot might have entered a state of continuously rebooting.

Severity

Warning

Message Text

Preventing `%SlotName%` from continuously rebooting by the reboot loop protection feature.

Message Parameters

Name	Type
SlotName	String

DM.InitIPMLSrvrFail

Description

The IPML subsystem was unable to initialize the IPML TCP server connection for the specified service. This situation is most likely caused by a problem internal to either DM itself or the IPML library, and is unlikely to have been caused by the user. There may be a lack of IPML resources sufficient to set up the server connection, or DM may have passed corrupt information. Regardless of the cause, DM will not operate properly and will likely terminate itself; and because DM is integral to the operation of the system, it is likely that the system will automatically reboot itself.

Remedy

Note the information provided in the log message (i.e. callback address and TCP port number) as indications of the data supplied by DM to IPML. Because of the severity of this problem and the likelihood that much of the system may not be operational, capturing all messages appearing on the console is important in determining what has gone wrong. If it's possible to login then the information from "show tech" and "show memory" will be helpful.

Severity

Critical

Message Text

Initialization of the IPML TCP connection for the `%service%` service the on port `%tcpport%` failed.

Message Parameters

Name	Type
service	String
tcpport	uInt16

DM.InitIPMLClntFail

Description

The IPML subsystem was unable to initialize the IPML client connection for the specified service. This situation is most likely caused by a problem internal to either DM itself or the IPML library, and is unlikely to have been caused by the user. There may be a lack of IPML resources sufficient to set up the client connection, or DM may have passed corrupt information. Regardless of the cause, the application will not operate properly and will likely terminate itself; and depending on the integral nature of the application to the operation of the system, it is possible that the system will automatically reboot itself.

Remedy

Note the information provided in the log message (i.e. the name of the service). Depending on the application involved and the severity of this problem, it may be that some of the system may not be operational, so capturing all messages appearing on the console is important in determining what has gone wrong. The information from "show tech" and "show memory" will be helpful in determining why this failure has occurred.

Severity

Critical

Message Text

Initialization of the client IPML TCP connection for the `%service%` service failed.

Message Parameters

Name	Type
service	String

DM.AllocMemFail

Description

There was not sufficient memory available to allocate the object(s) specified. This situation is most likely caused by a problem internal to DM itself or the memory management subsystem, and is unlikely to have been caused by the user.

Remedy

Note the information provided in the log message (i.e. the name of the object being allocated). The information from "show tech" and "show memory" will be helpful in determining why this failure has occurred.

Severity

Critical

Message Text

Allocation of memory needed for the `%object%` failed.

Message Parameters

Name	Type
object	String

DM.InPwrUsageChg

Description

This event is controlled by the CLI command 'configure power monitor poll-interval <seconds> change-action ...'. This event is logged only if change-action is explicitly configured to 'log' or 'log-and-trap'.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Input Power Usage `%changed%` from `%lastInputPowerUsage%`W to `%currentInputPowerUsage%`W

Message Parameters

Name	Type
changed	String
lastInputPowerUsage	uInt32
currentInputPowerUsage	uInt32

DM.InPwrUsageStrt

Description

This event is controlled by the CLI command 'configure power monitor poll-interval [off | <seconds>] change-action ...'. This event is logged only if poll-interval is explicitly configured in seconds.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Input Power Usage at start is `%powerUsage%`W

Message Parameters

Name	Type
powerUsage	uInt32

DM.SensorAlarmDtect

Description

SENSOR State Alarm has been detected. port: List port number and slot if in stack. sensorName values: Temperature Sensor VCC Voltage Sensor TX Bias Current Sensor TX Power Sensor RX Power Sensor Unknown Sensor RX Power Channel 1 Sensor RX Power Channel 2 Sensor RX Power Channel 3 Sensor RX Power Channel 4 Sensor TX Bias Current Channel 1 Sensor TX Bias Current Channel 2 Sensor TX Bias Current Channel 3 Sensor TX Bias Current Channel 4 Sensor sensorState values: unkown low alarm low warning normal high warning high alarm sensorValue: Value of sensor.

Remedy

Check the port transceiver statistics. Monitor issue, until a Normal State Alarm log message is received. If a Normal State is not received check the cable or connection.

Severity

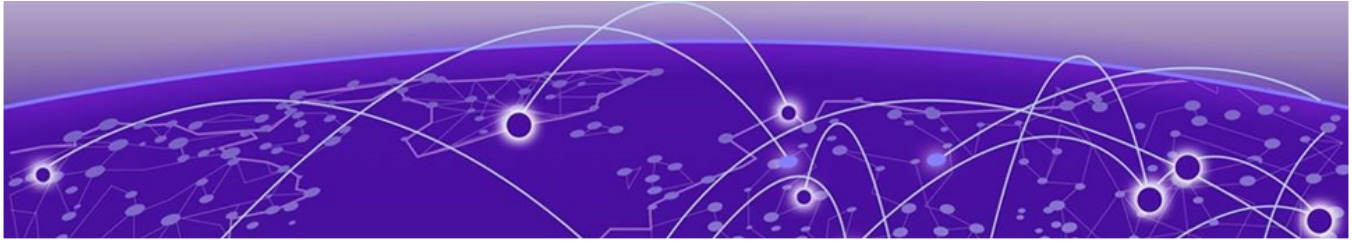
Notice

Message Text

Port `%port%` `%sensorName%=%sensorState%` Value=`%sensorValue%`.

Message Parameters

Name	Type
port	SlotPort
sensorName	String
sensorState	String
sensorValue	String



DM.Card Messages

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DM.Card.DebugVerbose on page 709
DM.Card.DebugData on page 709

DM.Card.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Card.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Card.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Card.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Card.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Card.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Card.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

DM.Card.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

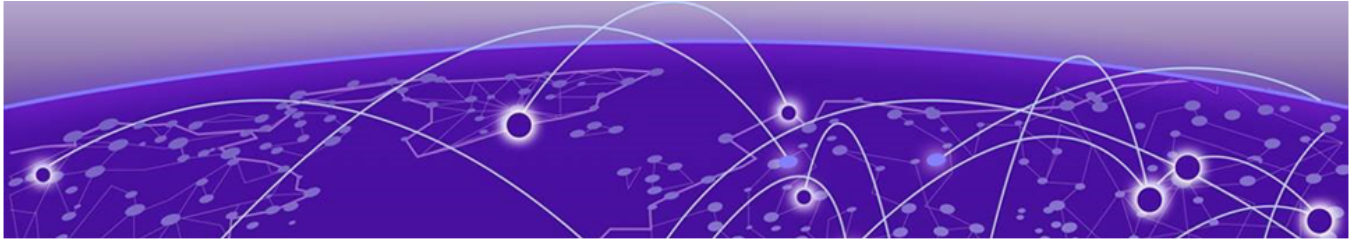
Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



DNSCache Messages

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DNSCache.AddNFTTblOK on page 724
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DNSCache.AddNFTRuleOK on page 725
DNSCache.DelNFTRuleFail on page 725
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DNSCache.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

DNSCache.EnblVLAN

Description

Informational message that the DNS cache has been enabled on the VLAN.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS cache enabled on VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

DNSCache.EnblVR

Description

DNS cache has been enabled on the VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS cache enabled on VR `%vr%`

Message Parameters

Name	Type
vr	VR

DNSCache.DsblVR

Description

DNS cache has been disabled on the VR

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS cache disabled on VR `%vr%`

Message Parameters

Name	Type
vr	VR

DNSCache.DsblVLAN

Description

DNS cache has been disabled on the VLAN.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS cache disabled on VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

DNSCache.DsblLastVLAN

Description

DNS cache has been disabled on the last enabled VLAN. Therefore the DNS cache is to be terminated.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS cache disabled on last enabled VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

DNSCache.DelVLAN

Description

The VLAN has been deleted where DNS cache was enabled.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS cache enabled VLAN `%vlan%` is deleted

Message Parameters

Name	Type
vlan	VLAN

DNSCache.DelLastVLAN

Description

The VLAN has been deleted where DNS cache was enaled. This was the only VLAN at this time which has DNS enabled. Therefore DNS cache is to be terminated.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS cache terminated as the last DNS cache enabled vlan `%vlan%` is deleted

Message Parameters

Name	Type
vlan	VLAN

DNSCache.AddVLAN

Description

New VLAN created in a VR where DNS cache was enabled. Therefore DNS cache is enabled on this new VLAN also.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS cache enabled on the created VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

DNSCache.AddNameSrvr

Description

DNS cache name server has been added for the VR. This name server would be used to forward the DNS queries in that VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Name server `%server%` added for VR `%vr%`

Message Parameters

Name	Type
server	IP
vr	VR

DNSCache.DelNameSrvr

Description

DNS cache name server has been deleted for the VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Name server `%server%` deleted for VR `%vr%`

Message Parameters

Name	Type
server	IP
vr	VR

DNSCache.CfgVLANIP

Description

Primary IP address has been configured for the VLAN. This would result in adding NFT table rule for the VLAN thus making DNS cache operational for the VLAN.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

IP address configured for VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

DNSCache.UncfgVLANIP

Description

Primary IP address has been unconfigured for the VLAN. This would result in NFT rule unconfigure for the VLAN thus DNS cache operational down for the VLAN.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

IP address unconfigured for vlan `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

DNSCache.SetVLANOperState

Description

DNS cache operational state for vlan has been set. This should be result of primary ip address configuration for the vlan.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Operational state for vlan `%vlan%` set to `%state%`

Message Parameters

Name	Type
vlan	VLAN
state	String

DNSCache.StopForRestart

Description

DNS cache is to be restarted as name server updated. Thus the dnsmasq process is killed now.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Dnsmasq process with pid `%pid%` VR `%vr%` stopped for restart

Message Parameters

Name	Type
pid	uInt64
vr	VR

DNSCache.InstlTCPACLOK

Description

ACL to lift the TCP DNS packets has been installed successfully.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

TCP ACL installed successfully

DNSCache.InstlUDPACLOK

Description

ACL to lift the UDP DNS packets installed successfully.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

UDP ACL installed successfully

DNSCache.InstlTCPACLFail

Description

Installation failed for ACL to lift the TCP DNS packets. DNS cache would not be enabled successfully.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

TCP ACL installation failed

DNSCache.InstlUDPACLFail

Description

Installation of ACL to lift the UDP DNS packets failed. DNS cache would not be enabled successfully.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

UDP ACL installation failed

DNSCache.Strt

Description

Dnsmasq process has been started for the VR.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Dnsmasq pid `%pid%` started for VR `%vr%`

Message Parameters

Name	Type
pid	uInt64
vr	VR

DNSCache.Stop

Description

Dnsmasq process has been stopped for the VR.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Dnsmasq pid `%pid%` stopped for vr `%vr%`

Message Parameters

Name	Type
pid	uInt64
vr	VR

DNSCache.CfgNFTFail

Description

NFT command execution resulted in error. This would result in impact on DNS cache operational state.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

NFT command error `%error%`

Message Parameters

Name	Type
error	String

DNSCache.AddNFTTblFail

Description

DNS cache NFT table and chain add commands failed. This would impact the DNS cache operational state.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

NFT table add failed

DNSCache.AddNFTTblOK

Description

NFT table and chains added successfully for DNS cache.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

NFT table added successfully

DNSCache.AddNFTRuleFail

Description

NFT rules addition to redirect the DNS packets to dnsmasq process has failed. This would impact the operational state of the VLAN.

Remedy

No action reqired - Informational message only.

Severity

Debug-Verbose

Message Text

NFT rule addition for vlan `%vlan%` failed

Message Parameters

Name	Type
vlan	VLAN

DNSCache.AddNFTRuleOK

Description

NFT rules for vlan added successfully.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

NFT rule for vlan `%vlan%` added successfully

Message Parameters

Name	Type
vlan	VLAN

DNSCache.DelNFTRuleFail

Description

Deletion of NFT rule for vlan has failed. This would impact the operational state of the vlan.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

NFT rule deletion for vlan `%vlan%` failed

Message Parameters

Name	Type
vlan	VLAN

DNSCache.DelNFTRuleOK

Description

NFT rules are deleted successfully for the VLAN.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

NFT rule for vlan `%vlan%` deleted successfully

Message Parameters

Name	Type
vlan	VLAN

DNSCache.DelVR

Description

The VR has been deleted where DNS cache was enabled. Therefore DNS cache is terminated.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS cache enabled VR `%vr%` is deleted

Message Parameters

Name	Type
vr	VR

DNSCache.DelNFTTblOK

Description

NFT table and chains deleted successfully for DNS cache.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

NFT table deleted successfully

DNSCache.DelNFTTblFail

Description

DNS cache NFT table deletion command failed. This would impact the DNS cache operational state.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

NFT table deletion failed

DNSCache.DsblNetLoginVLAN

Description

NetLogin VLAN need to process the DNS resolving of base-url. Also a client resides in NetLogin VLAN only during the authentication state. Therefore enabling DNS cache on NetLogin VLAN would result in conflict and not essential. Thus when DNS cache is enabled on a VR and the NetLogin VLAN is part of this VR, automatically DNS cache is disabled on the NetLogin VLAN and enabled on all other VLANs of the VR.

Remedy

No action required - Informational message only.

Severity

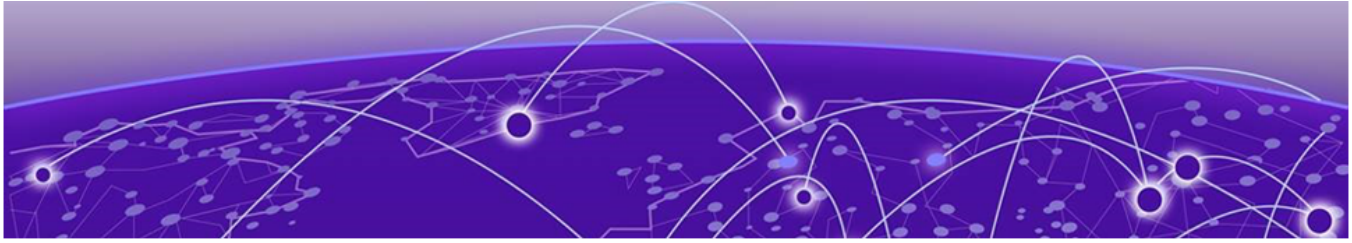
Info

Message Text

DNS cache disabled on NetLogin VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN



DNSCache.Analytics Messages

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DNSCache.Analytics.EnblVR on page 730
DNSCache.Analytics.AllocFail on page 731
DNSCache.Analytics.InitFail on page 732
DNSCache.Analytics.CreatThreadFail on page 732
DNSCache.Analytics.StrtMntrLog on page 733
DNSCache.Analytics.StopMntrLog on page 733
DNSCache.Analytics.DumpLogMsg on page 734
DNSCache.Analytics.ReadFail on page 734
DNSCache.Analytics.WritFail on page 735
DNSCache.Analytics.EnblVRMaxExcd on page 735
DNSCache.Analytics.SendCkptData on page 736
DNSCache.Analytics.SendCkptTLVFail on page 736
DNSCache.Analytics.CreatISC on page 737
DNSCache.Analytics.DelISC on page 737
DNSCache.Analytics.RecvISCLinkUp on page 738
DNSCache.Analytics.RecvISCLinkDown on page 739
DNSCache.Analytics.ISCNormTimeFctr on page 739
DNSCache.Analytics.CkptReqISC on page 740
DNSCache.Analytics.RecvCkptReqISC on page 740
DNSCache.Analytics.IgnCkptMsgISCUnkOwner on page 741
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DNSCache.Analytics.EnblFail

Description

This event occurs when DNS Cache Analytics cannot be enabled for a VR. Error number thrown might interest developer in debugging.

Remedy

No remedy is available.

Severity

Error

Message Text

DNS Cache Analytics could not be enabled for VR `%vrName%`. Return with error `%error%`

Message Parameters

Name	Type
vrName	String
error	sInt32

DNSCache.Analytics.DsblVR

Description

This event occurs when DNS cache analytics is disabled for a VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS Cache Analytics has been disabled for VR `%vrName%`

Message Parameters

Name	Type
vrName	String

DNSCache.Analytics.EnblVR

Description

This event occurs when DNS cache analytics is enabled for a VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DNS Cache Analytics has been enabled for VR `%vrName%`

Message Parameters

Name	Type
vrName	String

DNSCache.Analytics.AllocFail

Description

This event occurs when allocation of memory fails.

Remedy

Enter optional Remedy here

Severity

Critical

Message Text

Allocation of memory failed in function `%function%`, line `%line%` for bytes `%bytes%`

Message Parameters

Name	Type
function	String
line	uInt
bytes	uInt

DNSCache.Analytics.InitFail

Description

This event occurs when Initializtion of dnsAnalytics process fails.

Remedy

No remedy is available.

Severity

Error

Message Text

DNS Cache Analytics Engine Initialization failed. Error `%error%`

Message Parameters

Name	Type
error	uInt

DNSCache.Analytics.CreatThreadFail

Description

This event occurs when reader thread could not be created.

Remedy

No remedy is available.

Severity

Error

Message Text

Reader thread could not be created.

DNSCache.Analytics.StrtMntrLog

Description

This event occurs when DNS Analytics process is going to start monitoring dnsmasq logs.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Dnsmasq log file is going to be monitored for VR `%vrName%`

Message Parameters

Name	Type
vrName	String

DNSCache.Analytics.StopMntrLog

Description

This event occurs when DNS Analytics process is going to stop monitoring dnsmaq log file.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Monitoring of dnsmasq log file is going to be stopped for VR `%vrName%`

Message Parameters

Name	Type
vrName	String

DNSCache.Analytics.DumpLogMsg

Description

This event just dumps internal logs of Dnsmasq process.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

```
%message%
```

Message Parameters

Name	Type
message	String

DNSCache.Analytics.ReadFail

Description

This event occurs when read from pipe or log file fails.

Remedy

No remedy is available.

Severity

Error

Message Text

```
%message%s
```

Message Parameters

Name	Type
message	Printf

DNSCache.Analytics.WritFail

Description

This event occurs when write to either pipe or log file fails.

Remedy

No remedy is available.

Severity

Error

Message Text

```
%message%s
```

Message Parameters

Name	Type
message	Printf

DNSCache.Analytics.EnblVRMaxExcd

Description

This event occurs when DNS Cache Analytics feature has been enabled for maximum number of VRs.

Remedy

No remedy is available.

Severity

Error

Message Text

DNS Cache Analytics could not be enabled for VR `%vrName%`. Maximum VR Limit of `%vrLimit%` reached

Message Parameters

Name	Type
vrName	String
vrLimit	uInt

DNSCache.Analytics.SendCkptData

Description

This event occurs when Master node sends Checkpointing data to Backup.

Remedy

This message exists for debug operations. Only enable this message on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

DNS Analytics Data has been sent from Master to Backup node.

DNSCache.Analytics.SendCkptTLVFail

Description

This event occurs when Master fails to send Checkpointing data to Backup.

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to send Checkpoint message type `%type%` size `%size%`

Message Parameters

Name	Type
type	uInt
size	uInt

DNSCache.Analytics.CreatISC

Description

This event occurs when ISC Create callback has been called.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

ISC id `%iscIdx%` has been created.

Message Parameters

Name	Type
iscIdx	uInt16

DNSCache.Analytics.DelISC

Description

This event occurs when ISC Delete callback has been called.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

ISC id `%iscIdx%` has been deleted.

Message Parameters

Name	Type
iscIdx	uInt16

DNSCache.Analytics.RecvISCLinkUp

Description

This event occurs when MLAG node received ISC link up message.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received link up message for ISC id `%iscIdx%`.

Message Parameters

Name	Type
iscIdx	uInt16

DNSCache.Analytics.RecvISCLinkDown

Description

This event occurs when MLAG node received ISC link down message.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received link down message for ISC id `%iscIdx%`.

Message Parameters

Name	Type
iscIdx	uInt16

DNSCache.Analytics.ISCNormTimeFctr

Description

This event occurs when MLAG node calculates normalization time factor based on timestamp received from peer node.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Normalization time factor of ISC id `%iscIdx%` is `%factor%`

Message Parameters

Name	Type
iscIdx	uInt16
factor	sInt64

DNSCache.Analytics.CkptReqISC

Description

This event occurs when MLAG node is requesting analytics statistics to other MLAG node.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Checkpoint request for DNS analytics statistics after timestamp `%timeStamp%` sent through ISC id `%iscIdx%`.

Message Parameters

Name	Type
iscIdx	uInt16
timeStamp	uInt64

DNSCache.Analytics.RecvCkptReqISC

Description

This event occurs when MLAG node receives checkpoint request from peer.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received checkpoint request from ISC id `%iscIdx%` to share DNS analytics statistics after timestamp `%timeStamp%`

Message Parameters

Name	Type
iscIdx	uInt16
timeStamp	uInt64

DNSCache.Analytics.IgnCkptMsgISCUnkOwner

Description

This message indicates that the received checkpoint message is being ignored since the owner field in the packet header is not valid.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Ignore checkpoint message from ISC id `%iscIdx%`, invalid owner role = `%role%`

Message Parameters

Name	Type
iscIdx	uInt16
role	uInt8

DNSCache.Analytics.IgnCkptMsgISCUnkVer

Description

This message indicates that the received checkpoint message is being ignored since the version is not compatible with the running version.

Remedy

Ensure the EXOS versions on the M-LAG peers are compatible. One of the M-LAG may require an upgrade to a more recent version of EXOS.

Severity

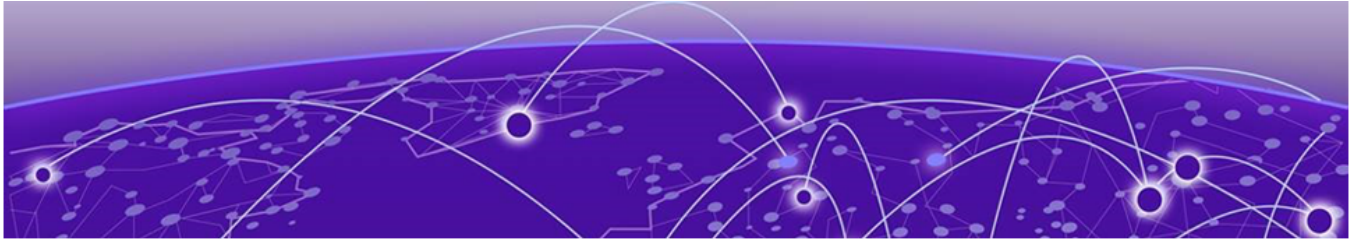
Debug-Summary

Message Text

Ignore checkpoint message from ISC id `%iscIdx%`, unknown version `%rxVer%`, supported version `%ver%`.

Message Parameters

Name	Type
iscIdx	uInt16
rxVer	uInt16
ver	uInt16



DOSProt Messages

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DOSProt.DuplACLDtect

Description

This event is triggered when an required ACL is already present. If this occurs the remaining time for the existing ACL will reset to the configured value.

Remedy

This is an informational massage and no action is required.

Severity

Info

Message Text

Duplicate ACL detected, extending time of ACL `%aclname%`

Message Parameters

Name	Type
aclname	String

DOSProt.AddACLOK

Description

This event is triggered when a DOS Protect ACL needs to be added. It also reports the parameters used to create the ACL

Remedy

This is an informational massage and no action is required.

Severity

Info

Message Text

Added an ACL to port `%port%`, srcIP `%sip%` to destIP `%dip%`, protocol `%prot%`

Message Parameters

Name	Type
port	SlotPort
sip	srcIP
dip	dstIP
prot	String

DOSProt.DelACLOK

Description

This event is triggered when a DOS Protect ACL is deleted. It also reports the parameters of the deleted ACL

Remedy

This is an informational massage and no action is required.

Severity

Info

Message Text

Removed ACL from port `%port%`, srcIP `%sip%` to destIP `%dip%`, protocol `%prot%`

Message Parameters

Name	Type
port	SlotPort
sip	srcIP
dip	dstIP
prot	String

DOSProt.PtrnNotFnd

Description

This event is logged when no traffic pattern could be found. DOS Protect tries to match patterns based on the source and destination IP addresses.

Remedy

This is an informational massage and no action is required.

Severity

Info

Message Text

No traffic pattern found

DOSProt.DebugSummary

Description

This is debug message used for product development only.

Remedy

This is debug message used for product development only, and should not appear in a customer environment, unless loggin is setup incorrectly. On special request

from Extreme Networks Technical Support this message might be enabled gather advanced debug information. (Technical Support would only enable this on request from engineering, due to the lo level content).

Severity

Debug-Summary

Message Text

```
%str%
```

Message Parameters

Name	Type
str	Printf

DOSProt.DebugVerbose

Description

This is debug message used for product development only.

Remedy

This is debug message used for product development only, and should not appear in a customer environment, unless loggin is setup incorrectly. On special request from Extreme Networks Technical Support this message might be enabled gather advanced debug information. (Technical Support would only enable this on request from engineering, due to the lo level content).

Severity

Debug-Verbose

Message Text

```
%str%
```

Message Parameters

Name	Type
str	Printf

DOSProt.DebugData

Description

This is debug message used for product development only.

Remedy

This is debug message used for product development only, and should not appear in a customer environment, unless loggin is setup incorrectly. On special request from Extreme Networks Technical Support this message might be enabled gather advanced debug information. (Technical Support would only enable this on request from engineering, due to the lo level content).

Severity

Debug-Data

Message Text

```
%str%
```

Message Parameters

Name	Type
str	Printf

DOSProt.InitIPMLFail

Description

The DOS Protection application could not open a communication instance used for communicating with the directory services.

Remedy

This problem will cause the DOS Protection application to fail at startup. If this happens again after a reboot, get in touch with Extreme Networks Technical Support (Who will need to get in touch with Engineering).

Severity

Error

Message Text

Could not create IPML client service for Directory Service

DOSProt.SetDOSDevFail

Description

The DOS Protection application could not setup the kernel DOS device driver correctly.

Remedy

This problem will cause the DOS Protection application to fail at startup. If this happens again after a reboot, get in touch with Extreme Networks Technical Support (Who will need to get in touch with Engineering).

Severity

Error

Message Text

Could not set dos device fd `%dev%` to O_NONBLOCK

Message Parameters

Name	Type
dev	sInt

DOSProt.StartLibFail

Description

The DOS Protection application could not register the required libraries to startup the application.

Remedy

This problem might cause the DOS Protection application to fail at startup. If this happens again after a reboot, get in touch with Extreme Networks Technical Support (Who will need to get in touch with Engineering) to determine the cause.

Severity

Error

Message Text

Failed starting library group `%group%`: `%error%`

Message Parameters

Name	Type
group	Char
error	String

DOSProt.UnExpDevErr

Description

The DOS Protection application received end of file while accessing the /dev/dos device.

Remedy

The /dev/dos device should never return end of file, and this event needs to be escalated to Extreme Networks Technical Support (who need to escalate this to Engineering for further research). If available with details on how to replicate this event.

Severity

Error

Message Text

Unexpected end-of-file communicating with /dev/dos

DOSProt.Init

Description

This event gets generated when all resources for DOS Protection are sucesfully allocated, and the application is ready.

Remedy

This is an informational massage and no action is requered.

Severity

Info

Message Text

DOS protect application started successfully

DOSProt.PktCntExcd

Description

This message gets logged when the packet count exceeds the configured notify-threshold value.

Remedy

This is an informational massage and no action is requered.

Severity

Info

Message Text

Notify-threshold for %s% packet count of %d% reached

Message Parameters

Name	Type
s	String
d	uInt

DOSProt.CreateACLFail

Description

This event is triggered when the maximum number of ACLs DOS Protect can add is reached.

Remedy

DOS Protect is only allowed to create the reported number of ACLs. If for some reason DOS Protect needs more ACLs it wise to inspect the network and try to stop the ongoing DOS threads.

Severity

Warning

Message Text

No more ACLs available, max of %d% reached

Message Parameters

Name	Type
d	uInt

DOSProt.ReadBktSizeInv

Description

This event is triggered when information received from the DOS Protect kernel module does not match the information expected by the DOS Protect application.

Remedy

This could happen if the version of the kernel module is not in line with the version of the DOS Protect application. As we currently only support full system upgrade this should not be a problem. If this problem is not solved by a system reboot (re-initialization of the kernel), get in touch with the Extreme Networks Technical Support organization (who will need to get in touch with Engineering after replication).

Severity

Warning

Message Text

Read size %rc% not equal to %strct% size %size%

Message Parameters

Name	Type
rc	uInt
size	uInt
strct	String

DOSProt.RecvNotifyInv

Description

This event is triggered when information received from the DOS Protect kernel module does not match the information expected by the DOS Protect application.

Remedy

This could happen if the version of the kernel module is not in line with the version of the DOS Protect application. As we currently only support full system upgrade this should not be a problem. If this problem is not solved by a system reboot (re-initialization of the kernel), get in touch with the Extreme Networks Technical Support organization (who will need to get in touch with Engineering after replication).

Severity

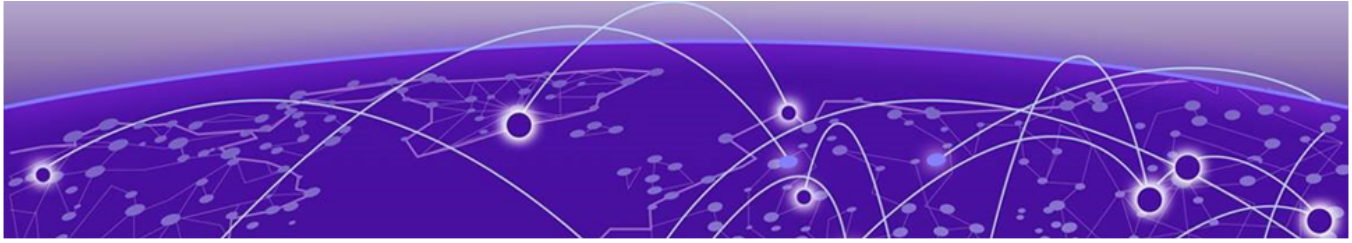
Warning

Message Text

Invalid notification type `%type%` received

Message Parameters

Name	Type
type	uInt



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ds.epm_reg_fail

Description

Directory Services can not connect to EPM. Most likely EPM is not running

Remedy

Directory Services will retry connection attempt

Severity

Error

Message Text

Connect to EPM failed with status `%status%`

Message Parameters

Name	Type
status	sInt

ds.epm_reg_done

Description

Directory Services connecedt to EPM for process monitoring

Remedy

none

Severity

Info

Message Text

DS Connected to EPM

ds.rx_serv_fail

Description

Can not establish receive service

Remedy

reboot node

Severity

Warning

Message Text

Can not establish receive service

ds.oom

Description

out of memory

Remedy

reboot node

Severity

Error

Message Text

Can not allocate memory

ds.calc

Description

Direcory Services calculates port number for service

Remedy

none

Severity

Debug-Summary

Message Text

For `%name%` located in chassis `%chassis%` in slot `%slot%` calculated port `%port%`

Message Parameters

Name	Type
chassis	uInt16
slot	Slot
port	uInt16
name	String

ds.entry_inval

Description

Service name does not exist, but request for lookup is delivered.

Remedy

none

Severity

Warning

Message Text

Invalid service `%name%`

Message Parameters

Name	Type
name	String

ds.init_port

Description

Directory Services port number opens range of port numbers to be given to services

Remedy

none

Severity

Notice

Message Text

Directory Services port number `%port%`

Message Parameters

Name	Type
port	uInt16

ds.pcfg_init_fail

Description

out of memory

Remedy

reboot node

Severity

Error

Message Text

Can not init Port Configuration, failed with status `%status%`

Message Parameters

Name	Type
status	sInt

ds.pcfg_read_fail

Description

can not read existing port numbers saved across direcotry services restart

Remedy

continue with new ports registration by giving new port numbers

Severity

Error

Message Text

Read of Port Configuration failed with status `%status%`

Message Parameters

Name	Type
status	uInt

ds.clisub_fail

Description

Can not connect to CLI master

Remedy

retry

Severity

Error

Message Text

Failed to Initialize CLI subagent

ds.orsub_fail

Description

Can not connect to configuration manager

Remedy

retry

Severity

Error

Message Text

Failed to Initialize Object Router subagent

ds.rx_fail

Description

Invalid message

Remedy

none

Severity

Debug-Summary

Message Text

Receive messages from peer `%peerId%` name `%name%` failed with status `%status%`

Message Parameters

Name	Type
status	sInt
peerId	uInt
name	String

ds.msg_reg

Description

service registration

Remedy

none

Severity

Info

Message Text

Register Service name `%name%` located in chassis `%chassis%` in slot `%slot%`

Message Parameters

Name	Type
name	String
chassis	uInt
slot	uInt

ds.msg_dereg

Description

service deregistration

Remedy

none

Severity

Info

Message Text

Deregister Service name `%name%` located in chassis `%chassis%` in slot `%slot%`

Message Parameters

Name	Type
name	String
chassis	uInt
slot	uInt

ds.msg_lookup

Description

Lookup of the service

Remedy

none

Severity

Debug-Summary

Message Text

Lookup Service name `%name%` located in chassis `%chassis%` in slot `%slot%`

Message Parameters

Name	Type
name	String
chassis	uInt
slot	uInt

ds.send_fail

Description

Transmit of packet failed

Remedy

reboot node

Severity

Debug-Summary

Message Text

Send to peer `%peerId%` name `%name%` failed with status `%status%`

Message Parameters

Name	Type
status	sInt
peerId	uInt
name	String

ds.pkt_err

Description

out of memory

Remedy

reboot node

Severity

Error

Message Text

Can not allocate a packet

ds.lookup_attr

Description

Lookup of the service

Remedy

none

Severity

Info

Message Text

Looking for `%name%` slot `%slot%` chassis `%chassis%`

Message Parameters

Name	Type
name	String
slot	uInt
chassis	uInt

ds.found_entry

Description

Sucessfully found requested service

Remedy

none

Severity

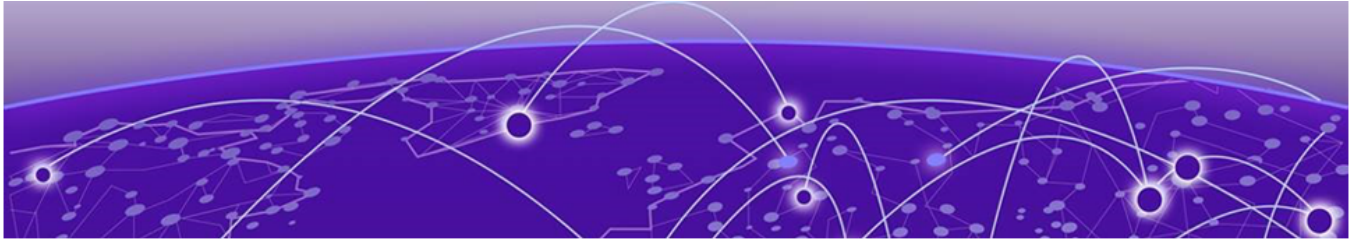
Info

Message Text

Found `%name%` slot `%slot%` chassis `%chassis%`

Message Parameters

Name	Type
name	String
slot	uInt
chassis	uInt



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ds.client.lookup_start on page 768
ds.client.lookup_end on page 769
ds.client.query_start on page 769
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ds.client.dereg_start on page 770
ds.client.dereg_end on page 771
ds.client.newaddr_start on page 772
ds.client.newaddr_end on page 772
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ds.client.start

Description

Directory Services allocates range of port with its own port as starting point

Remedy

none

Severity

Info

Message Text

Starting Directory Service with port `%port%`

Message Parameters

Name	Type
port	Port

ds.client.reg_start

Description

Service registration to obtain port number

Remedy

none

Severity

Debug-Summary

Message Text

Service Registration for service `%name%` with DS starts

Message Parameters

Name	Type
name	String

ds.client.invalid_entry

Description

service does not exist, but lookup for service port is delivered.

Remedy

none

Severity

Error

Message Text

Invalid service `%name%`

Message Parameters

Name	Type
name	String

ds.client.invalid_attr

Description

attribute include service name, service slot id, chassis id.

Remedy

none

Severity

Error

Message Text

Invalid Service attributes

ds.client.pkt_err

Description

out of memory

Remedy

reboot node

Severity

Error

Message Text

Can not allocate packet

ds.client.send_fail

Description

Can not transmit packet

Remedy

reboot node

Severity

Error

Message Text

Send to Directory Services failed with status `%status%`

Message Parameters

Name	Type
status	sInt

ds.client.rx_fail

Description

Most like connection is broken

Remedy

restart process "dirser"

Severity

Error

Message Text

Receive from directory services failed with status `%status%`

Message Parameters

Name	Type
status	sInt

ds.client.reg_end

Description

End of the registration process

Remedy

none

Severity

Info

Message Text

Registration of service `%name%` with Directory Services finished with status `%status%`

Message Parameters

Name	Type
name	String
status	sInt

ds.client.lookup_start

Description

Direcory services lookup procedure

Remedy

none

Severity

Info

Message Text

DS Lookup service by attribute for service `%name%`

Message Parameters

Name	Type
name	String

ds.client.lookup_end

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

DS Lookup service by attribute for service `%name%` finished with status `%status%`

Message Parameters

Name	Type
name	String
status	sInt

ds.client.query_start

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

DS query service by attribute for service `%name%`

Message Parameters

Name	Type
name	String

ds.client.query_end

Description

Direcory services lookup procedure

Remedy

none

Severity

Info

Message Text

DS query service by attribute for service `%name%` finished with status `%status%`

Message Parameters

Name	Type
name	String
status	sInt

ds.client.dereg_start

Description

Direcory services deregistration procedure. Service needs to be deregistered if process is to be shutdown

Remedy

none

Severity

Debug-Summary

Message Text

Service Deregistration for service `%name%` with DS starts in mode `%mode%`

Message Parameters

Name	Type
name	String
mode	uInt

ds.client.dereg_end

Description

Direcory services deregistration procedure. Service needs to be deregistered if process is to be shutdown

Remedy

none

Severity

Info

Message Text

Deregistration of service `%name%` with Directory Services finished with status `%status%`

Message Parameters

Name	Type
name	String
status	sInt

ds.client.newaddr_start

Description

service requests new port from directory services. Directory Services will ignore existing port (if any) and provide new port number

Remedy

none

Severity

Info

Message Text

Request on the new address starts

ds.client.newaddr_end

Description

service requests new port from directory services. Directory Services will ignore existing port (if any) and provide new port number

Remedy

none

Severity

Info

Message Text

Request on the new address finished with status `%status%`

Message Parameters

Name	Type
status	sInt

ds.client.invalid_input

Description

Invalid input parameters to functions

Remedy

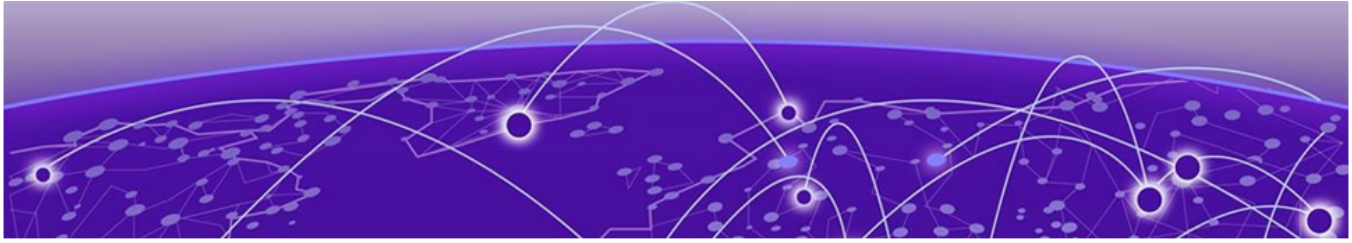
fix code

Severity

Error

Message Text

Invalid input



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EAPS.SyncTrace on page 783
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EAPS.StopProcEvent on page 808
EAPS.TracePriority on page 809
EAPS.TraceAck on page 809
EAPS.DumpSendVlanMgr on page 810
EAPS.TransDmnGrpState on page 810
EAPS.DtctDmnPriMismatch on page 811
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EAPS.Critical

Description

This message is displayed when a critical error has occured in the EAPS subsystem.

Remedy

The administrator needs to contact Extreme Networks to resolve the problem immediately.

Severity

Info

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

EAPS.Error

Description

This message is displayed when a software error has occured.

Remedy

Please contact Extreme Networks with the error message and the conditions under which it occured.

Severity

Error

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

EAPS.Warning

Description

This message is displayed to warn the user about a potential erroneous situation.

Remedy

The remedy will depend on the warning. Please correct the situation from the message.

Severity

Warning

Message Text

`%reason%`

Message Parameters

Name	Type
reason	Printf

EAPS.DmnDebugSummary

Description

This message is displayed when the user is attempting a first level debug of EAPS.

Remedy

None

Severity

Debug-Summary

Message Text

EAPSD `%eapsD%` - `%logMsg%`

Message Parameters

Name	Type
eapsD	EAPS-domain
logMsg	Printf

EAPS.DmnDebugVerbose

Description

This message is displayed when the user is attempting second level debug

Remedy

None

Severity

Debug-Verbose

Message Text

EAPSD `%eapsD%` - `%logMsg%`

Message Parameters

Name	Type
eapsD	EAPS-domain
logMsg	Printf

EAPS.DmnDebugData

Description

This message is displayed when the user is attempting a third level debug. Expect a lot of messages.

Remedy

None

Severity

Debug-Data

Message Text

EAPSD %eapsD% - %logMsg%

Message Parameters

Name	Type
eapsD	EAPS-domain
logMsg	Printf

EAPS.TransPortState

Description

This message is displayed whenever an EAPS port has changed state.

Remedy

Info only

Severity

Info

Message Text

EAPSD %eapsD% - %port% state transition from %oldState% => %newState%

Message Parameters

Name	Type
eapsD	EAPS-domain
port	SlotPort
oldState	String
newState	String

EAPS.PDURecv

Description

This message is displayed when an EAPS PDU has been received.

Remedy

Info only.

Severity

Info

Message Text

EAPSD `%eapsD%` - `%logMsg%`

Message Parameters

Name	Type
eapsD	EAPS-domain
logMsg	Printf

EAPS.DmnInfo

Description

This message is displayed as an informational to the user.

Remedy

Info only.

Severity

Info

Message Text

EAPSD `%eapsD%` - `%logMsg%`

Message Parameters

Name	Type
eapsD	EAPS-domain
logMsg	Printf

EAPS.TransDmnState

Description

This message is displayed when the EAPS domain undergoes a state change.

Remedy

Info only.

Severity

Info

Message Text

EAPSD `%eapsD%` - State transition from `%oldState%` => `%newState%`

Message Parameters

Name	Type
eapsD	EAPS-domain
oldState	String
newState	String

EAPS.DebugSummary

Description

EAPS Debug message displayed when user wishes to view basic debug information.

Remedy

Debug level 1.

Severity

Debug-Summary

Message Text

`%logMsg%`

Message Parameters

Name	Type
logMsg	Printf

EAPS.DebugVerbose

Description

EAPS Debug message displayed when user wishes to view most of the debug information.

Remedy

Debug level 2.

Severity

Debug-Verbose

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

EAPS.DebugData

Description

EAPS Debug message displayed when user wishes to all of the debug information.

Remedy

Debug level 3.

Severity

Debug-Data

Message Text

`%logMsg%`

Message Parameters

Name	Type
logMsg	Printf

EAPS.SyncSkipDomain

Description

Debug logs that show us what domains are being skipped.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Skipping Domain `%domain%` `%info%`

Message Parameters

Name	Type
domain	String
info	Printf

EAPS.SyncTrace

Description

Trace through syncing process

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

```
%info%
```

Message Parameters

Name	Type
info	Printf

EAPS.Notification

Description

General user notification

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%info%
```

Message Parameters

Name	Type
info	Printf

EAPS.RxNetTxFail

Description

Getting an error when receiving from NetTx.

Remedy

The error number given by errno should give a clue to what may be causing the problem between NetTx and EAPS.

Severity

Warning

Message Text

Error when receiving from NetTx (errno = `%tmp_errno%`)

Message Parameters

Name	Type
tmp_errno	uInt

EAPS.RxEEPVerInv

Description

EAPS PDU being dropped because the EEP Version is not supported. The version should be 1.

Remedy

The sending system could be running an incompatible version of EEP running on this system. Please check build information on both systems.

Severity

Warning

Message Text

`%slotPort%`, `%vlan%` - Invalid EEP Version (`%EEPVer%`)

Message Parameters

Name	Type
slotPort	SlotPort
vlan	VLAN
EEPVer	uInt

EAPS.RxEEPLenInv

Description

EAPS PDU being dropped because the EEP Length is greater than the length of the packet.

Remedy

If the length in EEP header is greater than that of the entire packet length, it could be due to a programming error while setting the EEP length. Or if the EEP length itself is ok, then the packet may have been truncated. May have to capture the packet using a sniffer for further analysis.

Severity

Warning

Message Text

`%slotPort%`, `%vlan%` - EEP Length (`%EEPLen%`) greater than packet length (`%packetLen%`)

Message Parameters

Name	Type
slotPort	SlotPort
vlan	VLAN
EEPLen	uInt
packetLen	uInt

EAPS.RxPktLenInv

Description

EAPS PDU being dropped because the packet length is less than the length of the header.

Remedy

Please capture the packet using a sniffer for further analysis.

Severity

Debug-Summary

Message Text

`%slotPort%`, `%vlan%` - Packet Length (`%packetLen%`) less than header size (`%headerSize%`)

Message Parameters

Name	Type
slotPort	SlotPort
vlan	VLAN
packetLen	uInt
headerSize	uInt

EAPS.Rx8021QtagInv

Description

EAPS PDU being dropped because the vlanTypeLength field in the ethernet header does not match the default ethernet value for 8021Q Tag.

Remedy

Possible programming error or misconfiguration of VMANs, QinQ, Mac-In-Mac. Check if an ACL may have modified the vlanTypeLength field.

Severity

Warning

Message Text

`%slotPort%`, `%vlan%` - VlanTypeLength (`%vlanTypeLen%`) not equal to default Ethernet value (`%defaultEthVal%`)

Message Parameters

Name	Type
slotPort	SlotPort
vlan	VLAN

Name	Type
vlanTypeLen	uInt
defaultEthVal	uInt

EAPS.RxSNAPInv

Description

EAPS PDU being dropped because the SNAP value is invalid.

Remedy

Possible programming error. May have to capture packet using sniffer, and comparing with packet data at sending stations egress port. If sending station's packet itself has an incorrect SNAP Id, then most likely programming error while packet being created. If the sending station's packet data differs from this packet, it would need further troubleshooting to isolate where in the network the SNAP field is getting modified.

Severity

Warning

Message Text

`%slotPort%`, `%vlan%` - SNAP (`%snap%`) is invalid. Correct value is (`%defaultSnap%`)

Message Parameters

Name	Type
slotPort	SlotPort
vlan	VLAN
snap	xInt32
defaultSnap	xInt32

EAPS.RxOUIInv

Description

EAPS PDU being dropped because the OUI value is invalid.

Remedy

Possible programming error. May have to capture packet using sniffer, and comparing with packet data at sending stations egress port. If sending station's packet itself has incorrect OUI, then most likely programming error while packet being created. If the sending station's packet data differs from this packet, it would need further troubleshooting to isolate where in the network the OUI fields are getting modified.

Severity

Warning

Message Text

`%slotPort%`, `%vlan%` - OUI (`%oui0%` : `%oui1%` : `%oui2%`) is invalid. Correct OUI is 00:E0:2B

Message Parameters

Name	Type
slotPort	SlotPort
vlan	VLAN
oui0	xInt8
oui1	xInt8
oui2	xInt8

EAPS.RxEEPChecksumInv

Description

EAPS PDU being dropped because the EEP checksum is invalid.

Remedy

This could be due to errors in packet memory. Other possible cause could be programming error on transmitting system.

Severity

Warning

Message Text

`%slotPort%`, `%vlan%` - Invalid EEP Checksum

Message Parameters

Name	Type
slotPort	SlotPort
vlan	VLAN

EAPS.TxNetTxFail

Description

Getting an error when sending to NetTx.

Remedy

The error number given by return value should give a clue to what may be causing the problem between NetTx and EAPS.

Severity

Warning

Message Text

Error when sending to NetTx (Return value = `%retval%`)

Message Parameters

Name	Type
retval	sInt

EAPS.RxDmnInv

Description

This message is displayed when an EAPS PDU has been received on a control vlan which is not associated with any EAPS domain. The PDU will be dropped.

Remedy

If this is a rare occurance, then it should be okay. This could be due to a PDU already sent out on the network, while at the same time the domain on this switch got disabled. If this is happening continuously, then it needs to be determined why the PDU is being sent to EAPS process, but cannot find an EAPS domain corresponding to the control vlan Id.

Severity

Debug-Summary

Message Text

Received PDU `%pduType%` on port `%slotPort%`. No EAPS domain for this Control vlan (vlanId = `%vlanId%`)

Message Parameters

Name	Type
pduType	String
slotPort	SlotPort
vlanId	uInt

EAPS.RxLifInv

Description

This message is displayed when an EAPS PDU has been received on port for which its LIF (logical interface) cannot be found. The PDU will be dropped.

Remedy

Most likely this could be due to a timing related issue where the LIFs are still being formed.

Severity

Debug-Summary

Message Text

EAPSD `%eapsd%` - Received PDU `%pduType%` on port `%slotPort%`. Invalid LIF.

Message Parameters

Name	Type
eapsd	EAPS-domain
slotPort	SlotPort
pduType	String

EAPS.RxLifDown

Description

This message is displayed when an EAPS PDU has been received on port for which its LIF is Down. PDUs will be discarded.

Remedy

Most likely this could be due to a timing related issue where the PDUs were already received in its queue. But, by the time their turn came to be processed, the ingress port was in Down state. In this situation, these PDUs will be discarded.

Severity

Debug-Summary

Message Text

EAPSD `%eapsd%` - Received PDU `%pduType%` on port `%slotPort%` which whose link state is Down.

Message Parameters

Name	Type
eapsd	EAPS-domain
slotPort	SlotPort
pduType	String

EAPS.RxPduAll

Description

This message is displayed whenever any EAPS PDU is received.

Remedy

Should be used only while gathering verbose logs.

Severity

Debug-Verbose

Message Text

EAPSD %eapsd% - Received PDU %pduType% on port %slotPort%

Message Parameters

Name	Type
eapsd	EAPS-domain
slotPort	SlotPort
pduType	String

EAPS.RxAnotherMaster

Description

There are multiple masters on the same EAPS domain. This is due to a configuration error.

Remedy

There can be only 1 EAPS domain configured to be the Master on an EAPS domain corresponding to a control vlan. Configure all other nodes in that domain to Transit mode.

Severity

Warning

Message Text

EAPSD %eapsD% - Received %pduType% from another Master (%mac%) on the same domain.

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxUnconfiguredPort

Description

Received a PDU on a port which is not configured as a ring port on this EAPS domain. The PDU is dropped.

Remedy

This could be either due to a misconfiguration of EAPS ring-ports, or could be due to incorrect cabling while connecting to neighboring switches. Can check connectivity using EDP.

Severity

Warning

Message Text

EAPSD `%eapsD%` - Received `%pduType%` on port `%slotPort%` which is not configured for this domain.

Message Parameters

Name	Type
eapsD	EAPS-domain
slotPort	SlotPort
pduType	String

EAPS.RxHlthPduPriPort

Description

Received Health PDU on the Primary port. EAPS PDUs should never be received on its Primary Port. The PDU is dropped.

Remedy

The most likely cause for this would be the Primary port is configured to be a load-shared trunk on this end, but it is not configured for load-sharing on its neighboring switch. Check configuration, and cabling on Primary port.

Severity

Warning

Message Text

EAPSD %eapsD% - Received %pduType% on port %slotPort% which is the Primary port.

Message Parameters

Name	Type
eapsD	EAPS-domain
slotPort	SlotPort
pduType	String

EAPS.RxPduHealth

Description

This message is displayed when an EAPS Health PDU is received.

Remedy

Use for trouble-shooting.

Severity

Debug-Verbose

Message Text

EAPSD %eapsD% - Received %pduType% (MAC = %mac%)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduLinkDown

Description

This message is displayed when an EAPS LinkDown PDU is received.

Remedy

When a link goes down on a Transit switch, this PDU is received. Remedy is to restore the failed link.

Severity

Info

Message Text

EAPSD `%eapsD%` - Received `%pduType%` (MAC = `%mac%`)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduRingDnFlush

Description

This message is displayed when an EAPS RingDownFlushFDB PDU is received.

Remedy

When the ring has a failure, the Master sends the RingDownFlushFDB message. Remedy is to restore the fault in the ring.

Severity

Info

Message Text

EAPSD `%eapsD%` - Received `%pduType%` (MAC = `%mac%`)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduRingDnFlushDbg

Description

This message is displayed when an EAPS RingDownFlushFDB PDU is received.

Remedy

This message will be logged on a Master node only when debug summary is enabled. Remedy is to restore the fault in the ring.

Severity

Debug-Verbose

Message Text

EAPSD `%eapsD%` - Received `%pduType%` (MAC = `%mac%`)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduRingUpFlush

Description

This message is displayed when an EAPS RingUpFlushFDB PDU is received.

Remedy

The Master sends this message when the ring has been restored. No further action is needed.

Severity

Info

Message Text

EAPSD `%eapsD%` - Received `%pduType%` (MAC = `%mac%`)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduRingUpFlushDbg

Description

This message is displayed when an EAPS RingUpFlushFDB PDU is received.

Remedy

This is only logged if debug summary is enabled. The Master sends this message when the ring has been restored. No further action is needed.

Severity

Debug-Verbose

Message Text

EAPSD `%eapsD%` - Received `%pduType%` (MAC = `%mac%`)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduFlushFdb

Description

This message is displayed when an EAPS FlushFDB PDU is received. This message is typically sent EAPS Shared-ports is flushing the FDBs in its segments.

Remedy

This is only logged if debug summary is enabled.

Severity

Debug-Summary

Message Text

EAPSD `%eapsD%` - Received `%pduType%` (MAC = `%mac%`)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduSuspndPrefwdTmr

Description

This message is displayed when an EAPS Suspend-Preforward-Timer PDU is received. This PDU is sent by chassis based switches running ExtremeWare code when doing an MSM failover.

Remedy

No remedy action needed.

Severity

Info

Message Text

EAPSD %eapsD% - Received %pduType% (MAC = %mac%)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduSuspndPrefwdTmrDbg

Description

This message is displayed when an EAPS Suspend-Preforward-Timer PDU is received. This PDU is sent by chassis based switches running ExtremeWare code when doing an MSM failover.

Remedy

This is a debug message on a Master node. Enable only for troubleshooting with a mixed environment where there are ExtremeWare chassis swiches with EXOS switches, and running MSM failover on the ExtremeWare switch.

Severity

Debug-Verbose

Message Text

EAPSD %eapsD% - Received %pduType% (MAC = %mac%)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduQueryLinkStatus

Description

This message is displayed when an EAPS QueryLinkStatus PDU is received

Remedy

This PDU is typically sent when a Fail timer expires. Check network topology if there is a legitimate failure in the network which is causing the fail timer to expire, or is it due to PDUs not being received in its alloted time. If it is the later, it could be due to misconfiguration of control vlan in the network, or congestion of control traffic in the network or within this switch. Could also be due to CPU being busy. In rare situations it could be a switch in the network with a hardware problem where control PDUs have stopped being forwarded.

Severity

Debug-Summary

Message Text

EAPSD `%eapsD%` - Received `%pduType%` (MAC = `%mac%`)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduLinkUp

Description

This message is displayed when an EAPS LinkUp PDU is received.When a link is restored on a Transit switch, it sends out a LinkUp PDU.

Remedy

This PDU is usually used for debugging purposes. On a Master node, usually, soon after receiving this PDU, it should change its state from Failed to Complete. If the Master does not change its state to Complete within a few seconds, it may need troubleshooting.

Severity

Info

Message Text

EAPSD `%eapsD%` - Received `%pduType%` (MAC = `%mac%`)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduLinkUpDbg

Description

This message is displayed when an EAPS LinkUp PDU is received.When a link is restored on a Transit switch, it sends out a LinkUp PDU.

Remedy

This message is set to debug-verbose severity on a Transit node. No need to log it unless trying to troubleshoot a situation where a Master is not receiving LinkUp PDUs, and we want to determine if intermediate Transit switches see it or not.

Severity

Debug-Verbose

Message Text

EAPSD `%eapsD%` - Received `%pduType%` (MAC = `%mac%`)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPduUnknown

Description

This message is displayed when an EAPS PDU is received which is unknown.

Remedy

Unknown PDUs may be a result of the sending switch running an updated version of EAPS, and sending PDUs that this switch is not recognizing. Please refer to the user guide to see if there could be a compatibility issue, or if this is expected behavior.

Severity

Debug-Summary

Message Text

EAPSD `%eapsD%` - Received `%pduType%` (MAC = `%mac%`)

Message Parameters

Name	Type
eapsD	EAPS-domain
pduType	String
mac	MAC

EAPS.RxPktVlanInv

Description

Could not find a vlan interface corresponding to incoming vlan. Drop the packet.

Remedy

This could be due to a timing situation where the packet came in just before vlan got deleted. If its a rare occurance, this is not a problem, as its a timing related issue, where a packet came into the CPU just before the vlan interface got removed. If this is occuring constantly, it would need further investigation. Start by capturing the packet and detemining the Vlan Id. Show all vlans and see if a vlan exists corresponding to the vlan Id. Provide the results of this initial analysis to engineering.

Severity

Debug-Summary

Message Text

EAPS packet received on port `%slotport%` on an invalid vlan instance `%vlanInstance%`.

Message Parameters

Name	Type
slotport	SlotPort
vlanInstance	uInt32

EAPS.RxPkt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Incoming packet from port `%slotport%` with a length of `%len%` bytes

Message Parameters

Name	Type
slotport	ingressSlotPort
ptr	Buf-ptr
len	Buf-len

EAPS.TxPkt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Outgoing packet to port `%slotport%` with a length of `%len%` bytes

Message Parameters

Name	Type
slotport	egressSlotPort
ptr	Buf-ptr
len	Buf-len

EAPS.DumpTlv

Description

Dumps the checkpointed TLV Info

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

`%object%` Type:`%type%` Length:`%len%`

Message Parameters

Name	Type
object	String
type	uInt32
ptr	Buf-ptr
len	Buf-len

EAPS.DebugCheckpoint

Description

Dump EAPS object checkpointing information.

Remedy

None

Severity

Debug-Verbose

Message Text

`%message%`

Message Parameters

Name	Type
message	Printf

EAPS.FdbFlush

Description

Flushing an EAPS Domain

Remedy

None

Severity

Debug-Summary

Message Text

Flush `%eapsD%` `%logMsg%`

Message Parameters

Name	Type
eapsD	EAPS-domain
logMsg	Printf

EAPS.StrtProcLinkStateChg

Description

EAPS received link state change event.

Remedy

None

Severity

Debug-Data

Message Text

EAPS Received Link State `%state%` change on port `%slotport%` .

Message Parameters

Name	Type
slotport	SlotPort
state	String

EAPS.StopProcLinkStateChg

Description

EAPS received link state change event.

Remedy

None

Severity

Debug-Data

Message Text

Stop EAPS Received Link State `%state%` change on port `%slotport%` .

Message Parameters

Name	Type
slotport	SlotPort
state	String

EAPS.StrtProcEvent

Description

This message is displayed as an informational to the user.

Remedy

Info only.

Severity

Debug-Data

Message Text

Start EAPS Processing for `%eapsD%` event `%event%`

Message Parameters

Name	Type
eapsD	EAPS-domain
event	String

EAPS.StopProcEvent

Description

This message is displayed as an informational to the user.

Remedy

Info only.

Severity

Debug-Data

Message Text

End EAPS Processing for `%eapsD%` event `%event%`

Message Parameters

Name	Type
eapsD	EAPS-domain
event	String

EAPS.TracePriority

Description

This message is displayed as an informational to the user.

Remedy

Info only.

Severity

Debug-Summary

Message Text

`%logMsg%`

Message Parameters

Name	Type
logMsg	Printf

EAPS.TraceAck

Description

EAPS Debug message displayed when user wishes to view ack information.

Remedy

Debug level 1.

Severity

Debug-Summary

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

EAPS.DumpSendVlanMgr

Description

EAPS Debug message displayed when user wishes to view ack information.

Remedy

Debug level 1.

Severity

Debug-Summary

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

EAPS.TransDmnGrpState

Description

This message is displayed when the EAPS domain group undergoes a state change.

Remedy

Informational message only.

Severity

Debug-Summary

Message Text

DomainGroup `%portA%`,`%portB%`- State transition from `%oldState%` => `%newState%`

Message Parameters

Name	Type
portA	SlotPort
portB	SlotPort
oldState	String
newState	String

EAPS.DtctDmnPriMismatch

Description

Mismatch is priority settings between this Transit node and the Master node.

Remedy

Change the priority on Master or this node to be the same.

Severity

Info

Message Text

Mismatch in Domain `%eapsD%` Master is advertising priority `%MasterPri%`. This switch is configured with priority `%ThisPri%`.

Message Parameters

Name	Type
eapsD	EAPS-domain
MasterPri	String
ThisPri	String

EAPS.DmnPriTmout

Description

Priority timer expired indicating matching event for high priority was never received or never checked off.

Remedy

Verify that all domains in ring have matching priorities and that the physical ring is not flapping.

Severity

Debug-Summary

Message Text

DomainGroup `%portA%`,`%portB%` Priority timeout expired. State:`%state%` Pri:`%priority%` chkoffCnt:`%count%`

Message Parameters

Name	Type
portA	SlotPort
portB	SlotPort
state	String
count	uInt32
priority	String

EAPS.RecvDmnPriTransEvent

Description

Processing an transitional event indicating physical ring is failing or recovering

Remedy

Informational message only

Severity

Debug-Summary

Message Text

Received a transitional `%event%` event for domain `%eapsD%`

Message Parameters

Name	Type
eapsD	EAPS-domain
event	String

EAPS.DmnPriTransEventDone

Description

A transitional event has completed.

Remedy

Informational message only

Severity

Debug-Summary

Message Text

Transitional `%event%` event for domain group (ring ports `%port1%`, `%port2%`) completed.

Message Parameters

Name	Type
event	String
port1	SlotPort
port2	SlotPort

EAPS.DmnPriTransEventIgn

Description

Received a transitional event after the domain group state has already transitioned to steady state.

Remedy

Verify that all domains in ring have matching priorities and that the physical ring is not flapping.

Severity

Debug-Summary

Message Text

Received a transitional `%event%` event for domain `%eapsD%` received after event already processed for this domain group. Ignoring event

Message Parameters

Name	Type
event	String
eapsD	EAPS-domain

EAPS.DeqDmnPriEvent

Description

Processing lower priority event queue.

Remedy

Informational message only

Severity

Debug-Summary

Message Text

Domain group (ring ports `%port1%`, `%port2%`) Processing `%pri%` event queue.

Message Parameters

Name	Type
port1	SlotPort
port2	SlotPort
pri	String

EAPS.CFMRxGrpRmtMEPInfo

Description

Received CCM messages from a remote MEP which was learnt

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received remote MEP status for MEP Id `%mepId%` MEP Group `%grp%` groupStatus `%groupStatus%` remote MEP UP `%rmepUp%` CCMDefect `%ccmDef%` Remote domain Defect `%RDID%` Connection CCM defect `%connDef%` Error CCM Defect `%errCCMDef%`

Message Parameters

Name	Type
mepId	uInt32
grp	String
groupStatus	uInt32
rmepUp	uInt32
ccmDef	uInt32
RDID	uInt32
connDef	uInt32
errCCMDef	uInt32

EAPS.CFMRxGrpMEPState

Description

Successfully received information regarding local MEP status

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received MEP status for MEP Id `%mepId%` MEP Group `%grp%` Signal Fail `%SF%`

Message Parameters

Name	Type
mepId	uInt32
grp	String
SF	uInt32

EAPS.CFMSgnlFail

Description

EAPS notified by CFM that a signal failure has occured on a MEP

Remedy

Check link integrity between CFM endpoints.

Severity

Notice

Message Text

Signal Failure for MEP ID `%mepId%` on port `%port%`

Message Parameters

Name	Type
mepId	uInt32
port	SlotPort

EAPS.CFMSgnlFailClr

Description

EAPS notified by CFM that a signal failure has been cleared on a MEP

Remedy

Check link integrity between CFM endpoints.

Severity

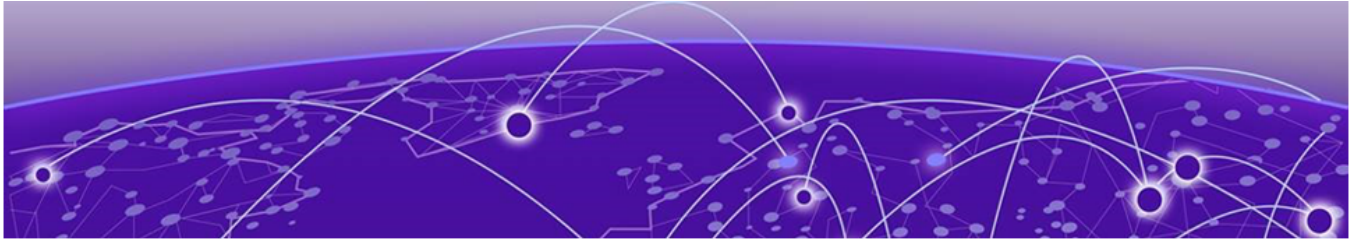
Notice

Message Text

Signal Failure for MEP ID `%mepId%` on port `%port%` has cleared.

Message Parameters

Name	Type
mepId	uInt32
port	SlotPort



EAPS.SharedPort Messages

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EAPS.SharedPort.Critical

Description

This message is displayed when a critical error has occured in the EAPS subsystem.

Remedy

The administrator needs to contact Extreme Networks to resolve the problem immediately.

Severity

Info

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

EAPS.SharedPort.Error

Description

This message is displayed when a software error has occured.

Remedy

Please contact Extreme Networks with the error message and the conditions under which it occured.

Severity

Error

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

EAPS.SharedPort.Warning

Description

This message is displayed to warn the user about a potential erroneous situation.

Remedy

The remedy will depend on the warning. Please correct the situation from the message.

Severity

Warning

Message Text

`%reason%`

Message Parameters

Name	Type
reason	Printf

EAPS.SharedPort.PortDebugSummary

Description

This message is displayed when the user is attempting a first level debug of ESD.

Remedy

None

Severity

Debug-Summary

Message Text

EAPS Shared-port `%esdP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
logMsg	Printf

EAPS.SharedPort.PortDebugVerbose

Description

This message is displayed when the user is attempting second level debug

Remedy

None

Severity

Debug-Verbose

Message Text

EAPS Shared-port `%esdP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
logMsg	Printf

EAPS.SharedPort.PortDebugData

Description

This message is displayed when the user is attempting a third level debug. Expect a lot of messages.

Remedy

None

Severity

Debug-Data

Message Text

EAPS Shared-port `%esdP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
logMsg	Printf

EAPS.SharedPort.TransSegState

Description

This message is displayed whenever an ESD segment port has changed state.

Remedy

Info only

Severity

Info

Message Text

EAPS Shared-port `%esdP%` - Segment-port `%segPort%` state transition from `%oldState%` => `%newState%`

Message Parameters

Name	Type
esdP	SlotPort
segPort	SlotPort
oldState	String
newState	String

EAPS.SharedPort.PDURecv

Description

This message is displayed when an ESD PDU has been received.

Remedy

Info only.

Severity

Info

Message Text

EAPS Shared-port `%esdP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
logMsg	SlotPort

EAPS.SharedPort.PortInfo

Description

This message is displayed as an informational to the user.

Remedy

Info only.

Severity

Info

Message Text

EAPS Shared-port `%esdP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
logMsg	Printf

EAPS.SharedPort.TransDmnState

Description

This message is displayed when the ESD instance undergoes a state change.

Remedy

Info only.

Severity

Info

Message Text

EAPS Shared-port `%esdP%` - State transition from `%oldState%` => `%newState%`

Message Parameters

Name	Type
esdP	SlotPort
oldState	String
newState	String

EAPS.SharedPort.TransPortState

Description

This message is displayed whenever an ESD Shared port (Common Link) has changed state.

Remedy

Info only

Severity

Info

Message Text

EAPS Shared-port `%esdP%` - Shared-port state transition from `%oldState%` => `%newState%`

Message Parameters

Name	Type
esdP	SlotPort
oldState	String
newState	String

EAPS.SharedPort.TransRootBlkState

Description

This message will be displayed when the ESD Root Blocker node has a state transition in its Root-Blocker state.

Remedy

This is for info only.

Severity

Info

Message Text

EAPS Shared-port `%esdP%` - Root-Blocker state transition from `%oldState%` => `%newState%`

Message Parameters

Name	Type
esdP	SlotPort
oldState	String
newState	String

EAPS.SharedPort.DebugSummary

Description

This message will be displayed when the user wants to view a summary of debug statements.

Remedy

Debug level 1.

Severity

Debug-Summary

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

EAPS.SharedPort.DebugVerbose

Description

This message will be displayed when the user wishes to view extra debug statements.

Remedy

Debug level 2

Severity

Debug-Verbose

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

EAPS.SharedPort.DebugData

Description

This message will be displayed when the user wishes to view all possible debug statements.

Remedy

Debug level 3

Severity

Debug-Data

Message Text

`%logMsg%`

Message Parameters

Name	Type
logMsg	Printf

EAPS.SharedPort.PortWarning

Description

This message is displayed to give the user a warning message in EAPS Shared Ports.

Remedy

None

Severity

Warning

Message Text

EAPS Shared-port `%esdP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
logMsg	Printf

EAPS.SharedPort.PortError

Description

This message is displayed to give the user an error message in EAPS Shared Ports.

Remedy

None

Severity

Error

Message Text

EAPS Shared-port `%esdP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
logMsg	Printf

EAPS.SharedPort.PortCritical

Description

This message is displayed to give the user a critical message in EAPS Shared Ports.

Remedy

None

Severity

Critical

Message Text

EAPS Shared-port `%esdP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
logMsg	Printf

EAPS.SharedPort.SegPortWarning

Description

This message is displayed to give the user a warning message on a specific Segment-port in EAPS Shared Ports.

Remedy

None

Severity

Warning

Message Text

EAPS Shared-port `%esdP%`, Segment-port `%esdSP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
esdSP	SlotPort
logMsg	Printf

EAPS.SharedPort.SegPortError

Description

This message is displayed to give the user a error message on a specific Segment-port in EAPS Shared Ports.

Remedy

None

Severity

Error

Message Text

EAPS Shared-port `%esdP%`, Segment-port `%esdSP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
esdSP	SlotPort
logMsg	Printf

EAPS.SharedPort.SegPortCritical

Description

This message is displayed to give the user a critical message on a specific Segment-port in EAPS Shared Ports.

Remedy

None

Severity

Critical

Message Text

EAPS Shared-port `%esdP%`, Segment-port `%esdSP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
esdSP	SlotPort
logMsg	Printf

EAPS.SharedPort.Info

Description

This message is used as an Informational to the user.

Remedy

Informational only.

Severity

Info

Message Text

`%reason%`

Message Parameters

Name	Type
reason	Printf

EAPS.SharedPort.FdbFlush

Description

We are flushing all domains for this shared-port

Remedy

None

Severity

Debug-Summary

Message Text

Shared-port `%esdP%` - Flush Domains `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
logMsg	Printf

EAPS.SharedPort.DebugSdUpSegUpCount

Description

Debug log indicating segment received SegHealthCheck PDU during SD Up checkoff period. When segUpMax is reached we consider the segment as checked off.

Remedy

None

Severity

Debug-Summary

Message Text

EAPS Shared-port `%esdP%` - `%logMsg%`

Message Parameters

Name	Type
esdP	SlotPort
logMsg	Printf

EAPS.SharedPort.SdUpSegUpMaxReached

Description

Log indicating segment received sufficient SegHealthCheck PDUs to check off the segemetn during SD Up checkoff period. When all segments are checked off, shared-port can go to Ready state.

Remedy

None

Severity

Info

Message Text

EAPS Shared-port %esdP% - Segment:%esdIf% (%domain%) Received %segUpMax% Segment Health PDUs before receiving RingUpFlush PDU

Message Parameters

Name	Type
esdP	SlotPort
esdIf	SlotPort
domain	String
segUpMax	sInt

EAPS.SharedPort.DebugSdUpSegCheckedOff

Description

Debug log indicating segment is checked off.

Remedy

None

Severity

Debug-Summary

Message Text

EAPS Shared-port %esdP% - %logMsg%

Message Parameters

Name	Type
esdP	SlotPort
logMsg	Printf

EAPS.SharedPort.VldtSegPortUpDone

Description

Shared-port, on link-up, has validated all of it's segments.

Remedy

No action required - Information message only

Severity

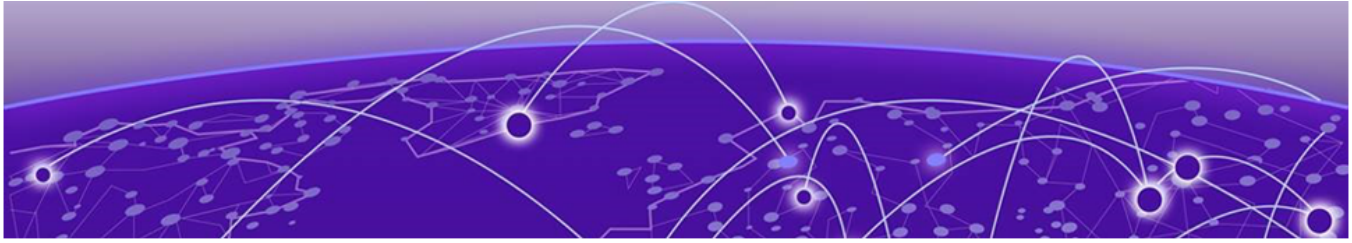
Info

Message Text

Shared-port `%esdP%` has checked off all its `%pri%` priority domain segments.

Message Parameters

Name	Type
esdP	SlotPort
pri	String



ECP Messages

ECP.DebugSummary on page 835
ECP.DebugVerbose on page 836
ECP.DebugData on page 836
ECP.ParmInv on page 837
ECP.ERROR on page 837
ECP.SMTrace on page 838
ECP.RxPkt on page 838
ECP.TxPkt on page 839
ECP.Warning on page 840

ECP.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ECP.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ECP.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ECP.ParmInv

Description

Error checking has determined that an invalid parameter has been passed to the function. Example errors are unexpected NULL pointers or parameters out of range. As a result, the action performed may not have worked as intended.

Remedy

There is no known remedy. Inform engineering. Provide as much information as possible including config file, log file, and a description of actions that were being performed when log message was seen.

Severity

Critical

Message Text

Invalid Parameter `%format%`

Message Parameters

Name	Type
format	Printf

ECP.ERROR

Description

Generic ECP error message. This is a temporary place holder, and must be replaced prior to code release.

Remedy

TBD

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ECP.SMTrace

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ECP.RxPkt

Description

Debug log to dump out received packet contents

Remedy

No action required - Informational message only

Severity

Debug-Data

Message Text

Incoming packet from port `%port%` with a length of `%len%` bytes

Message Parameters

Name	Type
port	SlotPort
ptr	Buf-ptr
len	Buf-len

ECP.TxPkt

Description

Debug log to dump out transmit packet contents

Remedy

No action required - Informational message only

Severity

Debug-Data

Message Text

Outging packet to port `%port%` with a length of `%len%` bytes

Message Parameters

Name	Type
port	SlotPort
ptr	Buf-ptr
len	Buf-len

ECP.Warning

Description

Generic ECP warning message. These should eventually be replaced with more concise logs.

Remedy

TBD

Severity

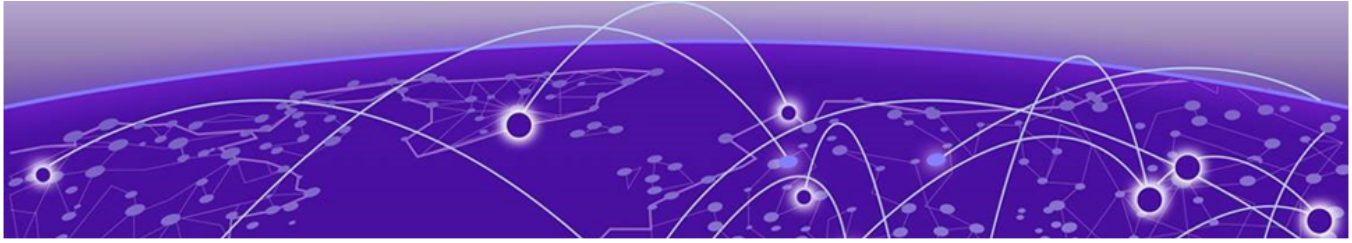
Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



EdgeAuto Messages

EdgeAuto.ParmNull on page 841
EdgeAuto.ParmInv on page 842
EdgeAuto.AllocMemFail on page 842
EdgeAuto.ParseMsgFail on page 843
EdgeAuto.DevMsgTrace on page 844
EdgeAuto.DBMsgTrace on page 844
EdgeAuto.DebugData on page 845
EdgeAuto.ConnDBFail on page 845
EdgeAuto.DebugVerbose on page 846
EdgeAuto.DebugSummary on page 847

EdgeAuto.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on the switch configuration using the 'show tech-support' command. Also, check the scalability limit in the user documentation and compare it with the current configuration using 'show configuration detail' command.

Severity

Critical

Message Text

Argument `%arg%` is NULL

Message Parameters

Name	Type
arg	String

EdgeAuto.ParmInv

Description

An internal function was called with an invalid value. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on the switch configuration using the 'show tech-support' command. Also, check the scalability limit in the user documentation and compare it with the current configuration using 'show configuration detail' command.

Severity

Critical

Message Text

Argument `%arg%` has an invalid value `%val%`

Message Parameters

Name	Type
arg	String
val	uInt32

EdgeAuto.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect operations.

Remedy

Check the scalability limit in the user documentation and compare it with the current configuration using 'show configuration detail' command. Once sufficient system

memory is reclaimed, it is recommended that edgeAuto process be restarted using 'restart process edgeauto' command for internal state to be fully rebuilt.

Severity

Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure of size `%size%`.

Message Parameters

Name	Type
obj	String
size	uInt32

EdgeAuto.ParseMsgFail

Description

Edge Automation was not able to successfully parse an internal message. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on the switch configuration using the 'show tech-support' command.

Severity

Critical

Message Text

Failed to parse message `%format%`

Message Parameters

Name	Type
format	Printf

EdgeAuto.DevMsgTrace

Description

This message is for debugging problems related to messages received by edgeauto that contain device information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EdgeAuto.DBMsgTrace

Description

This message is for debugging problems related to messages received by edgeauto that contain database information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EdgeAuto.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EdgeAuto.ConnDBFail

Description

Edge Automation was not able to connect to the database configured in netDbMgr. This can happen due to one or more of these conditions - DNS resolution failure, route lookup failure, a network connectivity issue, remote host being down, the remote database not accepting connections, authentication failure, improper communication of database state between netDbMgr and edgeauo.

Remedy

Check if the database is configured correctly on netDbMgr. Check the output of 'show automation edge database' and 'show database' to see if the database state is consistent across both these outputs. If the database states are inconsistent, disconnect edgeauto from database using the 'configure automation edge disconnect

database' command and reconnect edgeauto to the database using 'configure automation edge connect database' command. If the issue persists, try restarting netDbMgr and edgeauto.

Severity

Error

Message Text

Failed to connect to database: `%name%`

Message Parameters

Name	Type
name	String

EdgeAuto.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

EdgeAuto.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

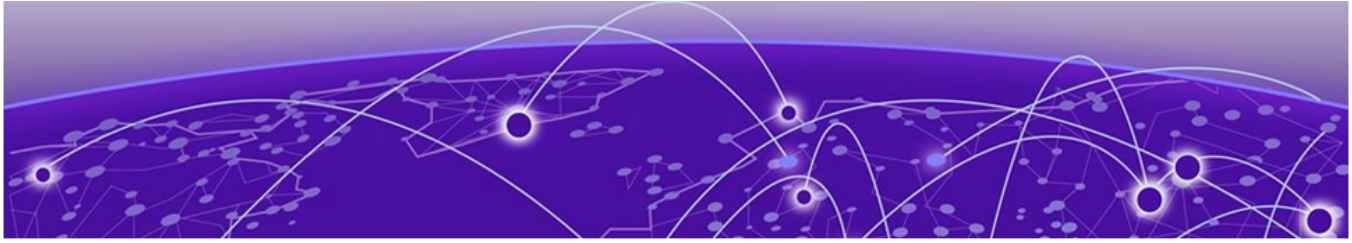
Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



EDP Messages

EDP.InitFail on page 849
EDP.Error on page 849
EDP.TxPDUFail on page 850
EDP.ProcFrameFail on page 850
EDP.SendVlanPDU on page 851
EDP.AddVLANOK on page 851
EDP.AddNbrOK on page 852
EDP.AgeOutNbr on page 853
EDP.AgeOutVLAN on page 853
EDP.RxFrameOK on page 854
EDP.TxPDUDump on page 855
EDP.ProcPDUDump on page 855
EDP.AddNbrFail on page 856
EDP.DebugSummary on page 857
EDP.ProcPDUVerInv on page 857
EDP.CreatPDUVerInv on page 858
EDP.ProcFrame on page 859
EDP.ProcPDULpbk on page 859
EDP.ProcPDUFail on page 860
EDP.RcvMsgFail on page 861
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EDP.PrcFrameFail on page 863
EDP.CreatPortOK on page 864
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EDP.NoEdpPort on page 865
EDP.SendSwitchPDU on page 866
EDP.CfgAdvInterval on page 866
EDP.CfgTimeout on page 867
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EDP.DisableEdp on page 868
EDP.AddNbrPortFail on page 869

EDP.Trace on page 869
EDP.PortVLANIdCfgMismatch on page 870

EDP.InitFail

Description

Initialization failed due to the reason specified.

Remedy

An unexpected internal condition occurred.

Severity

Critical

Message Text

Initialization failed, `%reason%`

Message Parameters

Name	Type
reason	Printf

EDP.Error

Description

A general EDP error occurred due to the specified reason.

Remedy

An unexpected internal condition occurred.

Severity

Error

Message Text

`%reason%`

Message Parameters

Name	Type
reason	Printf

EDP.TxPDUFail

Description

An EDP packet could not be sent due to an internal error.

Remedy

An unexpected internal condition occurred.

Severity

Error

Message Text

Failed to send PDU on `%slot%`:`%port%`: `%reason%`

Message Parameters

Name	Type
slot	Slot
port	Port
reason	Printf

EDP.ProcFrameFail

Description

An EDP packet was received but could not be processed cause of the specified reason.

Remedy

Packet receive errors may be due to result of incompatible version of EDP running on the remote switch, or hardware errors or some unexpected internal conditions.

Severity

Error

Message Text

PDU received on port `%slot%:%port%` could not be processed, `%reason%`

Message Parameters

Name	Type
slot	Slot
port	Port
reason	Printf

EDP.SendVlanPDU

Description

AN EDP VLAN info PDU is being created and will be sent on the specified port.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

Sending EDP VLAN info on port `%slot%:%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

EDP.AddVLANOK

Description

Information about a VLAN (this VLAN is on the remote switch) for which EDP has no information for has been received and added.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

Created new neighbor VLAN - `%vlanName%` (`%vid%`) from `%slot%:%port%-%devID0%:%devID1%:%devIDMac%`

Message Parameters

Name	Type
vlanName	String
vid	uInt
slot	Slot
port	Port
devID0	xInt
devID1	xInt
devIDMac	srcMAC

EDP.AddNbrOK

Description

Information about a neighbor for which EDP has no information for has been received and added.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

New neighbor `%slot%:%port%-%devID0%:%devID1%:%devIDMac%`

Message Parameters

Name	Type
slot	Slot
port	Port
devID0	xInt
devID1	xInt
devIDMac	srcMAC

EDP.AgeOutNbr

Description

The neighbor database entry for the EDP node with the specified deviceID has been aged out and removed from the EDP database.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

Age out neighbor `%slot%:%port%` - `%devID0%:%devID1%:%devIDMac%`

Message Parameters

Name	Type
slot	Slot
port	Port
devID0	xInt
devID1	xInt
devIDMac	srcMAC

EDP.AgeOutVLAN

Description

The database entry for the specified VLAN, provided by the EDP node with the specified deviceID has been aged out and removed from the EDP database.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

Age out `%vlanName%` (`%vid%`) from `%slot%:%port%-%devID0%:%devID1%:%devIDMac%`

Message Parameters

Name	Type
vlanName	String
vid	uInt
slot	Slot
port	Port
devID0	xInt
devID1	xInt
devIDMac	srcMAC

EDP.RxFrameOK

Description

An EDP packet has been received on the specified port.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

`%logMsg%`

Message Parameters

Name	Type
slot	Slot
port	Port
logMsg	Printf

EDP.TxPDUDump

Description

An EDP VLAN info PDU is being sent on the specified port. The contents of the PDU follows.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

*** EDP VLAN info (`%mbuflen%`, `%chksum%`, `%slot%:%port%`) *** `%pdu%`

Message Parameters

Name	Type
mbuflen	uInt
chksum	uInt
slot	Slot
port	Port
pdu	Buf-ptr
pdulen	Buf-len

EDP.ProcPDUDump

Description

An EDP packet was received. The contents of the PDU follows.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

*** EDP Packet Received *** `%pdu%`

Message Parameters

Name	Type
slot	Slot
port	Port
pdu	xInt8
pdulen	xInt8

EDP.AddNbrFail

Description

Information about a neighbor for which EDP has no information about has been received but could not be added due to lack of system resources. The reason specifies the exact resource.

Remedy

The system does not have enough resource to add a new EDP database entry.

Severity

Error

Message Text

Cannot add neighbor entry for `%slot%:%port%-%devID0%:%devID1%:%devIDMac%`, `%reason%`

Message Parameters

Name	Type
slot	Slot
port	Port
devID0	xInt8
devID1	xInt8
devIDMac	srcMAC
reason	Printf

EDP.DebugSummary

Description

This message is for generic debug purposes.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

EDP.ProcPDUVerInv

Description

An EDP info packet was received with an invalid software version from the specified EDP node.

Remedy

Ensure the EDP nodes are running same version of EDP.

Severity

Notice

Message Text

Received EDP packet from EDP node with an invalid software version `%major%.%subMajor%.%minor%`, device - `%devID0%:%devID1%:%devIDMac%` remote port - `%slot%:%port%`

Message Parameters

Name	Type
major	sInt
subMajor	sInt
minor	sInt
devID0	xInt8
devID1	xInt8
devIDMac	srcMAC
slot	Slot
port	Port

EDP.CreatPDUVerInv

Description

The system is creating an EDP packet with invalid software version

Remedy

An unexpected internal condition has occurred.

Severity

Notice

Message Text

Creating EDP packet with an invalid software version `%major%.%subMajor%.%minor%`

Message Parameters

Name	Type
major	sInt
subMajor	sInt
minor	sInt

EDP.ProcFrame

Description

An EDP packet has been received on the specified port and is about to be processed.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
slot	Slot
port	Port
logMsg	Printf

EDP.ProcPDULpbk

Description

An EDP packet has been received on the specified port.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

`%slot%:%port%-%logMsg%`

Message Parameters

Name	Type
slot	Slot
port	Port
logMsg	Printf

EDP.ProcPDUFail

Description

An EDP packet was received but could not be processed for the specified reason.

Remedy

Packet receive errors may be the result of incompatible versions of EDP running on separated switches, hardware error, or some other unexpected internal condition.

Severity

Error

Message Text

PDU received on port `%slot%:%port%` could not be processed, `%reason%`

Message Parameters

Name	Type
slot	Slot
port	Port
reason	Printf

EDP.RcvMsgFail

Description

The EDP packet could not be received cause of some unexpected internal condition.

Remedy

System resources may be overutilized. Contact Extreme.

Severity

Error

Message Text

`%logMsg%`

Message Parameters

Name	Type
logMsg	Printf

EDP.AddVLANFail

Description

Cannot create VLAN info entry for the above specified VLAN from the EDP neighbor cause of lack of systems resources. The exact reason is specified in the message.

Remedy

The system does not have enough resources.

Severity

Error

Message Text

Failed to add VLAN entry for `%vlanName%` (`%vid%`) for port `%slot%:%port%` - `%devID0%:%devID1%:%devIDMac%`, `%reason%`

Message Parameters

Name	Type
vlanName	String
vid	uInt
slot	Slot
port	Port
devID0	xInt
devID1	xInt
devIDMac	srcMAC
reason	Printf

EDP.CreatPortFail

Description

The system is short of memory resources and might hinder in the working of EDP.

Remedy

Contact Extreme

Severity

Error

Message Text

Cannot create EDP port instance for port `%slot%:%port%` due to lack of memory

Message Parameters

Name	Type
slot	Slot
port	Port

EDP.SendTImerFail

Description

The timer functionality needed to send out packets on the port regularly could not be created and hence packets cant be sent out this port.

Remedy

The system might be short of resources. Contact Extreme.

Severity

Warning

Message Text

Cannot send out packets on port `%slot%:%port%` due to inability to create send timer.

Message Parameters

Name	Type
slot	Slot
port	Port

EDP.PrcFrameFail

Description

An EDP packet received could not be processed due to the specified reason.

Remedy

Packet receive errors may be due to hardware errors or some other unexpected internal conditions.

Severity

Error

Message Text

Packet received on port `%slot%:%port%` could not be processed, `%reason%`

Message Parameters

Name	Type
slot	Slot
port	Port
reason	Printf

EDP.CreatPortOK

Description

The EDP port instance for the specified port has been created.

Remedy

This is for informational debug purposes only.

Severity

Debug-Summary

Message Text

Port instance `%slot%:%port%` has been created

Message Parameters

Name	Type
slot	Slot
port	Port

EDP.PortTimerFail

Description

The EDP port instance was created but the timer to send out the EDP PDUs on this port failed.

Remedy

Disable EDP on this port and enable EDP again. If this message continues to appear, the system might be short of resources. Contact Extreme.

Severity

Error

Message Text

Created port `%slot%:%port%`, but unable to send out EDP PDUs on this port due to failure in creating send timer.

Message Parameters

Name	Type
slot	Slot
port	Port

EDP.RemPort

Description

The EDP port instance for the specified port is being removed.

Remedy

This message is solely for informational debug purposes only

Severity

Debug-Summary

Message Text

Removing EDP port instance for port `%slot%:%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

EDP.NoEdpPort

Description

EDP packet has been received on a port which does not have a EDP instance. The packet will be dropped. This condition should never occur.

Remedy

Disable the port and enable it back. Contact extreme.

Severity

Error

Message Text

packet received on a port (`%slot%:%port%`) with no EDP instance.

Message Parameters

Name	Type
slot	Slot
port	Port

EDP.SendSwitchPDU

Description

Sending switch information packets out the specified port.

Remedy

This message is for informational debug purposes only.

Severity

Debug-Summary

Message Text

Sending switch information packets out port `%slot%:%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

EDP.CfgAdvInterval

Description

The EDP advertisement interval has been changed by the user to the specified value.

Remedy

This message is for informational debug purposes only.

Severity

Info

Message Text

EDP advertisement interval has been set to `%interval%` seconds.

Message Parameters

Name	Type
interval	uInt32

EDP.CfgTimeout

Description

The EDP neighbor and VLAN information hold timer (timeout) has been changed by the user to the specified value.

Remedy

This message is for informational/debug purposes only.

Severity

Info

Message Text

The EDP neighbor and VLAN timeout has been set to `%timeout%` seconds.

Message Parameters

Name	Type
timeout	uInt32

EDP.EnableEdp

Description

The user has enabled EDP on the specified port.

Remedy

This message is for informational debug purposes only.

Severity

Info

Message Text

EDP is enabled by the user on the port `%slot%:%port%`.

Message Parameters

Name	Type
slot	Slot
port	Port

EDP.DisableEdp

Description

The user has disabled EDP on the port specified.

Remedy

This message is for informational debug purposes only.

Severity

Info

Message Text

EDP has been disabled by the user on the port `%slot%:%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

EDP.AddNbrPortFail

Description

The port information from the neighbor specified by the deviceId was not copied because of lack of system resources as specified in the message.

Remedy

The system is running out of resources.

Severity

Error

Message Text

Failed to copy port information from neighbor `%deviceId1%:%deviceId2%:%deviceId%` on port `%slot%:%port%`, `%reason%`

Message Parameters

Name	Type
slot	Slot
port	Port
deviceId1	xInt8
deviceId2	xInt8
deviceId	srcMAC
reason	Printf

EDP.Trace

Description

Using this condition to trace EDP's code. Used for debugging purposes.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

EDP.PortVLANIdCfgMismatch

Description

One or more untagged ports are members of VLANs where the local and remote VLAN IDs are different. While not necessarily incorrect, this is known to be a common mis-configuration. The "show edp port all vlan-id mismatch untagged" command can be used to see which port(s) caused this event. This event will only be generated once for this node until a reboot or failover occurs.

Remedy

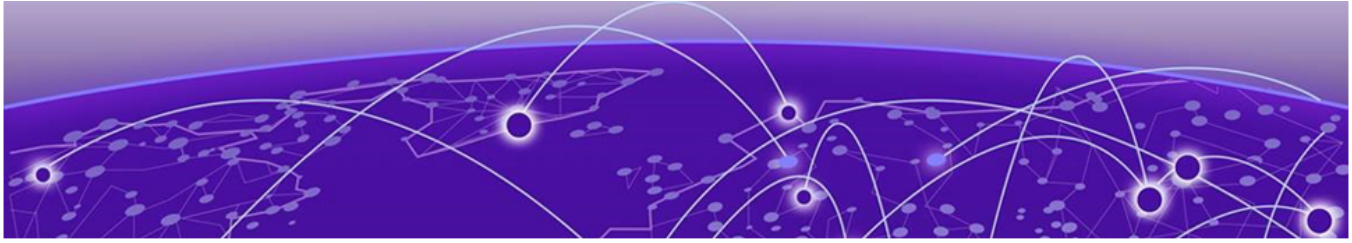
Correct the port/VLAN/VLAN ID configuration. If the configuration with different VLAN IDs is intentional, this event can be ignored or permanently hidden using the "configure log filter <filter> add exclude event EDP.PortVLANIdCfgMismatch" command.

Severity

Warning

Message Text

One or more untagged ports has been determined to have a VLAN configuration mismatch. Use the \"show edp port all vlan-id mismatch untagged\" command to see detailed information.



EDP.VSM Messages

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EDP.VSM.CreatISC on page 872
EDP.VSM.DelISC on page 873
EDP.VSM.AllocBufFail on page 873
EDP.VSM.AllocAppDataFail on page 874
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EDP.VSM.NtfyMLAGStateChg on page 875
EDP.VSM.GetLocMLAGPortInstcFail on page 876
EDP.VSM.MLAGPortInstcInv on page 876
EDP.VSM.GetLocMLAGPortStateFail on page 877
EDP.VSM.IgnCkptMsgUnkOwner on page 878
EDP.VSM.IgnCkptTLV on page 878
EDP.VSM.IgnPktUnkPortType on page 879
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EDP.VSM.MLAGStrtCkpt on page 880
EDP.VSM.StrtCkpt on page 880
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EDP.VSM.RxCkptMsg on page 882
EDP.VSM.RxEDPPkt on page 882
EDP.VSM.TxEDPPkt on page 883
EDP.VSM.IgnCkptMsgUnkVer on page 883
EDP.VSM.RxCDPPkt on page 884
EDP.VSM.TxCDPPkt on page 885

EDP.VSM.ClntInitFail

Description

Initialization of EDP with VSM module has failed. In such a case MLAG functionality with respect to dot1br extended ports will not function properly.

Remedy

This is a rare condition which may be related to software, and may require a reboot to correct the problem.

Severity

Error

Message Text

VSM client initialization failed, Error = `%err%`

Message Parameters

Name	Type
err	sInt

EDP.VSM.CreatISC

Description

This is a debug message indicating that an ISC is being created.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

Create ISC for index `%isc%`

Message Parameters

Name	Type
isc	uInt16

EDP.VSM.DelISC

Description

This is a debug message indicating that an ISC is being deleted.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

Deleting ISC for index `%isc%`

Message Parameters

Name	Type
isc	uInt16

EDP.VSM.AllocBufFail

Description

Allocation of checkpoint buffer has failed for the specified ISC (Inter Switch Connection connecting to an MLAG peer). In such a case MLAG functionality with respect to dot1br extended ports will not function properly.

Remedy

This is an internal condition related to software. Check abnormal memory utilization of any process using "show memory". You may need to scale down the configuration related to it.

Severity

Error

Message Text

Unable to allocate IPML buffer for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

EDP.VSM.AllocAppDataFail

Description

Allocation of application specific data buffer has failed for the specified ISC (Inter Switch Connection connecting to an MLAG peer). In such a case MLAG functionality with respect to dot1br extended ports will not function properly.

Remedy

This is an internal condition related to software. Check abnormal memory utilization of any process using "show memory". You may need to scale down the configuration related to it.

Severity

Error

Message Text

Unable to allocate ISC-specific global information for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

EDP.VSM.CreatCkptTxTimer

Description

This is a debug message indicating that a timer which is used for transmitting checkpoint messages is created. This message will appear when the first ISC is being created.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

Checkpoint Tx timer created

EDP.VSM.DelCkptTxTimer

Description

This is a debug message indicating that the timer used for transmitting checkpoint messages is deleted. This message will appear when the last ISC is being deleted.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

Checkpoint Tx timer deleted

EDP.VSM.NtfyMLAGStateChg

Description

This is a debug message indicating that parameters relating to an MLAG have changed.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

MLAG state change notification for index `%mlag%`, ISC `%isc%`, remote port state `%state%`

Message Parameters

Name	Type
mlag	uInt16
isc	uInt16
state	sInt

EDP.VSM.GetLocMLAGPortInstcFail

Description

This message indicates that an attempt to get the port instance value for an MLAG from VSM has failed.

Remedy

This is a rare condition which may be related to software, and may require a reboot to correct the problem.

Severity

Error

Message Text

Unable to get local port instance for MLAG `%mlag%`, Error = `%err%`

Message Parameters

Name	Type
mlag	uInt16
err	sInt

EDP.VSM.MLAGPortInstcInv

Description

This message indicates that the port instance value for the specified MLAG is invalid.

Remedy

This is a rare condition which may be related to software, and may require a reboot to correct the problem.

Severity

Error

Message Text

Invalid port instance for MLAG `%mlag%`

Message Parameters

Name	Type
mlag	uInt16

EDP.VSM.GetLocMLAGPortStateFail

Description

This message indicates that an attempt to get the local MLAG port state from VSM has failed.

Remedy

This is a rare condition which may be related to software, and may require a reboot to correct the problem.

Severity

Error

Message Text

Unable to get local port state for MLAG `%mlag%`, Error = `%err%`

Message Parameters

Name	Type
mlag	uInt16
err	sInt

EDP.VSM.IgnCkptMsgUnkOwner

Description

This message indicates that the received checkpoint message is being ignored since the owner field in the packet header is not valid.

Remedy

Ensure the EXOS versions on the M-LAG peers are compatible. One of the M-LAG may require an upgrade to a more recent version of EXOS.

Severity

Debug-Data

Message Text

Ignore checkpoint message, invalid owner role = `%role%`

Message Parameters

Name	Type
role	uInt8

EDP.VSM.IgnCkptTLV

Description

This is a debug message which indicates that a checkpoint message of unknown type is not being processed.

Remedy

No action required -- Information message only.

Severity

Debug-Verbose

Message Text

Ignore Checkpoint TLV, invalid type `%type%` on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
type	uInt16

EDP.VSM.IgnPktUnkPortType

Description

This is a debug message which indicates that a EDP packet of unknown porTtype is not being processed.

Remedy

No action required -- Information message only.

Severity

Debug-Verbose

Message Text

Ignore EDP packet, invalid portType `%type%` on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
type	uInt16

EDP.VSM.AllocCkptMsgFail

Description

This message indicates that an attempt to allocate a buffer to hold the checkpoint message has failed.

Remedy

This is an internal condition related to software. Check abnormal memory utilization of any process using "show memory". You may need to scale down the configuration related to it.

Severity

Error

Message Text

Failed to allocate checkpoint message buffer for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

EDP.VSM.MLAGStrtCkpt

Description

This is a debug message which indicates that bulk checkpoint has started for the specified MLAG.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Start Checkpoint for MLAG `%mlag%`, ISC `%isc%`

Message Parameters

Name	Type
mlag	uInt16
isc	uInt16

EDP.VSM.StrtCkpt

Description

This is a debug message which indicates that bulk checkpoint has started for the specified MLAG.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Start Checkpoint for `%port%`, ISC `%isc%`

Message Parameters

Name	Type
port	ingressSlotPort
isc	uInt16

EDP.VSM.TxCkptMsg

Description

This is a debug message which indicates a checkpoint message has been transmitted to an MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx checkpoint message `%len%` bytes on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16

EDP.VSM.RxCkptMsg

Description

This is a debug message which indicates a checkpoint message has been received from an MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Rx checkpoint message `%len%` bytes on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16

EDP.VSM.RxEDPPkt

Description

This is a debug message which indicates a EDP packet has been received from an MLAG peer.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Rx EDP packet `%len%` bytes for ISC `%isc%` INPORT `%port%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16
port	ingressSlotPort

EDP.VSM.TxEDPPkt

Description

This is a debug message which indicates a EDP packet has been transmitted to an MLAG peer.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Tx EDP packet `%len%` bytes for ISC `%isc%` INPORT `%port%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16
port	ingressSlotPort

EDP.VSM.IgnCkptMsgUnkVer

Description

This message indicates that the received checkpoint message is being ignored since the version is not compatible with the running version.

Remedy

Ensure the EXOS versions on the M-LAG peers are compatible. One of the M-LAG may require an upgrade to a more recent version of EXOS.

Severity

Debug-Data

Message Text

Ignore checkpoint message, unknown version `%rxVer%`, supported version `%ver%`

Message Parameters

Name	Type
rxVer	uInt16
ver	uInt16

EDP.VSM.RxCDPPkt

Description

This is a debug message which indicates a CDP packet has been received from an MLAG peer.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Rx CDP packet `%len%` bytes for ISC `%isc%` INPORT `%port%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16
port	ingressSlotPort

EDP.VSM.TxCDPPkt

Description

This is a debug message which indicates a CDP packet has been transmitted to an MLAG peer.

Remedy

No action required -- Information message only.

Severity

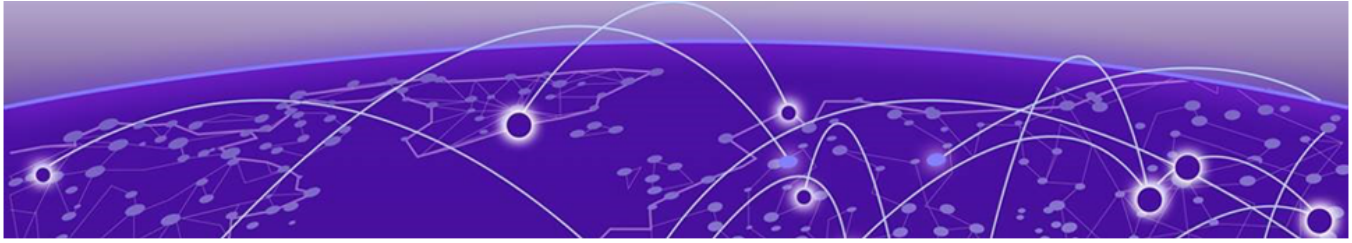
Debug-Data

Message Text

Tx CDP packet `%len%` bytes for ISC `%isc%` INPORT `%port%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16
port	ingressSlotPort



ELRP Messages

ELRP.DsblPortLoopDtect on page 886
ELRP.EnblPortTimerExp on page 886
ELRP.DebugSummary on page 887
ELRP.NotDsblPortLoopDtect on page 888

ELRP.DsblPortLoopDtect

Description

ELRP is disabling a port where a loop has been detected.

Remedy

Determine the cause of the loop and correct the situation.

Severity

Warning

Message Text

Disabling port `%port%`. `%durationMsg%`

Message Parameters

Name	Type
port	String
durationMsg	String

ELRP.EnblPortTimerExp

Description

ELRP is enabling a particular port because duration timer has expired.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

Enabling port `%port%`. `%duration%` second duration timer has expired.

Message Parameters

Name	Type
port	String
duration	uInt

ELRP.DebugSummary

Description

ELRP Debug message displayed when user wishes to view basic debug information.

Remedy

Debug level 1.

Severity

Debug-Summary

Message Text

`%logMsg%`

Message Parameters

Name	Type
logMsg	Printf

ELRP.NotDsblPortLoopDtect

Description

Detected loop on an exclude listed port and did not disable port.

Remedy

No action required - Notification message only.

Severity

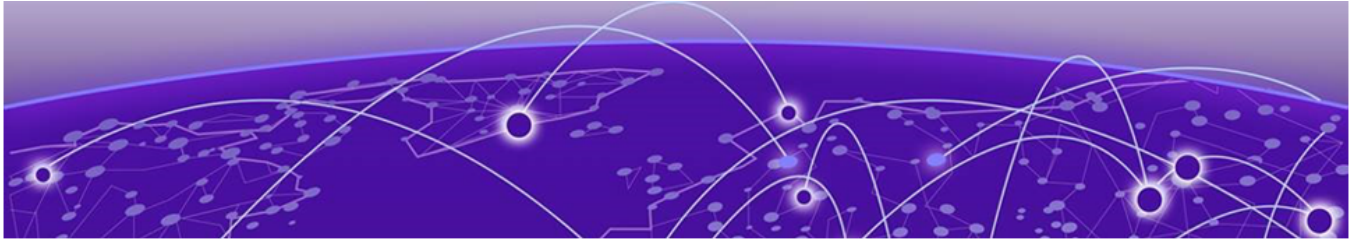
Notice

Message Text

Detect loop on `%portDescr%` port `%port%` which is an excluded port. ELRP took no action.

Message Parameters

Name	Type
port	String
portDescr	String



ELRP.Report Messages

ELRP.Report.Message on page 889
ELRP.Report.VLANAllState on page 890

ELRP.Report.Message

Description

Detailed description of the condition here.

Remedy

Optional remedy here.

Severity

Warning

Message Text

[`%client%:%vlan%:%serviceId%`] `%pollStatus%` : `%txPkts%` transmitted, `%rxPkts%` received, ingress slot:port (`%inLif%`) egress slot:port (`%outLif%`)

Message Parameters

Name	Type
client	String
vlan	String
serviceId	uInt32
pollStatus	String
txPkts	uInt32
rxPkts	uInt
inLif	String
outLif	String

ELRP.Report.VLANAllState

Description

When ELRP is run on all VLANs, this message indicates whether the loop discovery process has been "started, completed or cancelled" on all VLANs.

Remedy

No action required - Informational message only.

Severity

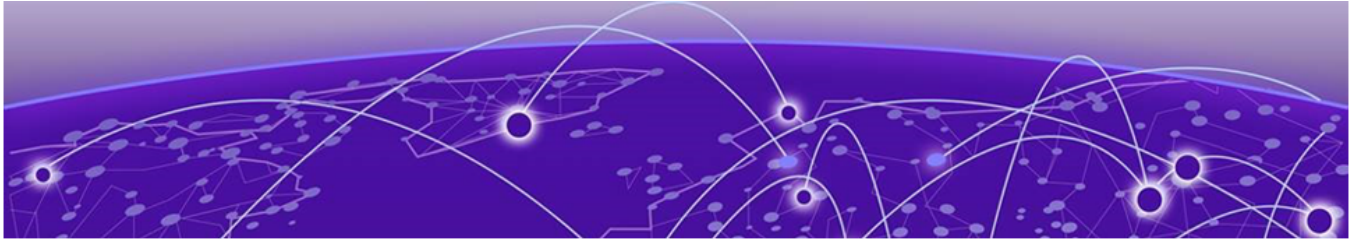
Info

Message Text

One-shot ELRP loop discovery has been `%state%` on all VLANs

Message Parameters

Name	Type
state	String



elsm Messages

elsm.portAdminEnabled on page 892
elsm.portAdminDisabled on page 893
elsm.cfgChange on page 893
elsm.helloPlusRx on page 894
elsm.helloMinusRx on page 894
elsm.helloMinusTx on page 895
elsm.helloPlusTx on page 895
elsm.chkpointSent on page 896
elsm.chkpointRecv on page 896
elsm.elsmEnabled on page 897
elsm.elsmDisabled on page 898
elsm.elsmStateChange on page 898
elsm.elsmTxStateChange on page 899
elsm.upTimerExp on page 899
elsm.downTimerExp on page 900
elsm.linkUpRecv on page 901
elsm.linkDownRecv on page 901
elsm.pifCreated on page 902
elsm.pifDeleted on page 903
elsm.holdThreshExceeded on page 903
elsm.holdThreshNotMet on page 904
elsm.stickyThreshExceeded on page 904
elsm.unknownPDURecv on page 905
elsm.invalidEventRecv on page 906
elsm.portInfoNotAlloc on page 906
elsm.portNodeNotFound on page 907
elsm.memAllocFailed on page 908
elsm.debugTrace on page 908
elsm.stateTrace on page 909
elsm.rxPdu on page 909
elsm.rxPduWarning on page 910
elsm.debugVerbose on page 910
elsm.verifyPduFailedWarning on page 911
elsm.verifyPduFailed on page 911

elsm.exPktFilterFailure on page 912
elsm.fdbError on page 912
elsm.socketError on page 913
elsm.txPduWarning on page 914
elsm.elsmPortNodeWarning on page 914
elsm.vlanError on page 915
elsm.vpifError on page 915
elsm.nullFunction on page 916
elsm.libInitError on page 916
elsm.initError on page 917
elsm.blockingPort on page 917
elsm.unblockingPort on page 918
elsm.configError on page 918
elsm.debugTimerTrace on page 919
elsm.debugSetIfState on page 919
elsm.debugSetIfStateBulk on page 920

elsm.portAdminEnabled

Description

Port was administratively enabled by the user.

Remedy

Informational only.

Severity

Info

Message Text

Port `%port%` was administratively enabled.

Message Parameters

Name	Type
port	SlotPort
vid	uInt8
vlanInstance	uInt

elsm.portAdminDisabled

Description

Port was administratively disabled by the user.

Remedy

Informational only.

Severity

Info

Message Text

Port `%port%` was administratively disabled.

Message Parameters

Name	Type
port	SlotPort

elsm.cfgChange

Description

User changed the config for a port

Remedy

Informational only

Severity

Debug-Verbose

Message Text

Configuration change for `%port%`. Param `%param%`.

Message Parameters

Name	Type
port	SlotPort
param	String

elsm.helloPlusRx

Description

Received a Hello+ packet on a port.

Remedy

Informational only

Severity

Debug-Verbose

Message Text

Received Hello+ on port `%port%`.

Message Parameters

Name	Type
port	SlotPort

elsm.helloMinusRx

Description

Received a Hello- packet on a port.

Remedy

Informational only

Severity

Debug-Verbose

Message Text

Received Hello- on port `%port%`.

Message Parameters

Name	Type
port	SlotPort

elsm.helloMinusTx

Description

Transmitted a Hello- packet on a port.

Remedy

Informational only

Severity

Debug-Verbose

Message Text

Transmitted Hello- on port `%port%`.

Message Parameters

Name	Type
port	SlotPort

elsm.helloPlusTx

Description

Transmitted a Hello+ packet on a port.

Remedy

Informational only

Severity

Debug-Verbose

Message Text

Transmitted Hello+ on port `%port%`.

Message Parameters

Name	Type
port	SlotPort

elsm.chkpointSent

Description

Checkpoint information sent to ELSM peer on Stdby MSM

Remedy

Informational

Severity

Debug-Data

Message Text

Checkpoint sent `%info%`

Message Parameters

Name	Type
info	Printf

elsm.chkpointRecv

Description

Checkpoint information received by ELSM peer on Stdby MSM

Remedy

Informational

Severity

Debug-Data

Message Text

Checkpoint received `%info%`

Message Parameters

Name	Type
info	Printf

elsm.elsmEnabled

Description

ELSM has been enabled on port.

Remedy

Informational

Severity

Info

Message Text

ELSM enabled on port `%port%`.

Message Parameters

Name	Type
port	SlotPort

elsm.elsmDisabled

Description

ELSM has been disabled on port.

Remedy

Informational

Severity

Info

Message Text

ELSM disabled on port `%port%`.

Message Parameters

Name	Type
port	SlotPort

elsm.elsmStateChange

Description

Trace info to display primary state machine state changes. States are UP, DOWN, DOWN-STUCK, and DOWN-WAIT.

Remedy

Informational

Severity

Debug-Summary

Message Text

ELSM state change on port `%port%`. Old state: `%oldState%` New state: `%newState%`

Message Parameters

Name	Type
port	SlotPort
oldState	String
newState	String

elsm.elsmTxStateChange

Description

Trace info to display transmit state machine state changes. States are Hello+, Hello-, CriticalEvent, Init

Remedy

Informational

Severity

Debug-Summary

Message Text

ELSM TX state change on port `%port%`. Old state: `%oldState%` New state: `%newState%`

Message Parameters

Name	Type
port	SlotPort
oldState	String
newState	String

elsm.upTimerExp

Description

The UP timer expired for a particular port. This indicates that the port DID NOT receive a HELLO in the configured time interval. Port will now transition to DOWN or DOWN-STUCK state. The port will be put into the blocked state and the applications will be notified to take corrective action.

Remedy

This indicates a problem with the peer or with the link. Check if the link is okay and whether the peer on the other end is responsive. If the link is good, the other switch may be have problems, or may have had ELSM misconfigured on it.

Severity

Debug-Summary

Message Text

UP Timer Expired for port `%port%`.

Message Parameters

Name	Type
port	SlotPort

elsm.downTimerExp

Description

The DOWN timer is started if a port in the DOWN state receives a Hello PDU. The port will transition from DOWN to DOWN-WAIT and start the DOWN timer. When the DOWN timer expires, ELSM checks to see how many HELLOs it has received. If the number of HELLOs received exceeds the DOWN threshold value, the port transitions from DOWN-WAIT to UP. This helps alleviate flapping between UP and DOWN states.

Remedy

No action is required. If the DOWN Timer is started and expires frequently it indicates a problem dropping HELLO PDUs. i.e. We see HELLOs, but the frequency of HELLOs is sporadic. Check to make sure there are no broadcast storms or other forms of congestion on the link. Check for anything that could prevent a regular reception of HELLO PDUs from the peer.

Severity

Debug-Summary

Message Text

DOWN Timer expired for port `%port%`.

Message Parameters

Name	Type
port	SlotPort

elsm.linkUpRecv

Description

ELSM received a Link-Up message from VLAN Mgr indicating a physical link-up was detected.

Remedy

No action is required. The ELSM state machine should continue to operate, and at some point unblock the port. Even the link-up is detected, ELSM will wait for reception of HELLOs before unblocking the port. When ELSM unblocks the port, the apps will be notified of the link-up and take appropriate action.

Severity

Debug-Summary

Message Text

`%func%` - Link-UP msg on port `%port%` received from VLAN Mgr.

Message Parameters

Name	Type
func	String
port	SlotPort

elsm.linkDownRecv

Description

ELSM received a Link-Down message from VLAN Mgr indicating a physical link-Down was detected.

Remedy

No action is required. The ELSM state machine should continue to operate, and at some point block the port. Even if the link-down is detected, ELSM will wait until its state machine times out on reception of HELLOs (which it will because the link is physically

down_. When ELSM blocks the port, the apps will be notified of the link-down and take appropriate action.

Severity

Debug-Summary

Message Text

`%func%` - Link-DOWN msg on port `%port%` received from VLAN Mgr.

Message Parameters

Name	Type
func	String
port	SlotPort

elsm.pifCreated

Description

Vlan Mgr has notified us that a PIF or physically port has been created. ELSM will create an ElsmPortNode for this PIF with default values. Each PIF in the system should have a corresponding ElsmPortNode in the ELSM process.

Remedy

No action required.

Severity

Debug-Summary

Message Text

PIF for port `%port%` Created

Message Parameters

Name	Type
port	SlotPort

elsm.pifDeleted

Description

Vlan Mgr has notified us that a PIF or physically port has been deleted. ELSM will delete the corresponding ElsmPortNode for this PIF.

Remedy

No action required.

Severity

Debug-Summary

Message Text

PIF for port `%port%` Deleted.

Message Parameters

Name	Type
port	SlotPort

elsm.holdThreshExceeded

Description

Number of HELLO PDUs received in DOWN-WAIT state exceeded the HoldThreshold so that it's okay to transition to UP state.

Remedy

Informational

Severity

Info

Message Text

Port `%port%` Hold Threshold of `%holdThresh%` exceeded.

Message Parameters

Name	Type
port	SlotPort
holdThresh	uInt

elsm.holdThreshNotMet

Description

ELSM did not received enough HELLO PDUs after the first one to transition out of DOWN-WAIT. Port will now go back to DOWN state.

Remedy

Check peer to see if it is reachable. Check to make sure there's no congestion or flooding on the line. ELSM saw a HELLO, bud

Severity

Info

Message Text

Port `%port%` - Hold Threshold NOT reached. Needed `%holdThresh%`, but only saw `%count%` HELLOs.

Message Parameters

Name	Type
port	SlotPort
holdThresh	uInt
count	uInt

elsm.stickyThreshExceeded

Description

When the sticky threshold is exceeded it means we've transitioned from UP to DOWN too many times. The port will now go into the DOWN-STUCK state and wait for user intervention. This prevents a port from flapping from UP to DOWN.

Remedy

A user can either enable auto-restart mode on this port, or manually do a clear auto-restart to transition the port into DOWN state. If neither of these are done, the port will remain in the DOWN-STUCK and blocked state untila an AdminUP/DOWN or ELSM disable/enable is performed.

Severity

Notice

Message Text

Port `%port%` - Sticky Threshold Exceeded of `%stickyThresh%`.

Message Parameters

Name	Type
port	SlotPort
stickyThresh	uInt

elsm.unknownPDURecv

Description

ELSM received an unknown or unrecognized PDU. This should never occur, but if it does, we simply drop the PDU. Receiving a large number of these messages is indicative of a problem at the lower layers.

Remedy

Check that the peer is running a compatible version of ELSM.

Severity

Warning

Message Text

Unknown PDU received on port `%port%`. `%typeInfo%`

Message Parameters

Name	Type
port	SlotPort
typeInfo	Printf

elsm.invalidEventRecv

Description

The state machine received an event that it normally should never receive. We just ignore the event, but this could be indicative of a problem with the state machine implementation for a scenario we did not account for.

Remedy

No action required.

Severity

Warning

Message Text

Port `%port%` - Received unsupported event `%event%` for state `%state%`.

Message Parameters

Name	Type
port	SlotPort
state	String
event	String

elsm.portInfoNotAlloc

Description

When a port is enabled we allocate memory for portInfo. If we encounter an elsmPortNode that is enabled, but no portInfo allocated, it may indicate a memory leak or memory corruption problem.

Remedy

No action required.

Severity

Warning

Message Text

Port `%port%` - Port Info was never allocated when enabled.

Message Parameters

Name	Type
port	SlotPort

elsm.portNodeNotFound

Description

There should be an elsmPortNode created for each PIF or port created in the system. If we search for a particular port and can't find the elsmPortNode in the ELSM Btree, but a PIF exists, then something went wrong. Either we inadvertently deleted teh node, or we missed the PIF creation message.

Remedy

Report this immediately.

Severity

Error

Message Text

Port `%port%` - Port Node not found.

Message Parameters

Name	Type
port	SlotPort

elsm.memAllocFailed

Description

We tried to allocate memory either for a elsmPortNode or for elsmPort and failed. We either ran out of memory, or serious memory corruption occured. In either case, we are in serious trouble.

Remedy

Restart system. Call TAC

Severity

Error

Message Text

`%func%` - Port `%port%` - failed to allocate memory.

Message Parameters

Name	Type
func	String
port	SlotPort

elsm.debugTrace

Description

Generic debug trace message for development purposes.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%comment%`

Message Parameters

Name	Type
comment	Printf

elsm.stateTrace

Description

Debug information to see when events are passed to the state machine for a given port.

Remedy

None

Severity

Debug-Summary

Message Text

`%state%` received event `%event%` for port `%port%`

Message Parameters

Name	Type
state	String
event	String
port	SlotPort

elsm.rxPdu

Description

Debug to show that we are receiving PDUs.

Remedy

None

Severity

Debug-Data

Message Text

Received PDU on port `%port%` vid:`%vid%` vlanInstance:`%vlanInstance%` size:`%size%` errno:`%err%`

Message Parameters

Name	Type
port	SlotPort
vid	uInt8
vlanInstance	uInt
size	uInt
err	uInt

elsm.rxPduWarning

Description

Warning message when there was a socket read failure.

Remedy

Although this shouldn't happen, it is not critical.

Severity

Warning

Message Text

`%info%`

Message Parameters

Name	Type
info	Printf

elsm.debugVerbose

Description

Verbose debug info

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

`%info%`

Message Parameters

Name	Type
info	Printf

elsm.verifyPduFailedWarning

Description

Warning message printed when invalid ELSM PDU is received.

Remedy

Check peer switch config. It may be sending corrupt PDUs to the ELSM DA MAC.

Severity

Warning

Message Text

Verify ELSM PDU failed. `%comment%`

Message Parameters

Name	Type
comment	Printf

elsm.verifyPduFailed

Description

General message indicating target port we received the invalid PDU on.

Remedy

Check peer switch and verify it is not sending bad PDUs to ELSM Destination MAC.

Severity

Warning

Message Text

Received invalid ELSM PDU on port `%port%`

Message Parameters

Name	Type
port	SlotPort

elsm.exPktFilterFailure

Description

Failed to configure ExPktFilter

Remedy

This is a system problem. No user rememdy is possible.

Severity

Error

Message Text

`%comment%`

Message Parameters

Name	Type
comment	Printf

elsm.fdbError

Description

There was an error configuring the FDB on the switch.

Remedy

No user remedy available.

Severity

Error

Message Text

Error configuring FDB `%comment%`

Message Parameters

Name	Type
comment	Printf

elsm.socketError

Description

An socket related error occured. Socket failures result is possibly not receiving ELSM PDUs.

Remedy

No use remedy is available.

Severity

Error

Message Text

`%comment%`

Message Parameters

Name	Type
comment	Printf

elsm.txPduWarning

Description

Problems sending hello PDU out.

Remedy

No user remedy available.

Severity

Warning

Message Text

Failed to send Hello PDU on port `%port%`

Message Parameters

Name	Type
port	SlotPort

elsm.elsmPortNodeWarning

Description

Problems operating on an elsmPortNode

Remedy

No user remedy available

Severity

Warning

Message Text

`%port% %info%`

Message Parameters

Name	Type
port	SlotPort
info	Printf

elsm.vlanError

Description

There was error processing a vlan.

Remedy

No remedy is available.

Severity

Error

Message Text

`%func%` Error operating on vlan `%vlanName%` `%info%`

Message Parameters

Name	Type
func	String
vlanName	String
info	Printf

elsm.vpifError

Description

Error operating on a VPIF

Remedy

No remedy is available.

Severity

Error

Message Text

`%info%`

Message Parameters

Name	Type
info	Printf

elsm.nullFunction

Description

A state machine callback function was NULL. It should have been initialized whenever we transition states.

Remedy

No remedy is available.

Severity

Error

Message Text

`%func%` - Function `%nullFunc%` was NULL for port `%port%`.

Message Parameters

Name	Type
func	String
nullFunc	String
port	SlotPort

elsm.libInitError

Description

Error initializing libraries.

Remedy

No remedy is available.

Severity

Error

Message Text

`%info%`

Message Parameters

Name	Type
info	Printf

elsm.initError

Description

Problems occured while initializing task.

Remedy

No remedy is available.

Severity

Error

Message Text

Initialization problems `%info%`

Message Parameters

Name	Type
info	Printf

elsm.blockingPort

Description

ELSM will block all traffic on the port except for ELSM PDUs.

Remedy

Informational

Severity

Notice

Message Text

Blocking traffic on port `%port%`

Message Parameters

Name	Type
port	SlotPort

elsm.unblockingPort

Description

ELSM will unblock all traffic on the port. If another protocol is registered, the port state of that protocol will be used to default the port. If no other protocol is registered, ELSM sets the port to the default forwarding state.

Remedy

Informational

Severity

Notice

Message Text

Unblocking traffic on port `%port%`

Message Parameters

Name	Type
port	SlotPort

elsm.configError

Description

An error occured during configuration. One or more ports may not have been configured.

Remedy

No remedy is available.

Severity

Warning

Message Text

Config error. `%msg%`

Message Parameters

Name	Type
msg	Printf

elsm.debugTimerTrace

Description

Debugging timer functions

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

elsm.debugSetIfState

Description

Generic debug trace message for development purposes.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%comment%
```

Message Parameters

Name	Type
comment	Printf

elsm.debugSetIfStateBulk

Description

Generic debug trace message for development purposes.

Remedy

No remedy is available.

Severity

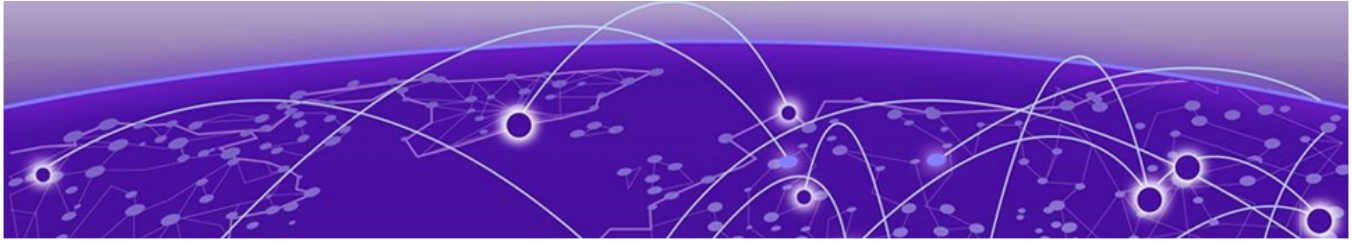
Debug-Summary

Message Text

```
%comment%
```

Message Parameters

Name	Type
comment	Printf



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ems.test.MsgCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

This is an EMS test message \n; msgID = `%msgID%`

Message Parameters

Name	Type
msgID	uInt

ems.test.UintCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

uint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt

ems.test.SintCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

sint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt
par2	sInt
par3	sInt

ems.test.XintCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

xint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt
par2	xInt
par3	xInt

ems.test.Xint8Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

xint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt8
par2	xInt8
par3	xInt8

ems.test.Xint16Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

xint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt16
par2	xInt16
par3	xInt16

ems.test.Xint32Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

xint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt32
par2	xInt32
par3	xInt32

ems.test.Xint64Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

xint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt64
par2	xInt64
par3	xInt64

ems.test.Sint64Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

sint64 `%par1%`, `%par2%`, `%par3%`,

Message Parameters

Name	Type
par1	sInt64
par2	sInt64
par3	sInt64

ems.test.Uint64Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

uint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt64
par2	uInt64
par3	uInt64

ems.test.StringCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

string `%par1%`

Message Parameters

Name	Type
par1	String

ems.test.CharCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

char `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`

Message Parameters

Name	Type
par1	Char
par2	Char
par3	Char
par4	Char
par5	Char
par6	Char
par7	Char
par8	Char

ems.test.BufferCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

buf ptr: `%par1%`, size: `%par2%`

Message Parameters

Name	Type
par1	Buf-ptr
par2	Buf-len

ems.test.SlotCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

(in|out)slot `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Slot
par2	ingressSlot
par3	egressSlot

ems.test.PortCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

(in|out)port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Port
par2	ingressPort
par3	egressPort

ems.test.MacCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

(src|dst)mac `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	MAC
par2	srcMAC
par3	dstMAC

ems.test.VlanCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

vlan `%par1%`

Message Parameters

Name	Type
par1	VLAN

ems.test.IPCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

(src|dst)ip `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IP
par2	srcIP
par3	dstIP

ems.test.IPMaskLCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

ipmask `%par1%`

Message Parameters

Name	Type
par1	IPmasklen

ems.test.IPMaskVCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

ipmaskval `%par1%` `%par2%` `%par3%`

Message Parameters

Name	Type
par1	IPmaskval
par2	IPmaskval
par3	IPmaskval

ems.test.L4PortCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

(src|dst)l4port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	L4port
par2	srcL4port
par3	dstL4port

ems.test.PtrCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

ptr `%par1%`

Message Parameters

Name	Type
par1	Ptr

ems.test.BGPPeerCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

peer `%peer%`

Message Parameters

Name	Type
peer	BGP-neighbor

ems.test.vtagCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

vlan-tag `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	VLAN-tag
par2	VLAN-tag
par3	VLAN-tag

ems.test.parmsCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

parms `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`, `%par9%`, `%par10%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt
par4	uInt
par5	uInt
par6	uInt
par7	uInt
par8	uInt
par9	uInt
par10	uInt

ems.test.slotPortCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

slotPort `%sp%`, `%ssp%`, `%dsp%`

Message Parameters

Name	Type
sp	SlotPort
ssp	ingressSlotPort
dsp	egressSlotPort

ems.test.BGPRouterCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

routerID `%routerID%`

Message Parameters

Name	Type
routerID	BGP-routerid

ems.test.EAPSCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

EAPS Domain `%domain%`

Message Parameters

Name	Type
domain	EAPS-domain

ems.test.Sint8Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

sint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt8
par2	sInt8
par3	sInt8

ems.test.Sint16Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

sint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt16
par2	sInt16
par3	sInt16

ems.test.Sint32Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

sint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt32
par2	sInt32
par3	sInt32

ems.test.Uint8Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

uint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt8
par2	uInt8
par3	uInt8

ems.test.Uint16Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

uint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt16
par2	uInt16
par3	uInt16

ems.test.Uint32Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

uint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt32
par2	uInt32
par3	uInt32

ems.test.MsgError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

This is an EMS test message \n; msgID = `%msgID%`

Message Parameters

Name	Type
msgID	uInt

ems.test.UintError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

uint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt

ems.test.SintError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

sint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt
par2	sInt
par3	sInt

ems.test.XintError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

xint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt
par2	xInt
par3	xInt

ems.test.Xint8Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

xint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt8
par2	xInt8
par3	xInt8

ems.test.Xint16Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

xint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt16
par2	xInt16
par3	xInt16

ems.test.Xint32Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

xint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt32
par2	xInt32
par3	xInt32

ems.test.Xint64Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

xint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt64
par2	xInt64
par3	xInt64

ems.test.Sint64Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

sint64 `%par1%`, `%par2%`, `%par3%`,

Message Parameters

Name	Type
par1	sInt64
par2	sInt64
par3	sInt64

ems.test.Uint64Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

uint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt64
par2	uInt64
par3	uInt64

ems.test.StringError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

string `%par1%`

Message Parameters

Name	Type
par1	String

ems.test.CharError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

char `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`

Message Parameters

Name	Type
par1	Char
par2	Char
par3	Char
par4	Char
par5	Char
par6	Char
par7	Char
par8	Char

ems.test.BufferError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

buf ptr: `%par1%`, size: `%par2%`

Message Parameters

Name	Type
par1	Buf-ptr
par2	Buf-len

ems.test.SlotError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

(in|out)slot `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Slot
par2	ingressSlot
par3	egressSlot

ems.test.PortError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

(in|out)port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Port
par2	ingressPort
par3	egressPort

ems.test.MacError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

(src|dst)mac `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	MAC
par2	srcMAC
par3	dstMAC

ems.test.VlanError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

vlan `%par1%`

Message Parameters

Name	Type
par1	VLAN

ems.test.IPError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

(src|dst)ip `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IP
par2	srcIP
par3	dstIP

ems.test.IPMaskLError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

ipmask `%par1%`

Message Parameters

Name	Type
par1	IPmasklen

ems.test.IPMaskVError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

ipmaskval `%par1%` `%par2%` `%par3%`

Message Parameters

Name	Type
par1	IPmaskval
par2	IPmaskval
par3	IPmaskval

ems.test.L4PortError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

(src|dst)l4port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	L4port
par2	srcL4port
par3	dstL4port

ems.test.PtrError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

ptr `%par1%`

Message Parameters

Name	Type
par1	Ptr

ems.test.BGPPeerError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

peer `%peer%`

Message Parameters

Name	Type
peer	BGP-neighbor

ems.test.vtagError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

vlan-tag `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	VLAN-tag
par2	VLAN-tag
par3	VLAN-tag

ems.test.parmsError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

parms `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`, `%par9%`, `%par10%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt
par4	uInt
par5	uInt
par6	uInt
par7	uInt
par8	uInt
par9	uInt
par10	uInt

ems.test.slotPortError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

slotPort `%sp%`, `%ssp%`, `%dsp%`

Message Parameters

Name	Type
sp	SlotPort
ssp	ingressSlotPort
dsp	egressSlotPort

ems.test.BGPRouterError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

routerID `%routerID%`

Message Parameters

Name	Type
routerID	BGP-routerid

ems.test.EAPSError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

EAPS Domain `%domain%`

Message Parameters

Name	Type
domain	EAPS-domain

ems.test.Sint8Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

sint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt8
par2	sInt8
par3	sInt8

ems.test.Sint16Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

sint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt16
par2	sInt16
par3	sInt16

ems.test.Sint32Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

sint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt32
par2	sInt32
par3	sInt32

ems.test.Uint8Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

uint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt8
par2	uInt8
par3	uInt8

ems.test.Uint16Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

uint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt16
par2	uInt16
par3	uInt16

ems.test.Uint32Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

uint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt32
par2	uInt32
par3	uInt32

ems.test.MsgWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

This is an EMS test message \n; msgID = `%msgID%`

Message Parameters

Name	Type
msgID	uInt

ems.test.UintWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

uint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt

ems.test.SintWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

sint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt
par2	sInt
par3	sInt

ems.test.XintWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

xint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt
par2	xInt
par3	xInt

ems.test.Xint8Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

xint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt8
par2	xInt8
par3	xInt8

ems.test.Xint16Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

xint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt16
par2	xInt16
par3	xInt16

ems.test.Xint32Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

xint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt32
par2	xInt32
par3	xInt32

ems.test.Xint64Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

xint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt64
par2	xInt64
par3	xInt64

ems.test.Sint64Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

sint64 `%par1%`, `%par2%`, `%par3%`,

Message Parameters

Name	Type
par1	sInt64
par2	sInt64
par3	sInt64

ems.test.Uint64Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

uint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt64
par2	uInt64
par3	uInt64

ems.test.StringWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

string `%par1%`

Message Parameters

Name	Type
par1	String

ems.test.CharWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

char `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`

Message Parameters

Name	Type
par1	Char
par2	Char
par3	Char
par4	Char
par5	Char
par6	Char
par7	Char
par8	Char

ems.test.BufferWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

buf ptr: `%par1%`, size: `%par2%`

Message Parameters

Name	Type
par1	Buf-ptr
par2	Buf-len

ems.test.SlotWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

(in|out)slot `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Slot
par2	ingressSlot
par3	egressSlot

ems.test.PortWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

(in|out)port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Port
par2	ingressPort
par3	egressPort

ems.test.MacWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

(src|dst)mac `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	MAC
par2	srcMAC
par3	dstMAC

ems.test.VlanWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

vlan `%par1%`

Message Parameters

Name	Type
par1	VLAN

ems.test.IPWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

(src|dst)ip `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IP
par2	srcIP
par3	dstIP

ems.test.IPMaskLWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

ipmask `%par1%`

Message Parameters

Name	Type
par1	IPmasklen

ems.test.IPMaskVWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

ipmaskval `%par1%` `%par2%` `%par3%`

Message Parameters

Name	Type
par1	IPmaskval
par2	IPmaskval
par3	IPmaskval

ems.test.L4PortWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

(src|dst)l4port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	L4port
par2	srcL4port
par3	dstL4port

ems.test.PtrWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

ptr `%par1%`

Message Parameters

Name	Type
par1	Ptr

ems.test.BGPPeerWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

peer `%peer%`

Message Parameters

Name	Type
peer	BGP-neighbor

ems.test.vtagWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

vlan-tag `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	VLAN-tag
par2	VLAN-tag
par3	VLAN-tag

ems.test.parmsWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

parms `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`, `%par9%`, `%par10%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt
par4	uInt
par5	uInt
par6	uInt
par7	uInt
par8	uInt
par9	uInt
par10	uInt

ems.test.slotPortWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

slotPort `%sp%`, `%ssp%`, `%dsp%`

Message Parameters

Name	Type
sp	SlotPort
ssp	ingressSlotPort
dsp	egressSlotPort

ems.test.BGPRouterWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

routerID `%routerID%`

Message Parameters

Name	Type
routerID	BGP-routerid

ems.test.EAPSWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

EAPS Domain `%domain%`

Message Parameters

Name	Type
domain	EAPS-domain

ems.test.Sint8Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

sint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt8
par2	sInt8
par3	sInt8

ems.test.Sint16Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

sint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt16
par2	sInt16
par3	sInt16

ems.test.Sint32Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

sint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt32
par2	sInt32
par3	sInt32

ems.test.Uint8Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

uint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt8
par2	uInt8
par3	uInt8

ems.test.Uint16Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

uint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt16
par2	uInt16
par3	uInt16

ems.test.Uint32Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

uint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt32
par2	uInt32
par3	uInt32

ems.test.MsgNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

This is an EMS test message \n; msgID = `%msgID%`

Message Parameters

Name	Type
msgID	uInt

ems.test.UintNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

uint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt

ems.test.SintNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

sint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt
par2	sInt
par3	sInt

ems.test.XintNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

xint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt
par2	xInt
par3	xInt

ems.test.Xint8Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

xint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt8
par2	xInt8
par3	xInt8

ems.test.Xint16Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

xint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt16
par2	xInt16
par3	xInt16

ems.test.Xint32Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

xint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt32
par2	xInt32
par3	xInt32

ems.test.Xint64Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

xint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt64
par2	xInt64
par3	xInt64

ems.test.Sint64Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

sint64 `%par1%`, `%par2%`, `%par3%`,

Message Parameters

Name	Type
par1	sInt64
par2	sInt64
par3	sInt64

ems.test.Uint64Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

uint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt64
par2	uInt64
par3	uInt64

ems.test.StringNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

string `%par1%`

Message Parameters

Name	Type
par1	String

ems.test.CharNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

char `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`

Message Parameters

Name	Type
par1	Char
par2	Char
par3	Char
par4	Char
par5	Char
par6	Char
par7	Char
par8	Char

ems.test.BufferNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

buf ptr: `%par1%`, size: `%par2%`

Message Parameters

Name	Type
par1	Buf-ptr
par2	Buf-len

ems.test.SlotNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

(in|out)slot `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Slot
par2	ingressSlot
par3	egressSlot

ems.test.PortNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

(in|out)port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Port
par2	ingressPort
par3	egressPort

ems.test.MacNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

(src|dst)mac `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	MAC
par2	srcMAC
par3	dstMAC

ems.test.VlanNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

vlan `%par1%`

Message Parameters

Name	Type
par1	VLAN

ems.test.IPNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

(src|dst)ip `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IP
par2	srcIP
par3	dstIP

ems.test.IPMaskLNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

ipmask `%par1%`

Message Parameters

Name	Type
par1	IPmasklen

ems.test.IPMaskVNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

ipmaskval `%par1%` `%par2%` `%par3%`

Message Parameters

Name	Type
par1	IPmaskval
par2	IPmaskval
par3	IPmaskval

ems.test.L4PortNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

(src|dst)l4port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	L4port
par2	srcL4port
par3	dstL4port

ems.test.PtrNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

ptr `%par1%`

Message Parameters

Name	Type
par1	Ptr

ems.test.BGPPeerNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

peer `%peer%`

Message Parameters

Name	Type
peer	BGP-neighbor

ems.test.vtagNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

vlan-tag `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	VLAN-tag
par2	VLAN-tag
par3	VLAN-tag

ems.test.parmsNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

parms `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`, `%par9%`, `%par10%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt
par4	uInt
par5	uInt
par6	uInt
par7	uInt
par8	uInt
par9	uInt
par10	uInt

ems.test.slotPortNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

slotPort `%sp%`, `%ssp%`, `%dsp%`

Message Parameters

Name	Type
sp	SlotPort
ssp	ingressSlotPort
dsp	egressSlotPort

ems.test.BGPRouterNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

routerID `%routerID%`

Message Parameters

Name	Type
routerID	BGP-routerid

ems.test.EAPSNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

EAPS Domain `%domain%`

Message Parameters

Name	Type
domain	EAPS-domain

ems.test.Sint8Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

sint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt8
par2	sInt8
par3	sInt8

ems.test.Sint16Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

sint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt16
par2	sInt16
par3	sInt16

ems.test.Sint32Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

sint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt32
par2	sInt32
par3	sInt32

ems.test.Uint8Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

uint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt8
par2	uInt8
par3	uInt8

ems.test.Uint16Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

uint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt16
par2	uInt16
par3	uInt16

ems.test.Uint32Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

uint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt32
par2	uInt32
par3	uInt32

ems.test.MsgInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

This is an EMS test message \n; msgID = `%msgID%`

Message Parameters

Name	Type
msgID	uInt

ems.test.UintInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

uint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt

ems.test.SintInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

sint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt
par2	sInt
par3	sInt

ems.test.XintInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

xint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt
par2	xInt
par3	xInt

ems.test.Xint8Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

xint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt8
par2	xInt8
par3	xInt8

ems.test.Xint16Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

xint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt16
par2	xInt16
par3	xInt16

ems.test.Xint32Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

xint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt32
par2	xInt32
par3	xInt32

ems.test.Xint64Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

xint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt64
par2	xInt64
par3	xInt64

ems.test.Sint64Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

sint64 `%par1%`, `%par2%`, `%par3%`,

Message Parameters

Name	Type
par1	sInt64
par2	sInt64
par3	sInt64

ems.test.Uint64Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

uint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt64
par2	uInt64
par3	uInt64

ems.test.StringInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

string `%par1%`

Message Parameters

Name	Type
par1	String

ems.test.CharInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

char `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`

Message Parameters

Name	Type
par1	Char
par2	Char
par3	Char
par4	Char
par5	Char
par6	Char
par7	Char
par8	Char

ems.test.BufferInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

buf ptr: `%par1%`, size: `%par2%`

Message Parameters

Name	Type
par1	Buf-ptr
par2	Buf-len

ems.test.SlotInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

(in|out)slot `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Slot
par2	ingressSlot
par3	egressSlot

ems.test.PortInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

(in|out)port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Port
par2	ingressPort
par3	egressPort

ems.test.MacInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

(src|dst)mac `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	MAC
par2	srcMAC
par3	dstMAC

ems.test.VlanInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

vlan `%par1%`

Message Parameters

Name	Type
par1	VLAN

ems.test.IPInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

(src|dst)ip `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IP
par2	srcIP
par3	dstIP

ems.test.IPMaskLInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

ipmask `%par1%`

Message Parameters

Name	Type
par1	IPmasklen

ems.test.IPMaskVInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

ipmaskval `%par1%` `%par2%` `%par3%`

Message Parameters

Name	Type
par1	IPmaskval
par2	IPmaskval
par3	IPmaskval

ems.test.L4PortInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

(src|dst)l4port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	L4port
par2	srcL4port
par3	dstL4port

ems.test.PtrInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

ptr `%par1%`

Message Parameters

Name	Type
par1	Ptr

ems.test.BGPPeerInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

peer `%peer%`

Message Parameters

Name	Type
peer	BGP-neighbor

ems.test.vtagInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

vlan-tag `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	VLAN-tag
par2	VLAN-tag
par3	VLAN-tag

ems.test.parmsInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

parms `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`, `%par9%`, `%par10%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt
par4	uInt
par5	uInt
par6	uInt
par7	uInt
par8	uInt
par9	uInt
par10	uInt

ems.test.slotPortInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

slotPort `%sp%`, `%ssp%`, `%dsp%`

Message Parameters

Name	Type
sp	SlotPort
ssp	ingressSlotPort
dsp	egressSlotPort

ems.test.BGPRouterInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

routerID `%routerID%`

Message Parameters

Name	Type
routerID	BGP-routerid

ems.test.EAPSInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

EAPS Domain `%domain%`

Message Parameters

Name	Type
domain	EAPS-domain

ems.test.Sint8Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

sint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt8
par2	sInt8
par3	sInt8

ems.test.Sint16Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

sint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt16
par2	sInt16
par3	sInt16

ems.test.Sint32Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

sint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt32
par2	sInt32
par3	sInt32

ems.test.Uint8Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

uint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt8
par2	uInt8
par3	uInt8

ems.test.Uint16Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

uint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt16
par2	uInt16
par3	uInt16

ems.test.Uint32Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

uint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt32
par2	uInt32
par3	uInt32

ems.test.MsgDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

This is an EMS test message \n; msgID = `%msgID%`

Message Parameters

Name	Type
msgID	uInt

ems.test.UintDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

uint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt

ems.test.SintDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

sint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt
par2	sInt
par3	sInt

ems.test.XintDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

xint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt
par2	xInt
par3	xInt

ems.test.Xint8DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

xint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt8
par2	xInt8
par3	xInt8

ems.test.Xint16DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

xint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt16
par2	xInt16
par3	xInt16

ems.test.Xint32DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

xint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt32
par2	xInt32
par3	xInt32

ems.test.Xint64DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

xint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt64
par2	xInt64
par3	xInt64

ems.test.Sint64DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

sint64 `%par1%`, `%par2%`, `%par3%`,

Message Parameters

Name	Type
par1	sInt64
par2	sInt64
par3	sInt64

ems.test.Uint64DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

uint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt64
par2	uInt64
par3	uInt64

ems.test.StringDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

string `%par1%`

Message Parameters

Name	Type
par1	String

ems.test.CharDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

char `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`

Message Parameters

Name	Type
par1	Char
par2	Char
par3	Char
par4	Char
par5	Char
par6	Char
par7	Char
par8	Char

ems.test.BufferDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

buf ptr: `%par1%`, size: `%par2%`

Message Parameters

Name	Type
par1	Buf-ptr
par2	Buf-len

ems.test.SlotDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

(in|out)slot `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Slot
par2	ingressSlot
par3	egressSlot

ems.test.PortDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

(in|out)port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Port
par2	ingressPort
par3	egressPort

ems.test.MacDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

(src|dst)mac `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	MAC
par2	srcMAC
par3	dstMAC

ems.test.VlanDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

vlan `%par1%`

Message Parameters

Name	Type
par1	VLAN

ems.test.IPDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

(src|dst)ip `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IP
par2	srcIP
par3	dstIP

ems.test.IPMaskLDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

ipmask `%par1%`

Message Parameters

Name	Type
par1	IPmasklen

ems.test.IPMaskVDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

ipmaskval `%par1%` `%par2%` `%par3%`

Message Parameters

Name	Type
par1	IPmaskval
par2	IPmaskval
par3	IPmaskval

ems.test.L4PortDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

(src|dst)l4port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	L4port
par2	srcL4port
par3	dstL4port

ems.test.PtrDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

ptr `%par1%`

Message Parameters

Name	Type
par1	Ptr

ems.test.BGPPeerDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

peer `%peer%`

Message Parameters

Name	Type
peer	BGP-neighbor

ems.test.vtagDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

vlan-tag `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	VLAN-tag
par2	VLAN-tag
par3	VLAN-tag

ems.test.parmsDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

parms `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`, `%par9%`, `%par10%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt
par4	uInt
par5	uInt
par6	uInt
par7	uInt
par8	uInt
par9	uInt
par10	uInt

ems.test.slotPortDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

slotPort `%sp%`, `%ssp%`, `%dsp%`

Message Parameters

Name	Type
sp	SlotPort
ssp	ingressSlotPort
dsp	egressSlotPort

ems.test.BGPRouterDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

routerID `%routerID%`

Message Parameters

Name	Type
routerID	BGP-routerid

ems.test.EAPSDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

EAPS Domain `%domain%`

Message Parameters

Name	Type
domain	EAPS-domain

ems.test.Sint8DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

sint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt8
par2	sInt8
par3	sInt8

ems.test.Sint16DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

sint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt16
par2	sInt16
par3	sInt16

ems.test.Sint32DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

sint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt32
par2	sInt32
par3	sInt32

ems.test.Uint8DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

uint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt8
par2	uInt8
par3	uInt8

ems.test.Uint16DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

uint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt16
par2	uInt16
par3	uInt16

ems.test.Uint32DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

uint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt32
par2	uInt32
par3	uInt32

ems.test.MsgDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

This is an EMS test message \n; msgID = `%msgID%`

Message Parameters

Name	Type
msgID	uInt

ems.test.UintDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

uint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt

ems.test.SintDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

sint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt
par2	sInt
par3	sInt

ems.test.XintDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

xint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt
par2	xInt
par3	xInt

ems.test.Xint8DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

xint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt8
par2	xInt8
par3	xInt8

ems.test.Xint16DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

xint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt16
par2	xInt16
par3	xInt16

ems.test.Xint32DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

xint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt32
par2	xInt32
par3	xInt32

ems.test.Xint64DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

xint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt64
par2	xInt64
par3	xInt64

ems.test.Sint64DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

sint64 `%par1%`, `%par2%`, `%par3%`,

Message Parameters

Name	Type
par1	sInt64
par2	sInt64
par3	sInt64

ems.test.Uint64DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

uint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt64
par2	uInt64
par3	uInt64

ems.test.StringDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

string `%par1%`

Message Parameters

Name	Type
par1	String

ems.test.CharDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

char `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`

Message Parameters

Name	Type
par1	Char
par2	Char
par3	Char
par4	Char
par5	Char
par6	Char
par7	Char
par8	Char

ems.test.BufferDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

buf ptr: `%par1%`, size: `%par2%`

Message Parameters

Name	Type
par1	Buf-ptr
par2	Buf-len

ems.test.SlotDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

(in|out)slot `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Slot
par2	ingressSlot
par3	egressSlot

ems.test.PortDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

(in|out)port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Port
par2	ingressPort
par3	egressPort

ems.test.MacDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

(src|dst)mac `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	MAC
par2	srcMAC
par3	dstMAC

ems.test.VlanDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

vlan `%par1%`

Message Parameters

Name	Type
par1	VLAN

ems.test.IPDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

(src|dst)ip `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IP
par2	srcIP
par3	dstIP

ems.test.IPMaskLDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

ipmask `%par1%`

Message Parameters

Name	Type
par1	IPmasklen

ems.test.IPMaskVDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

ipmaskval `%par1%` `%par2%` `%par3%`

Message Parameters

Name	Type
par1	IPmaskval
par2	IPmaskval
par3	IPmaskval

ems.test.L4PortDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

(src|dst)l4port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	L4port
par2	srcL4port
par3	dstL4port

ems.test.PtrDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

ptr `%par1%`

Message Parameters

Name	Type
par1	Ptr

ems.test.BGPPeerDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

peer `%peer%`

Message Parameters

Name	Type
peer	BGP-neighbor

ems.test.vtagDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

vlan-tag `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	VLAN-tag
par2	VLAN-tag
par3	VLAN-tag

ems.test.parmsDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

parms `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`, `%par9%`, `%par10%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt
par4	uInt
par5	uInt
par6	uInt
par7	uInt
par8	uInt
par9	uInt
par10	uInt

ems.test.slotPortDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

slotPort `%sp%`, `%ssp%`, `%dsp%`

Message Parameters

Name	Type
sp	SlotPort
ssp	ingressSlotPort
dsp	egressSlotPort

ems.test.BGPRouterDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

routerID `%routerID%`

Message Parameters

Name	Type
routerID	BGP-routerid

ems.test.EAPSDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

EAPS Domain `%domain%`

Message Parameters

Name	Type
domain	EAPS-domain

ems.test.Sint8DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

sint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt8
par2	sInt8
par3	sInt8

ems.test.Sint16DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

sint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt16
par2	sInt16
par3	sInt16

ems.test.Sint32DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

sint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt32
par2	sInt32
par3	sInt32

ems.test.Uint8DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

uint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt8
par2	uInt8
par3	uInt8

ems.test.Uint16DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

uint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt16
par2	uInt16
par3	uInt16

ems.test.Uint32DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

uint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt32
par2	uInt32
par3	uInt32

ems.test.MsgDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

This is an EMS test message \n; msgID = `%msgID%`

Message Parameters

Name	Type
msgID	uInt

ems.test.UintDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

uint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt

ems.test.SintDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

sint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt
par2	sInt
par3	sInt

ems.test.XintDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

xint `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt
par2	xInt
par3	xInt

ems.test.Xint8DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

xint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt8
par2	xInt8
par3	xInt8

ems.test.Xint16DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

xint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt16
par2	xInt16
par3	xInt16

ems.test.Xint32DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

xint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt32
par2	xInt32
par3	xInt32

ems.test.Xint64DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

xint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	xInt64
par2	xInt64
par3	xInt64

ems.test.Sint64DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

sint64 `%par1%`, `%par2%`, `%par3%`,

Message Parameters

Name	Type
par1	sInt64
par2	sInt64
par3	sInt64

ems.test.Uint64DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

uint64 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt64
par2	uInt64
par3	uInt64

ems.test.StringDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

string `%par1%`

Message Parameters

Name	Type
par1	String

ems.test.CharDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

char `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`

Message Parameters

Name	Type
par1	Char
par2	Char
par3	Char
par4	Char
par5	Char
par6	Char
par7	Char
par8	Char

ems.test.BufferDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

buf ptr: `%par1%`, size: `%par2%`

Message Parameters

Name	Type
par1	Buf-ptr
par2	Buf-len

ems.test.SlotDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

(in|out)slot `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Slot
par2	ingressSlot
par3	egressSlot

ems.test.PortDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

(in|out)port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	Port
par2	ingressPort
par3	egressPort

ems.test.MacDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

(src|dst)mac `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	MAC
par2	srcMAC
par3	dstMAC

ems.test.VlanDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

vlan `%par1%`

Message Parameters

Name	Type
par1	VLAN

ems.test.IPDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

(src|dst)ip `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IP
par2	srcIP
par3	dstIP

ems.test.IPMaskLDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

ipmask `%par1%`

Message Parameters

Name	Type
par1	IPmasklen

ems.test.IPMaskVDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

ipmaskval `%par1%` `%par2%` `%par3%`

Message Parameters

Name	Type
par1	IPmaskval
par2	IPmaskval
par3	IPmaskval

ems.test.L4PortDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

(src|dst)l4port `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	L4port
par2	srcL4port
par3	dstL4port

ems.test.PtrDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

ptr `%par1%`

Message Parameters

Name	Type
par1	Ptr

ems.test.BGPPeerDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

peer `%peer%`

Message Parameters

Name	Type
peer	BGP-neighbor

ems.test.vtagDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

vlan-tag `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	VLAN-tag
par2	VLAN-tag
par3	VLAN-tag

ems.test.parmsDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

parms `%par1%`, `%par2%`, `%par3%`, `%par4%`, `%par5%`, `%par6%`, `%par7%`, `%par8%`, `%par9%`, `%par10%`

Message Parameters

Name	Type
par1	uInt
par2	uInt
par3	uInt
par4	uInt
par5	uInt
par6	uInt
par7	uInt
par8	uInt
par9	uInt
par10	uInt

ems.test.slotPortDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

slotPort `%sp%`, `%ssp%`, `%dsp%`

Message Parameters

Name	Type
sp	SlotPort
ssp	ingressSlotPort
dsp	egressSlotPort

ems.test.BGPRouterDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

routerID `%routerID%`

Message Parameters

Name	Type
routerID	BGP-routerid

ems.test.EAPSDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

EAPS Domain `%domain%`

Message Parameters

Name	Type
domain	EAPS-domain

ems.test.Sint8DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

sint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt8
par2	sInt8
par3	sInt8

ems.test.Sint16DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

sint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt16
par2	sInt16
par3	sInt16

ems.test.Sint32DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

sint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	sInt32
par2	sInt32
par3	sInt32

ems.test.Uint8DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

uint8 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt8
par2	uInt8
par3	uInt8

ems.test.Uint16DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

uint16 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt16
par2	uInt16
par3	uInt16

ems.test.Uint32DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

uint32 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	uInt32
par2	uInt32
par3	uInt32

ems.test.ESRPCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

ESRP Domain `%domain%`

Message Parameters

Name	Type
domain	ESRP-domain

ems.test.ESRPError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

ESRP Domain `%domain%`

Message Parameters

Name	Type
domain	ESRP-domain

ems.test.ESRPWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

ESRP Domain `%domain%`

Message Parameters

Name	Type
domain	ESRP-domain

ems.test.ESRPNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

ESRP Domain `%domain%`

Message Parameters

Name	Type
domain	ESRP-domain

ems.test.ESRPInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

ESRP Domain `%domain%`

Message Parameters

Name	Type
domain	ESRP-domain

ems.test.ESRPDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

ESRP Domain `%domain%`

Message Parameters

Name	Type
domain	ESRP-domain

ems.test.ESRPDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

ESRP Domain `%domain%`

Message Parameters

Name	Type
domain	ESRP-domain

ems.test.ESRPDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

ESRP Domain `%domain%`

Message Parameters

Name	Type
domain	ESRP-domain

ems.test.AddrFamilyCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

IP Address Family `%family%`

Message Parameters

Name	Type
family	IPaddrFamily

ems.test.AddrFamilyError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

IP Address Family `%family%`

Message Parameters

Name	Type
family	IPaddrFamily

ems.test.AddrFamilyWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

IP Address Family `%family%`

Message Parameters

Name	Type
family	IPaddrFamily

ems.test.AddrFamilyNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

IP Address Family `%family%`

Message Parameters

Name	Type
family	IPaddrFamily

ems.test.AddrFamilyInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

IP Address Family `%family%`

Message Parameters

Name	Type
family	IPaddrFamily

ems.test.AddrFamilyDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

IP Address Family `%family%`

Message Parameters

Name	Type
family	IPaddrFamily

ems.test.AddrFamilyDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

IP Address Family `%family%`

Message Parameters

Name	Type
family	IPaddrFamily

ems.test.AddrFamilyDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

IP Address Family `%family%`

Message Parameters

Name	Type
family	IPaddrFamily

ems.test.IPv6Crtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

(src|dst)IPv6 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6
par2	srcIPv6
par3	dstIPv6

ems.test.IPv6ScpdCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

(src|dst)IPv6Scpd `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6Scoped
par2	srcIPv6Scoped
par3	dstIPv6Scoped

ems.test.IPaddressCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

(src|dst)IPaddress `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPaddress
par2	srcIPaddress
par3	dstIPaddress

ems.test.SockAddrCrtcl

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Critical

Message Text

(src|dst)SockAddr `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	SockAddr
par2	srcSockAddr
par3	dstSockAddr

ems.test.IPv6Error

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

(src|dst)IPv6 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6
par2	srcIPv6
par3	dstIPv6

ems.test.IPv6ScpdError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

(src|dst)IPv6Scpd `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6Scoped
par2	srcIPv6Scoped
par3	dstIPv6Scoped

ems.test.IPaddressError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

(src|dst)IPaddress `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPaddress
par2	srcIPaddress
par3	dstIPaddress

ems.test.SockAddrError

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Error

Message Text

(src|dst)SockAddr `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	SockAddr
par2	srcSockAddr
par3	dstSockAddr

ems.test.IPv6Warn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

(src|dst)IPv6 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6
par2	srcIPv6
par3	dstIPv6

ems.test.IPv6ScpdWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

(src|dst)IPv6Scpd `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6Scoped
par2	srcIPv6Scoped
par3	dstIPv6Scoped

ems.test.IPaddressWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

(src|dst)IPaddress `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPaddress
par2	srcIPaddress
par3	dstIPaddress

ems.test.SockAddrWarn

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Warning

Message Text

(src|dst)SockAddr `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	SockAddr
par2	srcSockAddr
par3	dstSockAddr

ems.test.IPv6Notice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

(src|dst)IPv6 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6
par2	srcIPv6
par3	dstIPv6

ems.test.IPv6ScpdNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

(src|dst)IPv6Scpd `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6Scoped
par2	srcIPv6Scoped
par3	dstIPv6Scoped

ems.test.IPaddressNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

(src|dst)IPaddress `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPaddress
par2	srcIPaddress
par3	dstIPaddress

ems.test.SockAddrNotice

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Notice

Message Text

(src|dst)SockAddr `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	SockAddr
par2	srcSockAddr
par3	dstSockAddr

ems.test.IPv6Info

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

(src|dst)IPv6 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6
par2	srcIPv6
par3	dstIPv6

ems.test.IPv6ScpdInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

(src|dst)IPv6Scpd `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6Scoped
par2	srcIPv6Scoped
par3	dstIPv6Scoped

ems.test.IPaddressInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

(src|dst)IPaddress `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPaddress
par2	srcIPaddress
par3	dstIPaddress

ems.test.SockAddrInfo

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Info

Message Text

(src|dst)SockAddr `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	SockAddr
par2	srcSockAddr
par3	dstSockAddr

ems.test.IPv6DbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

(src|dst)IPv6 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6
par2	srcIPv6
par3	dstIPv6

ems.test.IPv6ScpdDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

(src|dst)IPv6Scpd `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6Scoped
par2	srcIPv6Scoped
par3	dstIPv6Scoped

ems.test.IPaddressDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

(src|dst)IPaddress `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPaddress
par2	srcIPaddress
par3	dstIPaddress

ems.test.SockAddrDbgSum

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Summary

Message Text

(src|dst)SockAddr `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	SockAddr
par2	srcSockAddr
par3	dstSockAddr

ems.test.IPv6DbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

(src|dst)IPv6 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6
par2	srcIPv6
par3	dstIPv6

ems.test.IPv6ScpdDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

(src|dst)IPv6Scpd `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6Scoped
par2	srcIPv6Scoped
par3	dstIPv6Scoped

ems.test.IPaddressDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

(src|dst)IPaddress `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPaddress
par2	srcIPaddress
par3	dstIPaddress

ems.test.SockAddrDbgVerb

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Verbose

Message Text

(src|dst)SockAddr `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	SockAddr
par2	srcSockAddr
par3	dstSockAddr

ems.test.IPv6DbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

(src|dst)IPv6 `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6
par2	srcIPv6
par3	dstIPv6

ems.test.IPv6ScpdDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

(src|dst)IPv6Scpd `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPv6Scoped
par2	srcIPv6Scoped
par3	dstIPv6Scoped

ems.test.IPaddressDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

Debug-Data

Message Text

(src|dst)IPaddress `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	IPaddress
par2	srcIPaddress
par3	dstIPaddress

ems.test.SockAddrDbgData

Description

This is a test message used by the tool to test the EMS facility.

Remedy

This is a SQA test message and should never appear in real life.

Severity

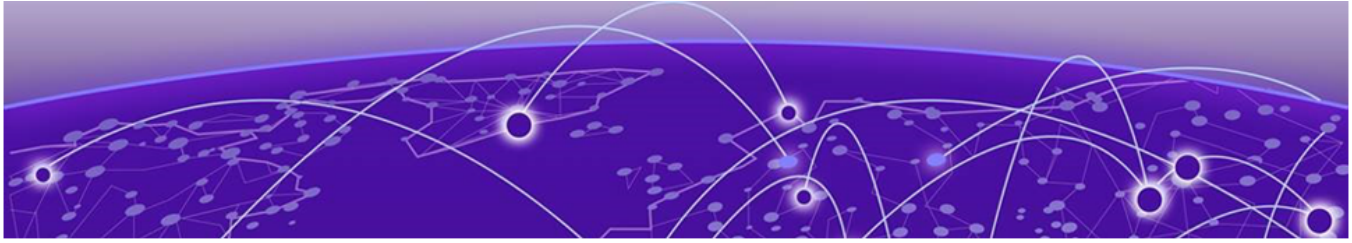
Debug-Data

Message Text

(src|dst)SockAddr `%par1%`, `%par2%`, `%par3%`

Message Parameters

Name	Type
par1	SockAddr
par2	srcSockAddr
par3	dstSockAddr



EPM Messages

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EPM.dep_check

Description

Run-time Process dependency check failed, Process will not be started

Remedy

Check running version of pre-requisite processes and compare with epmdprc dependency configuration file

Severity

Error

Message Text

process `%name%` dependencies check failed

Message Parameters

Name	Type
name	String

EPM.proc_exist

Description

Do not start process, it is already exist

Remedy

no remedy, this is effect of process restart

Severity

Error

Message Text

process `%name%` pid `%pid%` exists - send signal

Message Parameters

Name	Type
name	String
pid	uInt

EPM.first

Description

No processes configured in epmrc config file

Remedy

Edit epmrc configuration file, add nesessary application to run system

Severity

Error

Message Text

Empty PCB list

EPM.next

Description

Done either with initial portion of start-up or user demanded start sequence

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

No more processes to start

EPM.next_start

Description

Start Process.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

start process `%name%`

Message Parameters

Name	Type
name	String

EPM.state

Description

Process is not in init state

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Process `%name%` process ID `%pid%` is not in init state `%state%`

Message Parameters

Name	Type
name	String
pid	uInt
state	uInt

EPM.fork

Description

EPM failed to create process. error number description:EAGAIN (11), ENOMEM (12) Not enough resources to create new process

Remedy

Restart the system

Severity

Error

Message Text

Failed to fork `%name%` with error `%status%`

Message Parameters

Name	Type
name	String
status	uInt

EPM.crash_rate

Description

Process exceeded pre-configured or default crash rate and will not be restarted.

Remedy

change crash rate option in epmrc configuration file. Then invoke "run update" CLI command.

Severity

Error

Message Text

Process %name% exceeded pre-configured or default crash rate

Message Parameters

Name	Type
name	String

EPM.proc_conn_lost

Description

Connection with Process is broken

Remedy

appropriate recovery policy will be invoked automatically

Severity

Error

Message Text

Connection lost with process %name%

Message Parameters

Name	Type
name	String

EPM.timer

Description

Received HELLO message from the process for process monitoring function

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Process timers for process `%name%` ID `%pid%` timout count `%tmcount%`

Message Parameters

Name	Type
name	String
pid	uInt
tmcount	uInt

EPM.init_ipml_cl

Description

Can not allocate resources for EPM to receive messages from other processes

Remedy

Most likely another instance of EPM is running, restart node

Severity

Error

Message Text

Failed to create IPML client service

EPM.init_ds_reg

Description

Can not register with Directory Services to obtain port number for inter-process communication.

Remedy

reboot node

Severity

Error

Message Text

Registration with Directory services failed with error `%status%`

Message Parameters

Name	Type
status	uInt

EPM.init_ipml_ser

Description

Can not allocate resources for EPM to receive messages from other processes

Remedy

Most likely another instance of EPM is running, restart node

Severity

Error

Message Text

Failed to create IPML Server service

EPM.pkt_err

Description

Not enough resources in the system

Remedy

restart node

Severity

Error

Message Text

Can not allocate packet

EPM.proc_restart

Description

Restart process. For restart option look at epmrc configuration file

Remedy

expected behavior

Severity

Notice

Message Text

Restart process `%name%`

Message Parameters

Name	Type
name	String

EPM.rlimit_stack

Description

Invalid stack size for process is specified in epmrc configuration file

Remedy

Modify epmrc configuration file stack option

Severity

Error

Message Text

Can not start process with specified stack size `%size%` bytes

Message Parameters

Name	Type
name	String
size	uInt

EPM.rlimit_data

Description

Invalid data size for process is specified in epmrc configuration file

Remedy

Modify epmrc configuration file data option

Severity

Error

Message Text

Can not start process with specified data size `%size%` bytes

Message Parameters

Name	Type
name	String
size	uInt

EPM.rlimit_cputime

Description

Invalid cpu time for process is specified in epmrc configuration file

Remedy

Modify epmrc configuration file cputime option

Severity

Error

Message Text

Can not start process `%name%` with defined CPU time limit `%time%` seconds

Message Parameters

Name	Type
name	String
time	uInt

EPM.rlimit_core

Description

Invalid core file size for process is specified in epmrc configuration file

Remedy

Modify epmrc configuration file core option

Severity

Error

Message Text

Can not start process `%name%` with defined core file size `%size%` bytes

Message Parameters

Name	Type
name	String
size	uInt

EPM.exec

Description

Can not execute process, errors are: 13 /* Permission denied */ 7 /* Arg list too long */ 1 /* Operation not permitted */ 8 /* Exec format error */ 14 /* Bad address */ 36 /* File name

too long */ 2 /* No such file or directory */ 20 /* Not a directory */ 12 /* Out of memory */ 26 /* Text file busy */ 40 /* Too many symbolic links encountered */

Remedy

restart node

Severity

Error

Message Text

Can not execute process `%name%` with error `%status%`

Message Parameters

Name	Type
name	String
status	sInt

EPM.proc_kill

Description

forcefull termination of the process was executed

Remedy

Recovery option will be taken automatically.

Severity

Warning

Message Text

Process `%name%` ID `%pid%` killed

Message Parameters

Name	Type
name	String
pid	uInt

EPM.proc_dead

Description

No description is available.

Remedy

recovery mode will be invoked automatically

Severity

Warning

Message Text

Process `%name%` ID `%pid%` has been asked to shutdown but did not exit normally

Message Parameters

Name	Type
name	String
pid	uInt

EPM.proc_cantstart

Description

No description is available.

Remedy

most likely there is an exception or error in the process. Patch release to substitute process binary is reccomended

Severity

Warning

Message Text

Process `%name%` ID `%pid%` can not be started successfully multiple times

Message Parameters

Name	Type
name	String
pid	uInt

EPM.proc_abort

Description

Process failed to adhere to monitoring algorithms. Process may be disfunctional. Recovery option will be taken immediatly

Remedy

Recovery option will be taken automatically.

Severity

Warning

Message Text

Process `%name%` ID `%pid%` does not respond, abort it

Message Parameters

Name	Type
name	String
pid	uInt

EPM.epmrc

Description

corrupted or non-existed configuration file

Remedy

upgrade to new software

Severity

Error

Message Text

Failed to read epmrc configuration file with error `%ret%`

Message Parameters

Name	Type
ret	uInt

EPM.epmdprc

Description

corrupted or non-existed configuration file

Remedy

upgrade to new software

Severity

Warning

Message Text

Failed to read epmdprc configuration file with error `%ret%`

Message Parameters

Name	Type
ret	uInt

EPM.clisub

Description

No description is available.

Remedy

cli master died, recovery will be taken automatically

Severity

Error

Message Text

CLI subagent initialization failed!

EPM.orsub

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to initialize object router subagent!

EPM.all_shutdown

Description

part of the reboot switch/msm/node process

Remedy

expected behavior

Severity

Warning

Message Text

Shutting down all processes

EPM.proc_dir

Description

pseudo-filesystem is not available

Remedy

reboot node

Severity

Error

Message Text

cannot open directory (/proc)

EPM.hello_rate

Description

Process sends HELLO messages more often then expected.

Remedy

no remedy

Severity

Debug-Summary

Message Text

Received hellos from process `%name%` `%helloCount%` more often then expected `%historyHelloCount%`

Message Parameters

Name	Type
name	String
historyHelloCount	uInt
helloCount	uInt

EPM.oom

Description

Not enough available memory

Remedy

restart node

Severity

Error

Message Text

Can not allocate memory

EPM.work_q

Description

No description is available.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Work event `%event%`

Message Parameters

Name	Type
event	uInt

EPM.start

Description

EXOS software starts

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

EPM Started

EPM.memzone

Description

System Memory monitoring alert

Remedy

no remedy

Severity

Warning

Message Text

Process `%name%` transferred to `%zone%` memory monitoring zone from `%prev_zone%` zone. System Memory usage zone is `%syszone%`. Statistcis: green zone `%green%` yellow `%yellow%` orange `%orange%` red `%red%`

Message Parameters

Name	Type
name	String
zone	String
prev_zone	String

Name	Type
syszone	String
green	uInt
yellow	uInt
orange	uInt
red	uInt

EPM.oomkill

Description

Process used more memory then limit specified in epmrc configuration file

Remedy

Recovery policy will be executed automatically

Severity

Warning

Message Text

Excessive memory usage, terminate process `%name%`

Message Parameters

Name	Type
name	String

EPM.wd_warm_reset

Description

Change to watchdog warm reset mode.

Remedy

info message

Severity

Notice

Message Text

Changing to watchdog warm reset mode

EPM.likely_slept

Description

Dues to resource limitation most like EPM was not running for period of time. After recognizing the issue EPM will back off its process timers to process all HELLO messages instead of terminating processes

Remedy

self-reconciled cituation

Severity

Warning

Message Text

EPM was likely not running for `%secs%` seconds. Will take adjusting actions

Message Parameters

Name	Type
secs	uInt

EPM.reboot

Description

reboot of the switch/MSM/node

Remedy

expected behavior

Severity

Warning

Message Text

User `%user%`: Rebooting with reason `%reason%`

Message Parameters

Name	Type
reason	String
user	AccountName

EPM.trial_days_till_expired

Description

No description is available.

Remedy

notification, no remedy

Severity

Warning

Message Text

`%days%` left until trial license expiration

Message Parameters

Name	Type
days	uInt

EPM.trial_expired

Description

No description is available.

Remedy

notification, no remedy

Severity

Critical

Message Text

Trial License expired !!!

EPM.license_trial_enabled

Description

No description is available.

Remedy

notification, no remedy

Severity

Warning

Message Text

Trial License (`%days%`) is enabled by user `%user%`

Message Parameters

Name	Type
days	uInt
user	String

EPM.License.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

EPM.license_insuff_sw

Description

No description is available.

Remedy

upgrade to the higher level license

Severity

Debug-Summary

Message Text

Insufficient license:Process `%name%` configured license level `%level%` current license level `%cll%`

Message Parameters

Name	Type
name	String
level	uInt
cll	uInt

EPM.license_insuff_hw

Description

No description is available.

Remedy

current card type does not support running of this process. Ask customer to upgrade the MSM to the higher level (e.g. from MSM-1 to MSM-1XL)

Severity

Warning

Message Text

Insufficient License: process `%name%` to run on card type `%type%` running on `%mytype%`

Message Parameters

Name	Type
name	String
type	String
mytype	String

EPM.license_update

Description

No description is available.

Remedy

notification, no remedy

Severity

Debug-Summary

Message Text

Send license update `%feature%` to process `%name%`

Message Parameters

Name	Type
name	String
feature	String

EPM.install_status

Description

No description is available.

Remedy

notification, no remedy

Severity

Notice

Message Text

User `%user%`: Image installation finished with status `%status%%reason%`

Message Parameters

Name	Type
status	String
reason	String
user	AccountName

EPM.uninstall_status

Description

No description is available.

Remedy

notification, no remedy

Severity

Notice

Message Text

User `%user%`: Image uninstallation finished with status `%status%%reason%`

Message Parameters

Name	Type
status	String
reason	String
user	AccountName

EPM.download_status

Description

No description is available.

Remedy

notification, no remedy

Severity

Notice

Message Text

Download of image finished with status `%status%%reason%`

Message Parameters

Name	Type
status	String
reason	String

EPM.cpu

Description

No description is available.

Remedy

termination(shutdown) of the process or reboot of the node may be needed if process consumes 99% CPU for a long perid of time.

Severity

Warning

Message Text

CPU utilization monitor: process `%name%` consumes `%cpu%` %% CPU

Message Parameters

Name	Type
name	String
cpu	uInt

EPM.reboot_info

Description

reboot of the switch/MSM/node

Remedy

expected behavior

Severity

Notice

Message Text

Rebooting with reason `%reason%`

Message Parameters

Name	Type
reason	String

EPM.wdg_enable

Description

No description is available.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

Watchdog enabled

EPM.wdg_disable

Description

No description is available.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

Watchdog disabled

EPM.SendRegPrim

Description

Sending a Peer Registration message via IPML to the Primary EPM server.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Sending registration to EPM with slot `%slot%` chassis `%chassis%`

Message Parameters

Name	Type
slot	uInt
chassis	uInt

EPM.Trace

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EPM.system_stable

Description

Change to watchdog warm reset mode

Remedy

No remedy is available.

Severity

Notice

Message Text

System is stable. Change to warm reset mode

EPM.hitless_status

Description

No description is available.

Remedy

notification, no remedy

Severity

Notice

Message Text

Checked for hitless upgrade finished with status `%status%%reason%`

Message Parameters

Name	Type
status	String
reason	String

EPM.license_clear

Description

User has issued clear license-info command to clear license information in EEPROM.

Remedy

No remedy.

Severity

Warning

Message Text

License information has been cleared in EEPROM.

EPM.dirty_config

Description

The system configuration is dirty (the running system configuration is different from the last saved configuration), so the process cannot be re-started since it will not be able to load back the un-saved running system configuration when it re-starts.

Remedy

Process re-start cannot work currently if the system configuration is not saved. Will require a box reboot to get the process running again.

Severity

Error

Message Text

Process `%name%` cannot be re-started because the system configuration was not saved.

Message Parameters

Name	Type
name	String

EPM.scheduled_reboot

Description

User has scheduled the next reboot as shown on show switch's Next Reboot field.

Remedy

expected behavior

Severity

Warning

Message Text

User scheduled Next Reboot: `%mode%` `%time%`

Message Parameters

Name	Type
mode	String
time	String

EPM.cpu_debug

Description

No description is available.

Remedy

termination(shutdown) of the process or reboot of the node may be needed if process consumes 99% CPU for a long perid of time.

Severity

Debug-Summary

Message Text

CPU utilization monitor: process `%name%` consumes `%cpu%` %% CPU

Message Parameters

Name	Type
name	String
cpu	uInt

EPM.UnexpctRebootDtect

Description

System Rebooting after Power Shutdown or System Crash.

Remedy

notification, no remedy

Severity

Warning

Message Text

Booting after System Failure.

EPM.license_EEPROM_error

Description

License Manager attempted to read license info from EEPROM but encountered an error returned by the well known info library.

Remedy

This problem may be due to damage or corruption of the EEPROM and should be reported. Switch is now using the default switch license level.

Severity

Error

Message Text

License Manager failed to read license info from EEPROM (error code = `%error_code%`)

Message Parameters

Name	Type
error_code	sInt

EPM.EXOSImgExpDate

Description

This message warns the user that this EXOS image is for tempoary use only.

Remedy

Be prepared to get a new version of EXOS image from Extreme Networks when this EXOS image expires.

Severity

Warning

Message Text

This EXOS image is for temporary use and will expire on `%expiration_date%`

Message Parameters

Name	Type
expiration_date	String

EPM.EXOSImgExp

Description

This message alarms the user that this EXOS image has expired.

Remedy

It is time for the user to contact Extreme Networks for a new EXOS image.

Severity

Critical

Message Text

This EXOS image has expired. A reboot will occur in one hour.

EPM.EXOSRebootImgExp

Description

This reboot was intended to stop the user from using an expired EXOS image.

Remedy

The user should install a new EXOS image to replace the current expired EXOS image.

Severity

Critical

Message Text

Rebooting EXOS because this EXOS image has already expired.

EPM.SSHLcnsNotEnbl

Description

The security module will not be started because it requires an SSH License, which is not enabled on the switch. The user must enable the SSH license on the switch in order to use security features such as SSH2, SSL, SCP, SFTP and AES for SNMPv3, that are packaged as part of ssh.xmod.

Remedy

The license key is tied to the switch serial number that you register through the web portal. For a standalone switch, this is the system serial number; for a modular switch, it is the chassis serial number; and for a SummitStack configuratio, it is the serial number of the Stack Master switch. The "show version" command displays serial numbers. If the user already has an SSH license key we can enable it using the "enable license {software} <key>" command. If the user has a consolidated license file (which has the license key of all the registered switches), we can enable it using the following 2 steps: a) Use the "tftp get" command to copy the license file to the switch; b) Use the "enable license file <file-name>" command to enable the license.

Severity

Notice

Message Text

Security module will not be started because SSH License is not enabled.

EPM.EnblFPLcns

Description

No description is available.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Feature pack license `%cfp%` enabled by user `%user%`

Message Parameters

Name	Type
cfp	String
user	String

EPM.EnblSWLcns

Description

No description is available.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Software license level `%cll%` enabled by user `%user%`

Message Parameters

Name	Type
cll	String
user	String

EPM.DnldStatus

Description

Image download status with account name. List of status: "success", "failure", "warning" List of reason: For "success" status: "Image integrity check passed." For "failure" status: standard error messages from system calls For "warning" status: warning messages from image signature validation

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

User `%user%`: Download of image finished with status `%status%%reason%`

Message Parameters

Name	Type
status	String
reason	String
user	AccountName

EPM.DnldImgCnclUser

Description

Download image command was cancelled as user replied 'No' to the prompt.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Download image was cancelled by user \"`%user%`\".

Message Parameters

Name	Type
user	AccountName

EPM.InstlImgInvSignContUser

Description

User continued with the installation of image with an invalid signature.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Installing an image with an invalid signature was continued by user \"%user%\"

Message Parameters

Name	Type
user	AccountName

EPM.InstlImgInvSignCnclUser

Description

User cancelled installation of image with an invalid signature.

Remedy

No action required - Information message only.

Severity

Info

Message Text

Installing an image with an invalid signature was cancelled by user \"%user%\"

Message Parameters

Name	Type
user	AccountName

EPM.PythonScrptUnsuprt

Description

Failed to create a Python-based process during because Python scripting is not supported.

Remedy

If FIPS mode is enabled, consider turning off FIPS mode by using 'configure security fips-mode off'. If FIPS mode is disabled, consider turning on Python scripting by using 'configure security python on'.

Severity

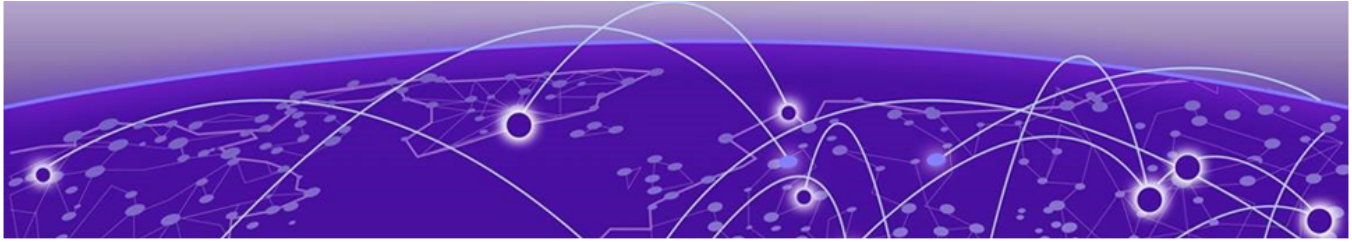
Error

Message Text

Failed to create a Python-based process `%process%` because `%reason%`.

Message Parameters

Name	Type
process	String
reason	String



EPM.Client Messages

EPM.Client.shutdown_reg on page 1158
EPM.Client.proc_reg on page 1159
EPM.Client.proc_thread_msg on page 1159
EPM.Client.oom on page 1160
EPM.Client.pkt_err on page 1160
EPM.Client.send_failed on page 1161
EPM.Client.keep_alive on page 1161
EPM.Client.keep_alive_msg on page 1162
EPM.Client.keep_alive_th on page 1162
EPM.Client.hello_ack on page 1163
EPM.Client.pid_set on page 1163
EPM.Client.statechange_reg on page 1164
EPM.Client.no_license on page 1164
EPM.Client.license_limit on page 1165

EPM.Client.shutdown_reg

Description

Process register shutdown function

Remedy

none

Severity

Info

Message Text

Shutdown Function registered

EPM.Client.proc_reg

Description

Process starts registration with EPM

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

Process `%name%` starts registration

Message Parameters

Name	Type
name	String

EPM.Client.proc_thread_msg

Description

Process chose messenger thread to send updates to EPM

Remedy

none

Severity

Warning

Message Text

Process `%name%`: Messenger thread `%messenger%` with delay `%delay%` will register `%threads%` threads

Message Parameters

Name	Type
name	String
delay	uInt
threads	uInt
messenger	uInt

EPM.Client.oom

Description

out of memory

Remedy

Reboot the node

Severity

Error

Message Text

Can not allocate memory

EPM.Client.pkt_err

Description

out of memory

Remedy

Reboot the node

Severity

Error

Message Text

Can not allocate packet

EPM.Client.send_failed

Description

Transmit of the packet failed

Remedy

Reboot the node

Severity

Error

Message Text

Send to peer `%peerId%` failed with status `%status%`

Message Parameters

Name	Type
peerId	uInt
status	uInt

EPM.Client.keep_alive

Description

Process sends HELLO message to EPM; part of process monitoring algorithm

Remedy

none

Severity

Warning

Message Text

Process `%name%` thread `%tid%` is alive

Message Parameters

Name	Type
name	String
tid	uInt

EPM.Client.keep_alive_msg

Description

Only one thread for multi-threaded applications will be sendinng updates for all other threads that updated locally.

Remedy

none

Severity

Warning

Message Text

Messenger thread `%tid%` reports for `%count%` threads

Message Parameters

Name	Type
tid	uInt
count	uInt

EPM.Client.keep_alive_th

Description

Local update for thread

Remedy

none

Severity

Warning

Message Text

Report aliveness for thread ID `%tid%`

Message Parameters

Name	Type
tid	uInt

EPM.Client.hello_ack

Description

Process sends HELLO_ACK message if EPM sends HELLO

Remedy

none

Severity

Warning

Message Text

Process `%name%` replies to EPM hello message

Message Parameters

Name	Type
name	String

EPM.Client.pid_set

Description

EPM monitors only one process id even for multi-threaded applications.Usually this is process ID of the main thread

Remedy

none

Severity

Warning

Message Text

EPM Client sets common process ID to `%pid%`

Message Parameters

Name	Type
pid	uInt

EPM.Client.statechange_reg

Description

Registration of state change callback

Remedy

none

Severity

Warning

Message Text

State Change callback registered

EPM.Client.no_license

Description

No description is available.

Remedy

upgrade to the next higher license level

Severity

Error

Message Text

This command cannot be executed at the current license level

EPM.Client.license_limit

Description

No description is available.

Remedy

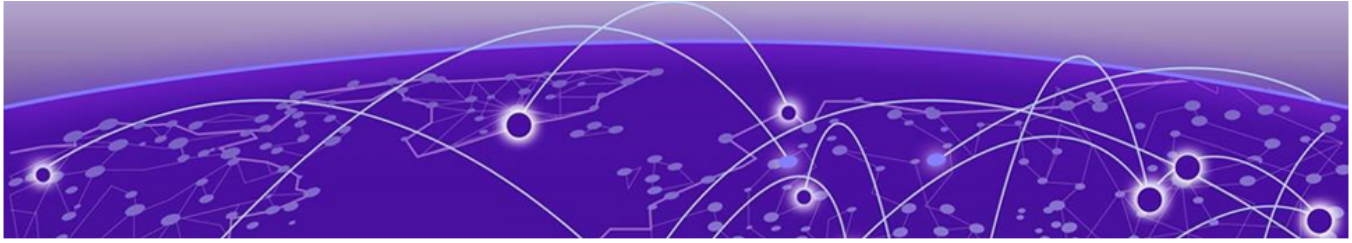
upgrade to the next higher license level

Severity

Error

Message Text

Maximum limit for the feature at this license level is reached



EPM.ISSU Messages

EPM.ISSU.DebugSummary on page 1166
EPM.ISSU.DebugVerbose on page 1167
EPM.ISSU.DebugData on page 1167
EPM.ISSU.RollUpgrdStrt on page 1168
EPM.ISSU.RollUpgrdSlotReboot on page 1168
EPM.ISSU.RollUpgrdSlotRebootOK on page 1169
EPM.ISSU.RollUpgrdDone on page 1169
EPM.ISSU.RollUpgrdCncl on page 1170
EPM.ISSU.RollUpgrdSkipCompat on page 1171

EPM.ISSU.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EPM.ISSU.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EPM.ISSU.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EPM.ISSU.RollUpgrdStrt

Description

A rolling reboot has been started. One-by-one, each standby slot will be rebooted, followed by the backup slot. A failover will then be performed to complete the rolling reboot. If a new software version has been installed, when the rolling reboot is completed, all slots will be running the new software.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

A rolling reboot has been started. The current software version is `%curVersion%`. After the rolling reboot is finished, the running software version will be `%nextVersion%`.

Message Parameters

Name	Type
curVersion	String
nextVersion	String

EPM.ISSU.RollUpgrdSlotReboot

Description

During a rolling reboot, each standby slot, followed by the backup slot, is rebooted one-by-one. This event indicates that the specified slot is about to be rebooted.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

`%role%` slot `%slot%` will be rebooted as part of the rolling reboot process.

Message Parameters

Name	Type
role	String
slot	Slot

EPM.ISSU.RollUpgrdSlotRebootOK

Description

During a rolling reboot, each standby slot, followed by the backup slot, is rebooted one-by-one. This event indicates that the specified slot has finished rebooting.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

Slot `%slot%` was successfully rebooted as part of the rolling reboot process.

Message Parameters

Name	Type
slot	Slot

EPM.ISSU.RollUpgrdDone

Description

All non-primary slots have been rebooted so the primary slot is the only one left to reboot. To reboot the primary slot, a failover will be performed resulting in the current

primary slot being rebooted and thus completing the last step of the rolling upgrade process. Unless there is a failure, this will be the last event generated from the rolling reboot.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

All non-primary slots have been rebooted. To finish the rolling reboot process, a failover will be performed.

EPM.ISSU.RollUpgrdCncl

Description

The rolling reboot was canceled due to the specified reason. The system will most likely be left in a state that requires manual intervention to correct.

Remedy

If the rolling reboot was part of an In-Service Upgrade, the system is likely left in a state where some slots are running the upgraded software, and some are not. This condition must be fixed manually. Once the problem that caused the rolling reboot to be canceled is corrected, each standby slot that has not already been rebooted should be manually rebooted. Be sure each standby slot is back up and operational before rebooting the next slot. Once all standby slots have been rebooted and come back in-service, manually reboot the backup slot and ensure that it comes back In-Sync. The last step to perform a failover.

Severity

Error

Message Text

The rolling reboot was canceled due to an error: `%reason%`

Message Parameters

Name	Type
reason	String

EPM.ISSU.RollUpgrdSkipCompat

Description

Compatibility checks ensure that an In-Service Upgrade is not performed between releases which are known to be incompatible; however, there may be circumstances where it is desirable to ignore compatibility checks and upgrade anyway. This event is generated to indicate that the rolling reboot is being run without performing compatibility checks.

Remedy

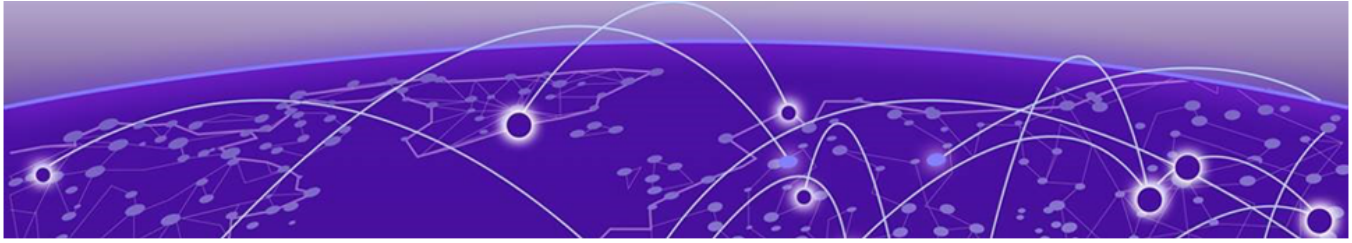
No action required - Informational message only.

Severity

Warning

Message Text

A rolling reboot has been started with compatibility checks disabled.



EPM.KLM Messages

EPM.KLM.insmod on page 1172
EPM.KLM.insmod_state on page 1173
EPM.KLM.doesnt_exist on page 1173
EPM.KLM.insmod_fail on page 1174
EPM.KLM.mod_unknown on page 1174
EPM.KLM.version on page 1175
EPM.KLM.rmmod_fail on page 1175
EPM.KLM.exist on page 1176
EPM.KLM.rmall on page 1176
EPM.KLM.rmmod_state on page 1177
EPM.KLM.rmmod on page 1177

EPM.KLM.insmod

Description

Dynamically insert module into the kernel

Remedy

None

Severity

Debug-Summary

Message Text

Insert module `%name%` path `%path%`

Message Parameters

Name	Type
name	String
path	String

EPM.KLM.insmod_state

Description

Failed to insert kernel loadable module into the kernel. Looks like already inserted module.

Remedy

None

Severity

Error

Message Text

Will not insert module `%name%`, invalid state `%state%`

Message Parameters

Name	Type
name	String
state	uInt

EPM.KLM.doesnt_exist

Description

kernel loadable module does not exist

Remedy

Verify that object file exists

Severity

Error

Message Text

Kernel Module `%name%` does not exist

Message Parameters

Name	Type
name	String

EPM.KLM.insmod_fail

Description

kernel loadable module can not be loaded

Remedy

reboot node

Severity

Warning

Message Text

Failed to load module `%name%`

Message Parameters

Name	Type
name	String

EPM.KLM.mod_unknown

Description

Unknown kernel loadable module.

Remedy

Verify that object file exists

Severity

Error

Message Text

Kernel Module `%name%` was not inserted

Message Parameters

Name	Type
name	String

EPM.KLM.version

Description

kernel loadable module reports version

Remedy

None

Severity

Debug-Summary

Message Text

Module info returns version `%major%.%minor%.%patch%.%build%`

Message Parameters

Name	Type
major	uInt
minor	uInt
patch	uInt
build	uInt

EPM.KLM.rmmod_fail

Description

Remove module failed (module was not inserted)

Remedy

insert module first. ru cli command "run update"

Severity

Error

Message Text

Remove module failed (module was not inserted)

Message Parameters

Name	Type
name	String

EPM.KLM.exist

Description

Failed to remove kernel module

Remedy

Verify that object file exists

Severity

Error

Message Text

Failed to remove kernel module `%name%`

Message Parameters

Name	Type
name	String

EPM.KLM.rmall

Description

Failed to remove kernel module for shutdown

Remedy

None

Severity

Notice

Message Text

Removing all kernel modules

EPM.KLM.rmmod_state

Description

failed to remove kernel loadable module

Remedy

None

Severity

Error

Message Text

Will not remove module `%name%`, invalid state `%state%`

Message Parameters

Name	Type
name	String
state	uInt

EPM.KLM.rmmod

Description

Dynamically remove module from the kernel

Remedy

None

Severity

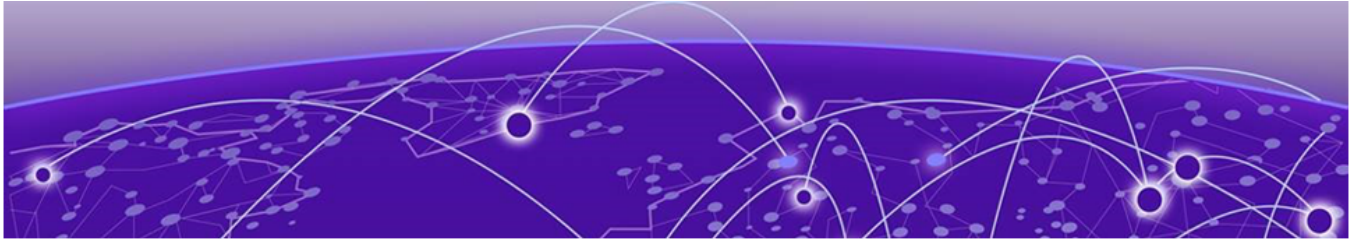
Debug-Summary

Message Text

Removing kernel module `%name%`

Message Parameters

Name	Type
name	String



EPM.License Messages

EPM.License.Error on page 1179
EPM.License.Warning on page 1180
EPM.License.Notice on page 1180
EPM.License.Info on page 1181
EPM.License.DebugSummary on page 1181
EPM.License.DebugVerbose on page 1182
EPM.License.Expire1 on page 1183
EPM.License.ReadCardObjFail on page 1183
EPM.License.WriteCardObjFail on page 1184
EPM.License.ReadObjFail on page 1184
EPM.License.WriteObjFail on page 1185

EPM.License.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EPM.License.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EPM.License.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EPM.License.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EPM.License.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or

completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EPM.License.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

EPM.License.Expire1

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Critical

Message Text

hell `%hell%`

Message Parameters

Name	Type
hell	String

EPM.License.ReadCardObjFail

Description

This event occurs whenever read EEPROM card object call fails.

Remedy

This is a rare internal condition, it may be due to damage or corruption of the EEPROM on the module. Please contact technical support with the following information: The output display by the "show tech-support" command.

Severity

Error

Message Text

Read card EEPROM object `%objName%` in `%slotName%` failed with error : `%errMsg%`

Message Parameters

Name	Type
objName	String
slotName	String
errMsg	String

EPM.License.WriteCardObjFail

Description

This event occurs whenever write card EEPROM object call fails.

Remedy

This is a rare internal condition, it may be due to damage or corruption of the EEPROM on the module. Please contact technical support with the following information: The output display by the "show tech-support" command.

Severity

Error

Message Text

Write card EEPROM object `%objName%` in `%slotName%` failed with error: `%errMsg%`

Message Parameters

Name	Type
objName	String
slotName	String
errMsg	String

EPM.License.ReadObjFail

Description

This event occurs whenever read EEPROM object call fails.

Remedy

This is a rare internal condition, it may be due to damage or corruption of the EEPROM. Please contact technical support with the following information: The output display by the "show tech-support" command.

Severity

Error

Message Text

Read EEPROM object `%objName%` failed with error : `%errMsg%`

Message Parameters

Name	Type
objName	String
errMsg	String

EPM.License.WriteObjFail

Description

This event occurs whenever write EEPROM object call fails.

Remedy

This is a rare internal condition, it may be due to damage or corruption of the EEPROM. Please contact technical support with the following information: The output display by the "show tech-support" command.

Severity

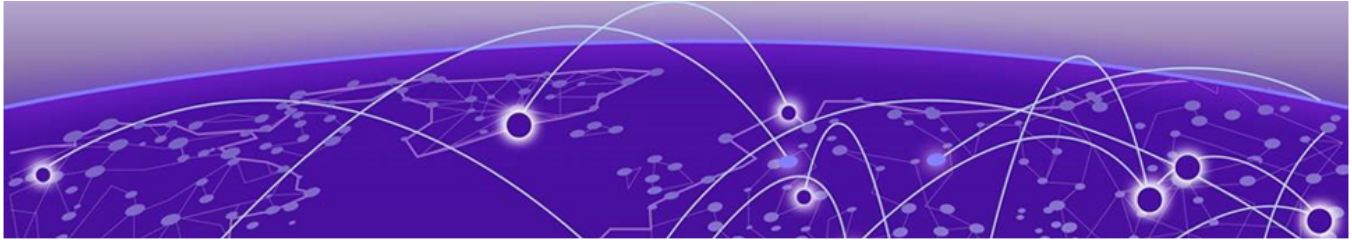
Error

Message Text

Write EEPROM object `%objName%` failed with error: `%errMsg%`

Message Parameters

Name	Type
objName	String
errMsg	String



EPM.Msg Messages

EPM.Msg.timer_thread on page 1188
EPM.Msg.proc_id_unknown on page 1188
EPM.Msg.thread_reg on page 1189
EPM.Msg.thread_dereg on page 1190
EPM.Msg.proc_ths_dereg on page 1190
EPM.Msg.proc_unknown on page 1191
EPM.Msg.th_reg_delay on page 1191
EPM.Msg.proc_reg on page 1192
EPM.Msg.proc_kill on page 1192
EPM.Msg.proc_shutdown on page 1193
EPM.Msg.proc_start on page 1193
EPM.Msg.proc_exist on page 1194
EPM.Msg.proc_hello on page 1195
EPM.Msg.proc_thhello on page 1195
EPM.Msg.hello_rate on page 1196
EPM.Msg.proc_hello_ack on page 1196
EPM.Msg.proc_nomon on page 1197
EPM.Msg.state_change on page 1197
EPM.Msg.send_failed on page 1198
EPM.Msg.update on page 1199
EPM.Msg.pkt_no_src on page 1199
EPM.Msg.pkt_valid on page 1199
EPM.Msg.pkt_no_msg on page 1200
EPM.Msg.pkt_oom on page 1200
EPM.Msg.command on page 1201
EPM.Msg.thread_hello on page 1201
EPM.Msg.proc_report on page 1202
EPM.Msg.likely_slept on page 1203

EPM.Msg.timer_thread

Description

The process manager (EPM) expects to receive a hello messages (i.e. a 'heartbeat') from each thread of every running process on a regular basis. After a sufficient amount of time (as indicated by the time periods) has elapsed since the last hello message was received from a particular thread, EPM assumes that the process is in an unresponsive state which will adversely affect the performance of the system and that terminating it will avert the situation. The occurrence of this event is sometimes is indicative of a software issue in the targeted process.

Remedy

All of the output from "show log" should be examined for the occurrence of other events that may be relevant and lead up to the occurrence of this event. If this behavior is repeatable, then capturing the output from "show process" may be helpful. Also, running the "top" command may help isolate the occurrence of the issue in order to correlate it with other process activity. The configuration relative to the targeted application process may be particularly relevant to the issue.

Severity

Error

Message Text

Because the `%name%` (`%threadId%`) thread of process `%pid%`, has not responded within `%count%` periods of `%delay%` seconds, the process will be terminated.

Message Parameters

Name	Type
threadId	uInt
count	uInt
delay	uInt
pid	uInt
name	String

EPM.Msg.proc_id_unknown

Description

Unknown process; will not be monitored

Remedy

add process name to epmr configuration file

Severity

Notice

Message Text

Unknown Process ID `%pid%`

Message Parameters

Name	Type
pid	uInt

EPM.Msg.thread_reg

Description

part of the process monitoring algorithm

Remedy

None

Severity

Debug-Summary

Message Text

Register new thread ID `%tid%` for process `%name%` pid `%pid%`

Message Parameters

Name	Type
name	String
pid	uInt
tid	uInt

EPM.Msg.thread_dereg

Description

part of the process monitoring algorithm

Remedy

None

Severity

Debug-Summary

Message Text

Deregister thread `%tid%` from the process `%name%` ID `%pid%`

Message Parameters

Name	Type
name	String
pid	uInt
tid	uInt

EPM.Msg.proc_ths_dereg

Description

part of the process monitoring algorithm. All threads will be deregistered when process is terminated

Remedy

None

Severity

Debug-Summary

Message Text

Deregister all threads for process `%name%` ID `%pid%`

Message Parameters

Name	Type
name	String
pid	uInt

EPM.Msg.proc_unknown

Description

Unknown process; will not be monitored

Remedy

add process name to epmr configuration file

Severity

Notice

Message Text

Unknown Process `%name%`

Message Parameters

Name	Type
name	String

EPM.Msg.th_reg_delay

Description

part of the process monitoring algorithm

Remedy

None

Severity

Debug-Summary

Message Text

Thread ID `%tid%` register delay `%delay%`

Message Parameters

Name	Type
tid	uInt
delay	uInt

EPM.Msg.proc_reg

Description

part of the process monitoring algorithm

Remedy

None

Severity

Debug-Summary

Message Text

Register process `%name%`

Message Parameters

Name	Type
name	String

EPM.Msg.proc_kill

Description

User requested forceful termination of the process

Remedy

to restart process run cli command "run update"

Severity

Notice

Message Text

Requested to kill process `%name%`

Message Parameters

Name	Type
name	String

EPM.Msg.proc_shutdown

Description

User requested graceful termination of the process

Remedy

to restart process run cli command "run update"

Severity

Notice

Message Text

Requested process `%name%` shutdown

Message Parameters

Name	Type
name	String

EPM.Msg.proc_start

Description

User requested process start

Remedy

if process is already started, terminate first

Severity

Notice

Message Text

Requested process `%name%` start

Message Parameters

Name	Type
name	String

EPM.Msg.proc_exist

Description

can not start process that already exists

Remedy

if process is already started, terminate first

Severity

Error

Message Text

Process `%name%` already exists

Message Parameters

Name	Type
name	String

EPM.Msg.proc_hello

Description

part of the process monitoring algorithm.

Remedy

None

Severity

Debug-Summary

Message Text

Received hello from `%name%`

Message Parameters

Name	Type
name	String

EPM.Msg.proc_thhello

Description

part of the process monitoring algorithm.

Remedy

None

Severity

Debug-Summary

Message Text

Receive hello from process `%name%` thread ID `%tid%` delay `%delay%`

Message Parameters

Name	Type
name	String
tid	xInt
delay	uInt

EPM.Msg.hello_rate

Description

part of the process monitoring algorithm.Process sends hello too often. Message is logged, no action will be taken

Remedy

None

Severity

Info

Message Text

Process `%name%` sends hello too often, expected once in `%delay%` secs

Message Parameters

Name	Type
name	String
delay	uInt

EPM.Msg.proc_hello_ack

Description

part of the process monitoring algorithm.

Remedy

None

Severity

Debug-Summary

Message Text

Received Hello Ack from process `%name%`

Message Parameters

Name	Type
name	String

EPM.Msg.proc_nomon

Description

part of the process monitoring algorithm.

Remedy

to monitor process edit epmrc configuration file

Severity

Debug-Summary

Message Text

Process `%name%` is not monitored

Message Parameters

Name	Type
name	String

EPM.Msg.state_change

Description

Send state change to all processes

Remedy

None

Severity

Info

Message Text

Broadcast state change (`%state%`) to every known process

Message Parameters

Name	Type
state	uInt

EPM.Msg.send_failed

Description

Transmit of the packet failed

Remedy

reboot node

Severity

Error

Message Text

Send failed to process `%name%` connection ID `%peerId%` with error `%bytes%`

Message Parameters

Name	Type
name	String
peerId	uInt
bytes	sInt

EPM.Msg.update

Description

Requested update of the epmrc configuration file into the memory. All processes that are not running will be started automatically

Remedy

None

Severity

Notice

Message Text

Requested update of the epmrc configuration file into the memory

EPM.Msg.pkt_no_src

Description

Invalid packet, will not be processed

Remedy

None

Severity

Error

Message Text

Packet does not have source process name

EPM.Msg.pkt_valid

Description

Valid packet

Remedy

None

Severity

Debug-Summary

Message Text

Received packet type `%tag%` from process `%name%`

Message Parameters

Name	Type
name	String
tag	xInt

EPM.Msg.pkt_no_msg

Description

Invalid packet, will not be processed

Remedy

reboot node

Severity

Error

Message Text

Received packet from process `%name%` - no message tag

Message Parameters

Name	Type
name	String

EPM.Msg.pkt_oom

Description

out of memory

Remedy

reboot node

Severity

Error

Message Text

Can not allocate packet

EPM.Msg.command

Description

Received command from user

Remedy

None

Severity

Debug-Summary

Message Text

Received command `%tag%` for process `%name%`

Message Parameters

Name	Type
name	String
tag	xInt

EPM.Msg.thread_hello

Description

part of the process monitoring algorithm

Remedy

None

Severity

Debug-Summary

Message Text

Received hello from process `%pname%` thread name `%tname%` ID `%tid%`

Message Parameters

Name	Type
pname	String
tname	String
tid	uInt

EPM.Msg.proc_report

Description

Process reported problem to EPM

Remedy

if problem is severe EPM will reboot node

Severity

Warning

Message Text

EPM: process `%srcName%` reported problem in process `%dstName%` - `%reason%`

Message Parameters

Name	Type
srcName	String
dstName	String
reason	String

EPM.Msg.likely_slept

Description

Due to resource limitation EPM might be not running for some time. It will need to backup its timers to process all pending hellos to avoid unnecessary process termination

Remedy

decrease load on switch

Severity

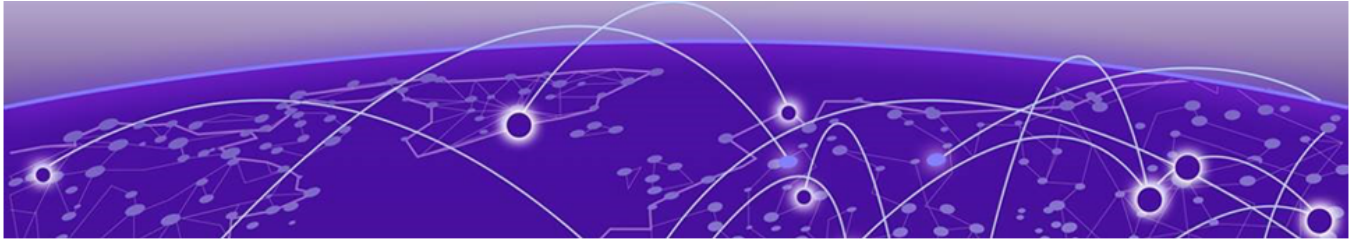
Warning

Message Text

EPM was likely not running for `%secs%` seconds. Will take adjust actions

Message Parameters

Name	Type
secs	uInt



EPM.Upgrade Messages

EPM.Upgrade.DnldImg on page 1204
EPM.Upgrade.DnldImgExtMem on page 1205
EPM.Upgrade.Fail on page 1205
EPM.Upgrade.State on page 1206
EPM.Upgrade.NVRAMFail on page 1206
EPM.Upgrade.GetFile on page 1207
EPM.Upgrade.ReqUnk on page 1208
EPM.Upgrade.Strt on page 1208

EPM.Upgrade.DnldImg

Description

Downloading the specified filename image from the specified hostname at the specified IP address

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

User `%user%`: Download image from hostname `%hostname%` ip address `%ipaddress%` file name `%filename%` VR `%vrname%`

Message Parameters

Name	Type
hostname	String
ipaddress	String

Name	Type
filename	String
vrname	String
user	AccountName

EPM.Upgrade.DnldImgExtMem

Description

Downloading the specified filename image from the specified file in the external memory card

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

User `%user%`: Download image from file name `%filename%`

Message Parameters

Name	Type
filename	String
user	AccountName

EPM.Upgrade.Fail

Description

Upgrade procedure failed.

Remedy

Two partitions are available for image storage. Trey using the partition alternate to the one on which the upgrade failed. Exact remedy depends on the specific error.

Severity

Error

Message Text

Upgrade failed, `%error%`

Message Parameters

Name	Type
error	String

EPM.Upgrade.State

Description

Reporting status of upgrade

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Warning

Message Text

Upgrade status `%status%`

Message Parameters

Name	Type
status	String

EPM.Upgrade.NVRAMFail

Description

The specified NVRAM operation was not successful.

Remedy

change MSM

Severity

Error

Message Text

Upgrade NVRAM `%action%` of boot info failed with error `%error%`

Message Parameters

Name	Type
action	String
error	sInt

EPM.Upgrade.GetFile

Description

TFTP Get is being invoked to download the named file.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Getting `%filename%` using TFTP.

Message Parameters

Name	Type
filename	String

EPM.Upgrade.ReqUnk

Description

The upgrade manager library request code value (UML_REQUEST_*) is not handled by a select case in the callback function.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Unknown request (`%request%`) from installer.

Message Parameters

Name	Type
request	uInt

EPM.Upgrade.Strt

Description

Image upgrade has started. Internal upgrade timer has started to make sure upgrade finishes within a pre-defined time period.

Remedy

No action required - Notification message only.

Severity

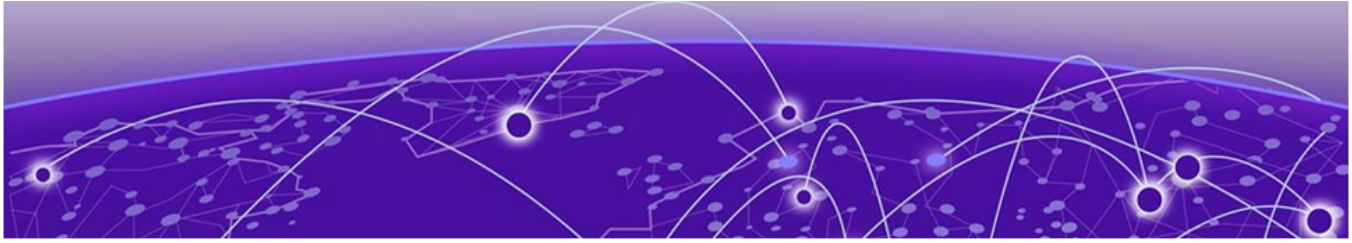
Notice

Message Text

User `%user%`: Image upgrade has started.

Message Parameters

Name	Type
user	AccountName



EPM.UploadEngr Messages

EPM.UploadEngr.Command on page 1210
EPM.UploadEngr.Fail on page 1210

EPM.UploadEngr.Command

Description

Upload Engineering to the specified hostname or ipaddress.

Remedy

This is an notification only. No remedy is needed

Severity

Notice

Message Text

Upload Engineering to hostname `%hostname%` ip address `%ipaddress%` VR `%vrname%`

Message Parameters

Name	Type
hostname	String
ipaddress	String
vrname	String

EPM.UploadEngr.Fail

Description

An error was been detected that caused upload engineering to fail.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by trying with the correct hostname or ipaddress associated the correct VR name.

Severity

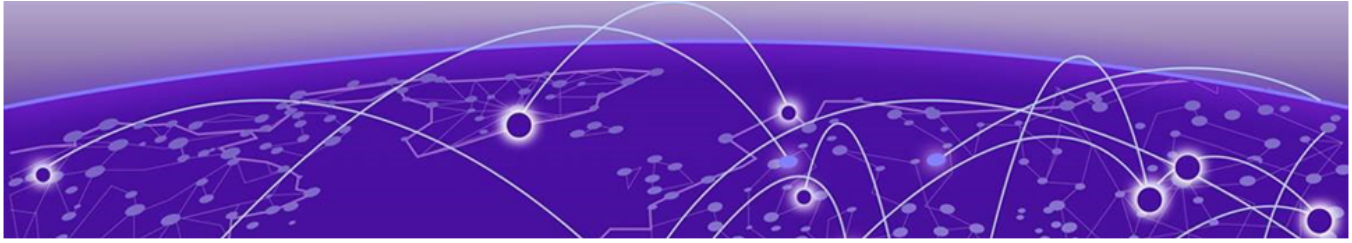
Error

Message Text

Upload Engineering failed. `%reason%`

Message Parameters

Name	Type
reason	String



EPM.Version Messages

EPM.Version.oom on page 1212
EPM.Version.vers_scan on page 1213
EPM.Version.vers_weight on page 1213
EPM.Version.dep_file_err on page 1214
EPM.Version.dep_load on page 1214
EPM.Version.proc_unknwn on page 1215
EPM.Version.vers_check_dep on page 1215
EPM.Version.vers_chckstate on page 1216
EPM.Version.vers_exact on page 1216
EPM.Version.vers_range on page 1217
EPM.Version.vers_minplus on page 1218
EPM.Version.vers_uptomax on page 1218

EPM.Version.oom

Description

Not enough resources

Remedy

Reboot the node

Severity

Error

Message Text

Can not allocate memory

EPM.Version.vers_scan

Description

reads version of process

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Version is `%major%.%minor%.%patch%.%build%`

Message Parameters

Name	Type
major	uInt
minor	uInt
patch	uInt
build	uInt

EPM.Version.vers_weight

Description

determines version weight

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Version Weight is `%value%`

Message Parameters

Name	Type
value	uInt

EPM.Version.dep_file_err

Description

Can not open dependency file

Remedy

install new, valid package

Severity

Warning

Message Text

Can not open file `%fname%`

Message Parameters

Name	Type
fname	String

EPM.Version.dep_load

Description

Using dependency file for dependency checking

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

Loading dependencies from the `%fname%`

Message Parameters

Name	Type
fname	String

EPM.Version.proc_unknwn

Description

Unknown process in the dependency file.

Remedy

Process names should match with processes in epmrc configuration file

Severity

Error

Message Text

Unknown process `%name%`

Message Parameters

Name	Type
name	String

EPM.Version.vers_check_dep

Description

Creation of process dependency graph

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Process `%name%` depends on process `%prereq%`

Message Parameters

Name	Type
name	String
prereq	String

EPM.Version.vers_chckstate

Description

process state check failed

Remedy

Restart the process

Severity

Warning

Message Text

Process `%name%` is not in running state, current state `%state%`

Message Parameters

Name	Type
name	String
state	uInt

EPM.Version.vers_exact

Description

dependecy check success

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

Found exact version of prerequisite process `%prereq%` for process `%name%`

Message Parameters

Name	Type
name	String
prereq	String

EPM.Version.vers_range

Description

dependecy check success

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

Process `%name%` matches range of versions of prerequisite process `%prereq%`

Message Parameters

Name	Type
name	String
prereq	String

EPM.Version.vers_minplus

Description

dependecy check success

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

Process `%name%` matches minimum plus version of prerequisite process `%prereq%`

Message Parameters

Name	Type
name	String
prereq	String

EPM.Version.vers_uptomax

Description

dependecy check success

Remedy

There is no remedy because there is no problem to be resolved.

Severity

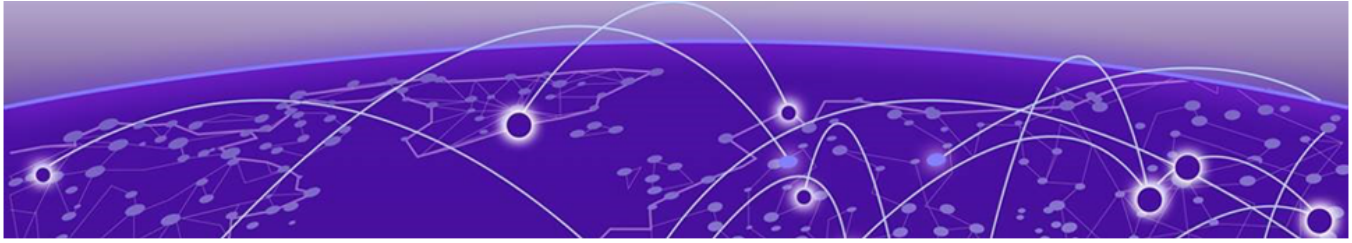
Info

Message Text

Process `%name%` matches up to maximum version of prerequisite process `%prereq%`

Message Parameters

Name	Type
name	String
prereq	String



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ERPS.DebugSummary

Description

ERPS Debug message displayed when user wishes to view basic debug information.

Remedy

No action required - Informational message only

Severity

Debug-Summary

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

ERPS.RxPkt

Description

Event occurs when a packet received, from an external ERPS source, on the specified port is enqueued in the CRU buffer

Remedy

No action required - Informational message only

Severity

Debug-Data

Message Text

Incoming packet from port `%slotport%` with data `%ptr%` and length of `%len%` bytes

Message Parameters

Name	Type
slotport	ingressSlotPort
ptr	Buf-ptr
len	Buf-len

ERPS.PortState

Description

Request sent to change the port state to the VLAN manager. The port state is now set to the new state.

Remedy

No action required - Notification message only

Severity

Debug-Data

Message Text

Port %slot%:%port% VLAN %vlanId% %context% oldState 0x%oldState% newState 0x%newState%

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vlanId	VLAN-tag
context	String
oldState	xInt32
newState	xInt32

ERPS.SendMsgVLANMgrOK

Description

Successfully sent message to the VLAN manager on having the port states set correctly for the given VLAN port interfaces.

Remedy

No action required - Notification message only

Severity

Debug-Data

Message Text

%context% count=%counter%

Message Parameters

Name	Type
context	String
counter	uInt32

ERPS.SendMsgFDBFloodOK

Description

Flood message sent successfully to the FDB manager to flood traffic on the ring ports.

Remedy

No action required - Notification message only

Severity

Debug-Data

Message Text

`%context%` #Ports `%num%`

Message Parameters

Name	Type
context	String
num	uInt32

ERPS.SendMsgFDBFlushOK

Description

Message sent to the FDB manager to flush the VLAN port interfaces for the ring port

Remedy

No action required - Notification message only

Severity

Debug-Data

Message Text

`%context%` Port `%slot%:%port%` #VLANs `%num%`

Message Parameters

Name	Type
context	String
slot	uInt32
port	uInt32
num	uInt32

ERPS.AllocDataVLANFail

Description

Malloc for adding a data VLAN to the ERPS ring failed

Remedy

Collect data using the 'show memory' and 'show process erps' CLI commands. Collect memory statistics before reporting it to technical support. Reduce the scaling limits.

Severity

Error

Message Text

Memory allocation for Data VLAN `%vlan%` failed

Message Parameters

Name	Type
vlan	String

ERPS.AllocCRUBufFail

Description

Could not enqueue message PDUs as the memory allocation of CRU buffer failed.

Remedy

Collect data from the 'show memory' and 'show process erps' CLI commands. Check the memory usage of the system before and after issuing a 'disable erps' command. Restart/reboot of the switch may be necessary. If the problem persists, then this is an

unexpected internal condition needing technical assistance. Contact technical support with the information obtained

Severity

Error

Message Text

Memory allocation for CRU buffer failed for ring: `%ring%`

Message Parameters

Name	Type
ring	String

ERPS.InitModFail

Description

Event occurs as the ERPS protocol stack failed to be initialized

Remedy

Collect data from 'show process erps' CLI command. Check to see if the process is in ready state. If the problem persists, this is an unexpected internal condition needing technical assistance. Contact technical support with the information obtained

Severity

Critical

Message Text

Initializing ERPS protocol module unsuccessful

ERPS.PreAllocFailNoAckIndx

Description

Could not pre-allocate memory to to set up the data for Acks coming from VLAN manager. Memory is allocated corresponding to indices. The condition fails as there were no unoccupied ack indices available.

Remedy

Collect data from the 'show memory' and 'show process' CLI commands. Check the memory usage of the system and check if the process is in ready state and then contact technical support

Severity

Critical

Message Text

Pre-allocation of memory to set up acknowledgement data failed because index was not available

ERPS.AllocRingFail

Description

Malloc failed while adding sub-ring to the main ring

Remedy

Delete one or more sub-rings from the main-ring. Collect data from the 'show memory' and 'show process erps' CLI commands. Check the memory usage of the system

Severity

Error

Message Text

Memory allocation failed for ring `%ring%`

Message Parameters

Name	Type
ring	String

ERPS.AllocAsyncCntxtFail

Description

Malloc failed while trying to allocate the Async context needed for setting the port states

Remedy

Collect data from the 'show memory' and 'show process' CLI commands. Check the memory usage of the system and then contact technical support

Severity

Error

Message Text

Memory allocation failed while trying to set the port interface state

ERPS.AllocFDBInfoFail

Description

Memory could not be allocated to send a message to FDB manager to flush the VLAN port interfaces for the ring port

Remedy

Collect data from the 'show memory' and 'show process' CLI commands. Check the memory usage of the system and then reboot

Severity

Error

Message Text

Memory allocation for FDB info failed

ERPS.AllocVLANMsgFail

Description

Message could not be created to be sent to VLAN to set port states

Remedy

Collect data from the 'show memory' and 'show process' CLI commands. Check the memory usage of the system and then reboot

Severity

Error

Message Text

VLAN message creation failed. System out of memory

ERPS.DelSubRingFail

Description

Invalid sub-ring found for the main-ring

Remedy

Collect output from 'show erps' and 'show erps <ring>' CLI. 'disable erps <ring>'. Check if the ring to be added is a sub-ring and the ring to which the sub-ring needs to be added is configured as main ring. Use valid ring names

Severity

Error

Message Text

Deleting sub-ring `%sring%` from main ring `%ring%` failed

Message Parameters

Name	Type
sring	String
ring	String

ERPS.UnregVLANMgrNullParm

Description

Call back from VLAN manager to de-register failed due to null value of the ring pointer as input

Remedy

Collect output from 'show erps' CLI and check the validity of the ring. Use a valid ring and if the problem persists, it would be a software fault. Contact technical support

Severity

Error

Message Text

De-registration from VLAN manager failed

ERPS.RegVLANMgrNullParm

Description

Callback received from VLAN manager to register failed due to null value of ring pointer as input

Remedy

Collect output from 'show erps' CLI and check validity of the ring and the VLAN. Check validity of the ring and ring parameters using 'show erps <ring>'. If the problem persists, then this is an unexpected internal condition needing technical assistance.

Severity

Error

Message Text

Registration with VLAN manager failed. Invalid input

ERPS.RegVLANPortFail

Description

Could not register VLAN port interface with VLAN manager when a hardware call to create a ring is received. As a result, port blocking/unblocking function into EXOS is not called.

Remedy

Collect output from 'show erps <ring>' CLI and check validity of the port and VLAN instance configured on the ring. use 'show port <port>' CLI to obtain port statistics. Use a valid port configured on a valid VLAN

Severity

Error

Message Text

VLAN Manager failed to register VLAN port interface for VLAN `%vlan%` and port `%slot%:%port%`

Message Parameters

Name	Type
vlan	String
slot	uInt32
port	uInt32

ERPS.RegProtoIfFail

Description

Could not register protocol interface with VLAN manager on the VLAN port interface when a call back is received from VLAN.

Remedy

'show process erps' and check if the process is in ready state. Collect output from 'show erps' command and validate the ring port and VLAN information for the specific ring. If problem persists issue a 'disable erps' and then 'enable erps'.

Severity

Error

Message Text

VLAN Manager failed to register protocol for port `%slot%:%port%`

Message Parameters

Name	Type
port	uInt32
slot	uInt32

ERPS.UnregVLANPortByHwIdFail

Description

Could not deregister VLAN port interface from VLAN manager when a ring delete message is received in the hardware. During a ring delete, all the VLAN port interfaces associated with the ring need to be de-registered from the VLAN manager

Remedy

Using 'show process erps' check the status of the protocol. Collect output from 'show erps <ring>' command and validate the ring port and VLAN information.

Severity

Error

Message Text

Failed to de-register VLAN port interfaces from VLAN manager for the ring port with index `%portIdx%` VLAN Id `%vlanId%` ring `%ring%`

Message Parameters

Name	Type
portIdx	uInt32
vlanId	uInt32
ring	String

ERPS.UnregProtoIfFail

Description

Could not de-register protocol from VLAN manager on the VLAN port interface when a call back is received.

Remedy

'show process erps' to check the status of the protocol. Validate the ports associated with the ring using 'show erps' command

Severity

Error

Message Text

VLAN Manager failed to register protocol for port `%slot%:%port%`

Message Parameters

Name	Type
port	uInt32
slot	uInt32

ERPS.SetVLANPortStateParmInv

Description

Could not set the VLAN port interface state to either block or unblock as the VLAN port interface was NULL.

Remedy

Check validity of the port and VLAN instance configured on the ring using the 'show erps' command

Severity

Error

Message Text

Invalid input while setting VLAN-port interface state `%vpif%`

Message Parameters

Name	Type
vpif	uInt32

ERPS.SetVLANPortStateFail

Description

Event occurs when an update to VLAN in ring fails. The VLAN port interface states based on ring states are not set.

Remedy

Collect information from 'show memory' command. Validate the switch for enough memory. The problem may be caused due to an error sending IPML messages; reboot switch in that case.

Severity

Error

Message Text

Error while setting VLAN-port state VLAN `%vlan%` port `%port%:%slot%`

Message Parameters

Name	Type
vlan	String
port	uInt32
slot	uInt32

ERPS.EnblModFail

Description

The ERPS module could not be enabled while the protocol stack was being initialized. The protocol stack received a create event for the ERPS module, which returned a failure. The module was not put into the ACTIVE state.

Remedy

Check the amount of memory being used using 'show memory'. Check the corresponding protocol and the state of the protocol using 'show process erps' command

Severity

Critical

Message Text

Enabling ERPS module failed

ERPS.EnblSysCtrlFail

Description

Enabling the protocol stack system control status failed. The protocol is in shutdown mode. ERPS module does not function as a result.

Remedy

Collect information from 'show process' command. Note the amount of memory being used using 'show memory' command and report to technical support.

Severity

Critical

Message Text

ERPS_START system control failed

ERPS.PortNotFnd

Description

Event occurs when VLAN manager API to find port interface index using the slot:port returned a failure.

Remedy

Check ring ports using 'show erps <ring>' and 'show port statistics' command. Specify a valid port

Severity

Error

Message Text

Failed to find port interface for port `%slot%:%port%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32

ERPS.DataVLANNotFnd

Description

Event occurs when data VLAN is not configured for the ring.

Remedy

Configure a valid VLAN as the data VLAN for the ring. If data VLAN already present, delete the VLAN from the ring and add it again

Severity

Error

Message Text

Failed to find data VLAN for ring `%ring%`

Message Parameters

Name	Type
ring	String

ERPS.AddFDBFiltFailInvVLAN

Description

Not able to successfully enter the FDB entry for an invalid VLAN. FDB filter action failed for the control VLAN

Remedy

Collect information from show erps <ring>' and 'show fdb <vlan>' command and validate the VLAN entry

Severity

Error

Message Text

FDB entry failed due to invalid VLAN. error status `%status%` VLAN `%vlan%`

Message Parameters

Name	Type
vlan	String
status	uInt32

ERPS.SetPortCfgFail

Description

Port not configured as an ERPS ring port because IPML message could not be sent to VLAN manager

Remedy

'show port <port>' is used to validate the port. The event may be caused due to memory not allocated or IPML message failure sending to VLAN manager.

Severity

Error

Message Text

Setting the port `%port%` as an ERPS ring port failed.

Message Parameters

Name	Type
port	uInt32

ERPS.AddCtrlVLANFiltFail

Description

Received error when trying to add the MAC filter and FDB entry to the control VLAN. The RAPS PDU dstMAC filter could not be added to HW

Remedy

Check the VLAN parameters configured on the ring using 'show erps <ring>' and 'show vlan <vlan>' commands

Severity

Error

Message Text

Error adding control VLAN `%vlan%` destination MAC filter

Message Parameters

Name	Type
vlan	String

ERPS.DelCtrlVLANFiltFail

Description

Received an error deleting the MAC filter and FDB entry associated with the control VLAN. RAPS PDU dstMAC filter could not be deleted from HW

Remedy

Check the VLAN parameters configured on the ring using 'show erps <ring>' and ''show vlan <vlan>'' commands

Severity

Error

Message Text

Error deleting control VLAN `%vlan%` destination MAC filter

Message Parameters

Name	Type
vlan	String

ERPS.SendPortStateMsgFail

Description

VLAN manager failed to set the port state. Message not sent to VLAN manager to set port interface states contained for the VLAN

Remedy

Check ingress and egress port states using 'show port' and 'show port statistics' commands. Check the associated link state to be UP.

Severity

Error

Message Text

Could not send vpst state msg to VLAN manager for vlanId `%vlanId%`, port `%slot%:%port%`

Message Parameters

Name	Type
vlanId	uInt32
slot	uInt16
port	uInt16

ERPS.PortNotFndByIndx

Description

Port interface not found using port indices. VLAN port interface states not set correctly

Remedy

Validate info using 'show vlan <vlan>' command and check the ports added to the VLAN

Severity

Error

Message Text

Ring port interface not found for the corresponding port index `%portindex%`

Message Parameters

Name	Type
portindex	uInt32

ERPS.RecvNullFlushInfo

Description

Flush information NULL. FDB flush operation not performed for the ring.

Remedy

Check the interconnected nodes neighboring nodes in the ring to be functional. Use 'show erps <ring>' command

Severity

Error

Message Text

Null Flush information received for ring context `%context%`

Message Parameters

Name	Type
context	uInt32

ERPS.RingParmNull

Description

The ring pointer passed to the function is NULL. Ring information could not be accessed.

Remedy

Use 'show erps' command to get a list of rings configured. Use a valid ring. See if the number of rings configured does not exceed the permissible limit. If the problem persists, then this is an unexpected internal condition needing technical assistance. Contact technical support with the information obtained

Severity

Error

Message Text

Ring Parameter Null.

ERPS.AttachRingCntxtFail

Description

Ring context not attached. The hardware ring configuration, as a result, fails

Remedy

Check the ring that is being passed using 'show erps <ring>' command. Validate the ring. If problem occurs again, report to technical support as a software fault.

Severity

Error

Message Text

Failed to attach the ring context. Null ring pointer for ring Id `%ringId%` context`%context%`

Message Parameters

Name	Type
ringId	uInt32
context	uInt32

ERPS.PortNotFndByPortInstc

Description

VLAN manager function returned a NULL port interface for port instance

Remedy

Check if the port Id is valid. Use 'show erps <ring>' and 'show port <port>' to validate the port configured

Severity

Error

Message Text

Port interface not found for port instance `%instance%`

Message Parameters

Name	Type
instance	uInt32

ERPS.VLANIfNotFnd

Description

VLAN manager API call returned a failure on searching for a VLAN interface corresponding to the VLAN instance

Remedy

collect output from 'show erps' and 'show vlan detail' and report it to the network admin

Severity

Error

Message Text

VLAN interface not found for VLAN instance `%VLANIns%`

Message Parameters

Name	Type
VLANIns	uInt32

ERPS.VLANPortIfNull

Description

Request to change port state not successful as ERPS ring port was not part of member VLAN.

Remedy

Use commands 'show VLAN <vlan>' 'show port <port>' and 'show erps' to validate the VLAN and port being used. Ring port should be added to each ERPS VLAN

Severity

Warning

Message Text

Ring port `%port%` of ring `%ring%` not found on VLAN `%vlan%`

Message Parameters

Name	Type
ring	String
port	String
vlan	String

ERPS.PortStateInv

Description

ERPS module not notified about a link state change

Remedy

Check status of the port interface if it is LINKUP or LINKDOWN using 'show port <port>' command

Severity

Error

Message Text

Invalid port status `%portStatus%` for port `%port%`

Message Parameters

Name	Type
port	String
portStatus	uInt32

ERPS.SetVLANTagFail

Description

Received a call back from VLAN manager to change the tag of a VLAN. The operation was unsuccessful.

Remedy

Check the staus of the VLAN using 'show vlan <vlan>' command. Use a valid tag.

Severity

Error

Message Text

Could not set the tag for VLAN `%vlan%`

Message Parameters

Name	Type
vlan	String

ERPS.CreatNETTxSockFail

Description

Creation of the socket used for interfacing to netTx failed.

Remedy

Using show port statistics command, ensure that the ports are in the correct state.
Check memory usage using 'show memory' before switch reboot

Severity

Error

Message Text

Failed to create raw socket for netTx. return code `%code%`

Message Parameters

Name	Type
code	uInt32

ERPS.UpdtVLANPortStateFail

Description

ERPS module not notified about a VLAN port interface change

Remedy

Check ring parameters using 'show erps <ring>' and the VLAN parameters using 'show vlan <vlan>' commands

Severity

Error

Message Text

Data VLAN `%vlan%` ports' states not updated for ring `%ring%`

Message Parameters

Name	Type
vlan	String
ring	String

ERPS.UncfgRingPortFail

Description

The port is not part of an ERPS ring any more. Message sent to VLAN manager to indicate that the port is not part of an ERPS ring, failed.

Remedy

Check port parameters validity using 'show port <port>' command

Severity

Error

Message Text

Unconfiguring ring port `%port%` failed

Message Parameters

Name	Type
port	uInt32

ERPS.NtfyMcastMgrFail

Description

MC manager module not notified about a port state change to flush multi-cast cache and send IGMP query

Remedy

Check the VLAN and ring port parameters using 'show erps <ring>' command

Severity

Error

Message Text

Multicast manager could not be notified for context `%context%`

Message Parameters

Name	Type
context	uInt32

ERPS.SetPortFailNullCntxt

Description

The ring context could not be found

Remedy

Check the ring value using show erps command before rebooting switch

Severity

Error

Message Text

Could not set port state. Ring null context received for ring `%ring%`

Message Parameters

Name	Type
ring	String

ERPS.UpdtVLANFailNullCntxt

Description

The ring context could not be found

Remedy

Check the ring parameters and VLAN using 'show erps <ring>' before rebooting switch

Severity

Error

Message Text

Could not set VLAN `%vlan%` port interface state. Ring null context received for ring `%ring%`

Message Parameters

Name	Type
vlan	uInt32
ring	uInt32

ERPS.UnblkPortByVLANIdFail

Description

The port could not be located on the VLAN for the given port index

Remedy

Use command 'show vlan <vlan>' and 'show port <port>' and show erps to validate the VLAN and port parameters. Make sure a valid port and VLAN is used.

Severity

Error

Message Text

Could not set VLAN Id `%vlan%` port `%port%` state to Unblock

Message Parameters

Name	Type
port	uInt32
vlan	uInt32

ERPS.BlkPortByVLANIdFail

Description

The port could not be located on the VLAN for the given port index

Remedy

Use command 'show vlan <vlan>' and 'show port <port>' and 'show erps' to validate the VLAN and port parameters. Make sure a valid port and VLAN is used.

Severity

Error

Message Text

Could not set VLAN Id `%vlan%` port `%port%` state to block

Message Parameters

Name	Type
port	uInt32
vlan	uInt32

ERPS.UnblkPortByGrpIdFail

Description

The port could not be located on the VLAN for the given port index

Remedy

Check VLAN using 'show vlan <vlan>' and the port statistics using 'show port <port>'

Severity

Error

Message Text

Could not set VLANs (part of group `%grp%`) port `%port%` state to Unblock

Message Parameters

Name	Type
port	uInt32
grp	uInt32

ERPS.BlkPortByGrpIdFail

Description

The port could not be located on the VLAN for the given port index

Remedy

Use command 'show vlan <vlan>' and 'show port <port>' and show erps to validate the VLAN and port parameters. Make sure a valid port and VLAN is used.

Severity

Error

Message Text

Could not set VLANs (part of group `%grp%`) port `%port%` state to block

Message Parameters

Name	Type
port	uInt32
grp	uInt32

ERPS.CreatRingFail

Description

Ring could not be created because of low memory or maximum number of ring instances reached

Remedy

Check the number of ring instances created using 'show erps' command. Delete one or more ring instances. Also use 'show memory' command to see if the system has enough memory to allocate.

Severity

Error

Message Text

Ring `%ring%` could not be created

Message Parameters

Name	Type
ring	String

ERPS.RingNotFnd

Description

The binary tree search returned a null on search by ring name

Remedy

Search for a valid ring instance. 'show erps' command lists the valid rings configured on the switch

Severity

Error

Message Text

Ring `%ring%` could not be found

Message Parameters

Name	Type
ring	String

ERPS.MaxNumRingInstcExcd

Description

Maximum number of ring instances exceeded. Ring not created.

Remedy

Delete one or more ring instances. 'show erps' displays the number of ring instances configured on the switch

Severity

Error

Message Text

Ring instance `%ringIns%` exceeds the maximum number permissible

Message Parameters

Name	Type
ringIns	uInt32

ERPS.MEPInstcNotFnd

Description

Received null MEP instance for MEP id. MEP id did not match the MEP id of the east, west or virtual channel MEP

Remedy

Check the MEP Id configured for the ring using 'show erps <ring>'. 'show cfm <domain>' lists the CFM parameters configured for that domain. Configure valid CFM parameters for the ring

Severity

Error

Message Text

MEP instance not found for mep ID `%mep%` ring `%ring%`

Message Parameters

Name	Type
mep	uInt32
ring	String

ERPS.AddSubRingFailMaxExcd

Description

Maximum number of sub ring instances added to the ring, can not add more

Remedy

Delete one or more sub-ring instances attached to the ring

Severity

Error

Message Text

Maximum number of sub-rings exceeded for ring `%ring%`

Message Parameters

Name	Type
ring	String

ERPS.MEPObjNotFnd

Description

No MEP object found corresponding to a port on the ring. MEP not configured for the ring

Remedy

Use 'show erps <ring>' and 'show cfm <domain>' commands. Check ring CFM parameters, port values and control VLAN. Configure CFM parameters for the ring containing valid ring ports.

Severity

Warning

Message Text

No MEP object exists for ring: `%ring%` in-port: `%slot%:%port%` vlanInst: `%vlanInst%`

Message Parameters

Name	Type
ring	String
slot	uInt32
port	uInt32
vlanInst	uInt32

ERPS.SendRingPortCfgFail

Description

Port is not configured as part of any ERPS ring. The info could not be sent to the VLAN Mgr

Remedy

Check the ring port statistics using the 'show port <port>' and 'show port <port>' statistics commands. Check VLAN port interface states

Severity

Warning

Message Text

Could not send mesage to VLAN manager to inform port with index `%index%` config change for ring `%ring%`

Message Parameters

Name	Type
index	uInt32
ring	String

ERPS.SendVLANMgrMsgFail

Description

Message was not sent for the VLAN group to change port states

Remedy

Check VLAN port interface states. Collect output from 'show port <port>' and 'show vlan <vlan>' commands and report it to technical support

Severity

Warning

Message Text

Could not send mesage to VLAN manager for #vlans `%num%`

Message Parameters

Name	Type
num	uInt32

ERPS.DelCtrlVLANFail

Description

Control VLAN can not be deleted when ring is in ACTIVE state

Remedy

Disable ring to delete VLAN. Check ring status using 'show erps <ring>' command.

Severity

Warning

Message Text

Delete control VLAN for ring `%ring%` VLAN:`%vlan%`

Message Parameters

Name	Type
ring	String
vlan	String

ERPS.AddDataVLANFail

Description

Data VLAN can not be deleted as the registration with VLAN manager failed.

Remedy

'show erps <ring>' 'show vlan <vlan>' Check validity of ring parameters and VLAN parameters.

Severity

Warning

Message Text

Add data VLAN `%vlan%` to ring `%ring%` failed

Message Parameters

Name	Type
vlan	String
ring	String

ERPS.IncrsTxBufSizNETTxFail

Description

Failed to increase the netTx transmit buffer size to IM.

Remedy

Check memory usage using 'show memory' command before switch reboot

Severity

Warning

Message Text

Transmit buffer size increase for netTx failed. return code `%sockId%`

Message Parameters

Name	Type
sockId	uInt32

ERPS.IncrsRxBufSizNETTxFail

Description

Failed to increase the netTx receive buffer size to IM.

Remedy

Check memory usage using 'show memory' command before switch reboot

Severity

Warning

Message Text

Receive buffer size increase for netTx failed. return code `%sockId%`

Message Parameters

Name	Type
sockId	uInt32

ERPS.RecvPktFailSockRxTmout

Description

Failed receive the packet and therefore connection to the netTx services to get BPDUs to/from kernel failed.

Remedy

Use 'show port <port> statistics' and 'show erps <ring>' statistics commands to determine the cause of the time out. Collect the data before reporting to the network admin

Severity

Warning

Message Text

Failed to receive a packet due to a socket connection time out. return code: `%sockId%`

Message Parameters

Name	Type
sockId	uInt32

ERPS.NoAckRingPortFail

Description

Could not set up the data for acks coming from VLAN manager. Could not set the port in the unblocked state

Remedy

Check the previous states of the port and the port index values

Severity

Warning

Message Text

Acknowledgement not setup for ports belonging to ring `%ring%`

Message Parameters

Name	Type
ring	String

ERPS.SetPortStateNoGrpIdAck

Description

Ack not set up, hence the VLAN ports state not set correctly.

Remedy

Check the previous VLAN port interface states and the port index values

Severity

Warning

Message Text

Acknowledgement not setup for VLAN group Id `%grp%` having #vlans: `%numvlan%` for the west port for ring `%ring%`

Message Parameters

Name	Type
grp	uInt32
numvlan	uInt32
ring	String

ERPS.SetRingPortStateFail

Description

Port states could not be set correctly

Remedy

Check the ring parameters using show erps <ring>' commands. Validate the VLAN configuration on the ring.

Severity

Warning

Message Text

Ring port state not set action `%action%` port `%port%`

Message Parameters

Name	Type
port	uInt32
action	uInt32

ERPS.RingIdGrpIdMismatch

Description

Port states could not be set correctly due to a ring Id and group Id mismatch

Remedy

use 'show erps' command to determine a valid ring being used. This is a software defect. Contact the technical support

Severity

Warning

Message Text

Ring Id `%ringId%` does not match VLAN group Id `%grpId%`

Message Parameters

Name	Type
ringId	uInt32
grpId	uInt32

ERPS.CtrlVLANNotFnd

Description

Control VLAN has not been configured for the ring. Event occurs during configuration of MEP as it could not be configured for the ring.

Remedy

Configure a valid VLAN as control VLAN for the ring

Severity

Warning

Message Text

Control VLAN not found for ring `%ring%`

Message Parameters

Name	Type
ring	String

ERPS.UnregVLANPortIfFail

Description

While deleting the data VLAN from the ring, the VLAN port interface could not be de-registered from VLAN manager

Remedy

Check the VLAN port interface. Use 'show vlan <vlan>' commands

Severity

Warning

Message Text

De-Registering VLAN `%vlan%` port `%slot%:%port%` failed

Message Parameters

Name	Type
vlan	String
slot	uInt32
port	uInt32

ERPS.DelDataVLANFail

Description

Event occurs when a failure is encountered while data VLAN is deleted from the ring.

Remedy

Check the VLANs associated with the ring and the VLAN/ring parameters using 'show vlan <vlan>' and 'show erps <ring>' parameters

Severity

Warning

Message Text

Unable to delete data VLAN `%vlan%` from ring `%ring%`

Message Parameters

Name	Type
vlan	String
ring	String

ERPS.VLANApplInfoNotNull

Description

Could not malloc application specific data information for the VLAN

Remedy

Check the VLAN information using the 'show vlan <vlan>' detail command

Severity

Warning

Message Text

The VLAN `%vlan%` information specific to the ring was not NULL

Message Parameters

Name	Type
vlan	String

ERPS.LrnRmtMEP

Description

A new remote MEP is learnt by the MEP. This may result due to a new MEP being configured in the ring or one of the neighboring MEP going down

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

MEP Id `%mepId%` sees `%rmepnum%` remote MEPS on port. Remote MEP id `%rmepId%` learned.

Message Parameters

Name	Type
mepId	uInt32
rmepnum	uInt32
rmepId	uInt32

ERPS.RmtMEPCntUndfl

Description

The neighboring remote MEP is down. The remote MEP count reached below zero, hence the event occurs and the count is reverted to zero until a new remote MEP is learnt

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

MEP Id `%mepId%` remote MEP count `%rmepnum%` decremented, setting remote MEP count to zero.

Message Parameters

Name	Type
mepId	uInt32
rmepnum	uInt32

ERPS.CreatCFMMEPAllOK

Description

MEP created successfully for the ring

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Success acknowledgement for all MEP creation

ERPS.DelCFMMEPAllOK

Description

CFM unconfigured for ring

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Success acknowledgement for all MEP deletion

ERPS.CreatCFMAssocAckOK

Description

Maintenance associated created successfully for CFM

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Acknowledgement for CFM association creation

ERPS.CreatCFMDomainAckOK

Description

Maintenance domain created successfully for the ERPS ring

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Acknowledgement for CFM domain creation

ERPS.SendMEPInfo

Description

MEP info sent successfully

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

MDLevel:`%md%` MA:`%ma%` MEPId:`%mepId%` port:`%port%` mepType:`%type%` Instance:`%mepIns%` mep->msgOpcode:`%opcode%`

Message Parameters

Name	Type
md	uInt32
ma	String
mepId	uInt32
port	uInt32
type	uInt32
mepIns	uInt32
opcode	uInt32

ERPS.RxRmtMEPInfo

Description

Received CCM messages from a remote MEP which was learnt

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received remote MEP status for MEP Id `%mepId%` Remote MEP Id `%rmepId%` remote MEP UP `%rmepUp%` CCMDefect `%ccmDef%` Remote domain Defect `%RDID%` Connection CCM defect `%connDef%` Error CCM Defect `%errCCMDef%`

Message Parameters

Name	Type
mepId	uInt32
rmepId	uInt32
rmepUp	uInt32
ccmDef	uInt32
RDID	uInt32
connDef	uInt32
errCCMDef	uInt32

ERPS.RxMEPState

Description

Successfully received information regarding local MEP status

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received MEP status for MEP Id `%mepId%` Remote MEP Id `%rmepId%` Ring instance `%ringIns%` Signal Fail `%SF%` New Signal Fail `%newSF%`

Message Parameters

Name	Type
mepId	uInt32
rmepId	uInt32
ringIns	uInt32
SF	uInt32
newSF	uInt32

ERPS.AddSubRing

Description

Successfully added a sub-ring to the main ring at the inter connected nodes

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Sub-ring `%sring%` added to the main ring `%ring%`

Message Parameters

Name	Type
sring	String
ring	String

ERPS.RecvCFMSrvrAckInfo

Description

Received an ACK from the CFM server during connection establishment

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Acknowledgement received from CFM server after handling a client configuration request. opcode `%opcode%` ack status `%status%` MEP Id `%mep%`

Message Parameters

Name	Type
opcode	uInt32
status	uInt32
mep	uInt32

ERPS.UpdtRingPortOK

Description

Successfully updated the ring port status upon receiving an ACK from VLAN manager to place a port in block/forward state

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Ring port status updated context `%context%` ring `%ring%` portIndex `%portIdx%`, Update: `%updt%`

Message Parameters

Name	Type
context	uInt32
ring	String
portIdx	uInt32
updt	uInt16

ERPS.InitReadWritLockFail

Description

Initializing the thread failed. Device manager not connected as a result

Remedy

The message is displayed because the thread started to initialize services failed. Check if ERPS process is in the ready state using 'show process' command. This is an unexpected internal condition needing technical assistance.

Severity

Critical

Message Text

ERPS cannot initialize the rwlock

ERPS.EnableFail

Description

The ERPS ring could not be enabled. The specific reason will be included in the log message.

Remedy

The reason identified in the log will describe, in sufficient detail, why the ring could not be enabled. Please correct the error condition, and then, issue the CLI command "enable ring [ring-name]" again.

Severity

Error

Message Text

Failed to enable ring `%ring%` during load config. `%reason%`

Message Parameters

Name	Type
ring	String
reason	String

ERPS.DebugVerbose

Description

ERPS Debug message displayed when user wishes to view verbose debug information.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

`%logMsg%`

Message Parameters

Name	Type
logMsg	Printf

ERPS.AddMEPFailMaxExcd

Description

Maximum number of Maintenance End Points added for this platform, can not add more. Since the MEP is tied to a ring, the ring must be disabled if the MEP cannot be installed.

Remedy

Delete one or more rings, or delete one or more Maintenance End Points so another can be added.

Severity

Error

Message Text

Maximum number of Maintenance End Points exceeded for this platform when adding MEP ID `%mep%`. Disabling ring `%ring%`

Message Parameters

Name	Type
ring	String
mep	uInt32

ERPS.RingStateChg

Description

The ring state changed from old state to new state due to some topology change in the ring. The ring states can be one of "Idle", "Pending", "Protection", "Manual-Switch", "Forced-Switch", "Disabled".

Remedy

No action required - Informational message only

Severity

Info

Message Text

ERPS ring `%ring%` state changed from old state `%oldState%` to new state `%newState%`

Message Parameters

Name	Type
ring	String
oldState	String
newState	String

ERPS.ShutdownBegin

Description

User has initiated graceful process shutdown for ERPS.

Remedy

No action required - Informational message only

Severity

Info

Message Text

ERPS process shutting down started

ERPS.ShutdownEnd

Description

User has initiated graceful process shutdown for ERPS. The shutdown action is completed.

Remedy

No action required - Informational message only

Severity

Info

Message Text

ERPS process shut down completed

ERPS.DebugTrace

Description

ERPS Debug message displayed when user wishes to view basic debug information.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

ERPS.TxPkt

Description

Event occurs when a packet sent, from an external ERPS source, on the specified port is enqueued in the CRU buffer

Remedy

No action required - Informational message only

Severity

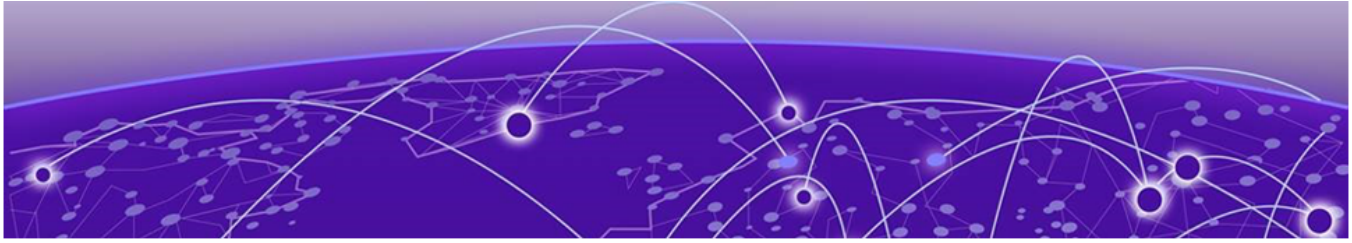
Debug-Data

Message Text

Outgoing packet from port `%slotport%` with data `%ptr%` and length of `%len%` bytes

Message Parameters

Name	Type
slotport	ingressSlotPort
ptr	Buf-ptr
len	Buf-len



ESRP Messages

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ESRP.VplsRedundancyDebug on page 1275
ESRP.VplsRedundancyVerbose on page 1276
ESRP.TimerInfo on page 1276
ESRP.InfoMsg on page 1277

ESRP.DebugMsg

Description

Debug

Remedy

None

Severity

Debug-Summary

Message Text

```
%debugMsg%
```

Message Parameters

Name	Type
debugMsg	Printf

ESRP.VplsRedundancyDebug

Description

ESRP-VPLS Module debug logs.

Remedy

None

Severity

Debug-Summary

Message Text

```
%debugMsg%
```

Message Parameters

Name	Type
debugMsg	Printf

ESRP.VplsRedundancyVerbose

Description

ESRP VPLS generic verbose debug logs.

Remedy

None

Severity

Debug-Verbose

Message Text

```
%verboseMsg%
```

Message Parameters

Name	Type
verboseMsg	Printf

ESRP.TimerInfo

Description

ESRP generic timer informational message

Remedy

None

Severity

Info

Message Text

```
%infoMsg%
```

Message Parameters

Name	Type
infoMsg	Printf

ESRP.InfoMsg

Description

Info message

Remedy

No remedy is available.

Severity

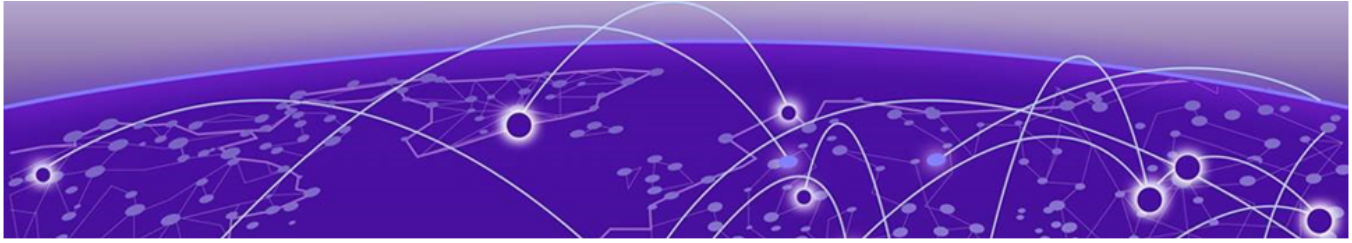
Info

Message Text

```
%infoMsg%
```

Message Parameters

Name	Type
infoMsg	Printf



ESRP.Aware Messages

ESRP.Aware.procAwareDmnAutoCreate on page 1278
ESRP.Aware.procAwareUpdateRecord on page 1279
ESRP.Aware.procAwareFwdHello on page 1279
ESRP.Aware.AddPortList on page 1280
ESRP.Aware.DelPortList on page 1280
ESRP.Aware.DropPduNoVlanPorts on page 1281
ESRP.Aware.procAwareDeleteRecord on page 1282

ESRP.Aware.procAwareDmnAutoCreate

Description

Domain was autocreated on this switch based on incoming ESRP PDU.

Remedy

None

Severity

Debug-Summary

Message Text

Domain : `%domainName%` , Group `%domainGroup%` , vlan `%vlan%`

Message Parameters

Name	Type
domainName	String
domainGroup	uInt
vlan	VLAN

ESRP.Aware.procAwareUpdateRecord

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Domain : `%domainName%` , Group `%domainGroup%` [mac :`%Mac%`] ; `%str%`

Message Parameters

Name	Type
domainName	String
domainGroup	uInt
Mac	MAC
str	Printf

ESRP.Aware.procAwareFwdHello

Description

ESRP Hello was forwarded.

Remedy

None

Severity

Debug-Summary

Message Text

Domain : `%domainName%` , Group `%domainGroup%` , Vlan `%vlan%` ; `%str%`

Message Parameters

Name	Type
domainName	String
domainGroup	uInt
vlan	VLAN
str	Printf

ESRP.Aware.AddPortList

Description

Debug log message to indicate ports being added.

Remedy

None

Severity

Debug-Summary

Message Text

Adding `%numPorts%` ports to Domain: `%domainName%` Grp: `%domainGroup%` `%info%`

Message Parameters

Name	Type
domainName	String
domainGroup	uInt32
numPorts	uInt
info	Printf

ESRP.Aware.DelPortList

Description

Debug log message to indicate ports being deleted.

Remedy

None

Severity

Debug-Summary

Message Text

Deleting `%numPorts%` ports from Domain: `%domainName%` Grp: `%domainGroup%` `%info%`

Message Parameters

Name	Type
domainName	String
domainGroup	uInt32
numPorts	uInt
info	Printf

ESRP.Aware.DropPduNoVlanPorts

Description

PDU was not forwarded out any ports on the Master Vlan because either the vlan had no ports configured, or non of the selective forward ports configured were members of the vlan.

Remedy

Make sure Master Vlan has ports added to it. If selective forward ports have been configured, make sure these have been added to the Master Vlan

Severity

Debug-Summary

Message Text

Could not forward PDU out vlan `%vlan%`. `%info%`

Message Parameters

Name	Type
vlan	VLAN
info	Printf

ESRP.Aware.procAwareDeleteRecord

Description

Debug log message to indicate awareRecord is being deleted. This occurs if no hellos for this particular Domain/Grp pair have been received for 30 seocnds.

Remedy

None

Severity

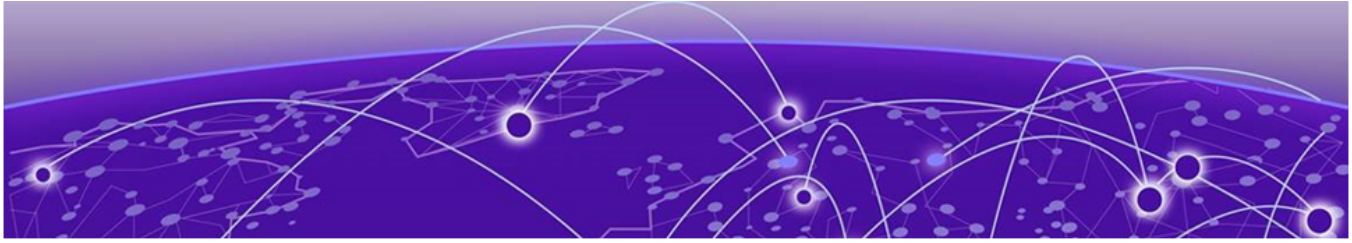
Info

Message Text

Deleting awareRecord for Domain: `%domainName%` Grp: `%domainGroup%` `%info%`

Message Parameters

Name	Type
domainName	String
domainGroup	uInt32
info	Printf



ESRP.InPdu Messages

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ESRP.InPdu.procHelloInPduDetail on page 1284
ESRP.InPdu.procHelloV2InPduDetail on page 1285
ESRP.InPdu.procHelloDomainFnd on page 1286
ESRP.InPdu.procHelloDomainNotFnd on page 1286
ESRP.InPdu.procHelloDomainDisabled on page 1287
ESRP.InPdu.procHelloVerMismatch on page 1287
ESRP.InPdu.procHelloGrpMismatch on page 1288
ESRP.InPdu.procHelloCmpMetrics on page 1289
ESRP.InPdu.procHelloV2Handshake on page 1289

ESRP.InPdu.procHelloInPdu

Description

An ESRP hello packet has been received. A summary of the information is provided.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

slot:port=`%inPif%`,EEP Seq `%seq%`,Mac `%mac%`,netAddr = `%netAddr%`,netType = `%netType%` ,VID `%vid%`,domainID `%did%` (ptr=`%pTlv%`) [version = `%protVersion%`]

Message Parameters

Name	Type
inPif	String
seq	uInt
mac	MAC
netAddr	IP
netType	uInt
vid	VLAN-tag
did	uInt
pTlv	Ptr
protVersion	String

ESRP.InPdu.procHelloInPduDetail

Description

Detailed display of received ESRP hello.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%domainName%`: State `%state%`, Grp `%group%`, T `%helloTimer%`, Pri `%priority%`, ActPrt `%activePorts%`, IntPrt `%internalActivePorts%`, TrActPrt `%trackedActivePorts%`, TrIp `%trackedIp%` [Version = `%protVersion%`]

Message Parameters

Name	Type
domainName	ESRP-domain
state	String
group	uInt16
helloTimer	uInt
priority	uInt

Name	Type
activePorts	uInt
internalActivePorts	uInt
trackedActivePorts	uInt
trackedIp	uInt
protVersion	String

ESRP.InPdu.procHelloV2InPduDetail

Description

Detailed display of ESRP Version V2 parameters (Add Ons)

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%domainName%`: Flags : (N=`%nBit%`, F=`%fBit%`, R=`%rBit%`, B=`%bBit%`, S=`%sBit%`, H=`%hBit%`), LSN=`%LSeq%` , RSN=`%RSeq%` , APW=`%activePortW%`

Message Parameters

Name	Type
domainName	ESRP-domain
nBit	uInt
fBit	uInt
rBit	uInt
bBit	uInt
sBit	uInt
hBit	uInt
LSeq	uInt
RSeq	uInt
activePortW	uInt

ESRP.InPdu.procHelloDomainFnd

Description

An ESRP Hello packet was received. The domain/vlan specified in the ESRP Hello packet was successfully matched with a configured domain on this switch.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Found ESRP domain : `%domainName%` , domainID : `%did%` , VID : `%vid%` , domain Oper. version : `%domainOperVersion%` , Hello pkt. version : `%helloPktVersion%`

Message Parameters

Name	Type
domainName	ESRP-domain
did	uInt16
vid	uInt16
domainOperVersion	String
helloPktVersion	String

ESRP.InPdu.procHelloDomainNotFnd

Description

Received ESRP hello cannot be associated with any ESRP domain.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Cannot associate with ESRP domain ; domainID : `%did%` , VID : `%vid%` , Hello pkt. version : `%helloPktVersion%`

Message Parameters

Name	Type
did	uInt
vid	VLAN-tag
helloPktVersion	String

ESRP.InPdu.procHelloDomainDisabled

Description

Matching domain found is not ESRP enabled. So hello pkt. is diverted for simple aware processing.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Domain : `%domainName%` is disabled.; Feeding hello pkt for Aware Processing

Message Parameters

Name	Type
domainName	ESRP-domain

ESRP.InPdu.procHelloVerMismatch

Description

The version in the incomimg PDU does not match our current operating version.

Remedy

Make sure all switches taking part in ESRP are running the same version.

Severity

Debug-Summary

Message Text

Protocol Version Mismatch ; domain = `%domainName%`, domain Oper. Version `%domainOperVersion%`, hello pkt. Version `%helloPktVersion%`

Message Parameters

Name	Type
domainName	ESRP-domain
domainOperVersion	uInt16
helloPktVersion	uInt16

ESRP.InPdu.procHelloGrpMismatch

Description

A hello PDU was received for this domain, but no group numbers match.

Remedy

Make sure the correct domain/group numbers are configured on all switches.

Severity

Debug-Summary

Message Text

Domain = `%domainName%` , domain group=`%domainGroup%`, hello pkt. group=`%helloPktGroup%` ; Feeding Pkt. for Aware Processing.

Message Parameters

Name	Type
domainName	ESRP-domain
domainGroup	uInt16
helloPktGroup	uInt16

ESRP.InPdu.procHelloCmpMetrics

Description

Comparing the metrics in the PDU with the switches metrics. These metrics may decide if we need to gain or relinquish mastership.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

domain = `%domainName%`, state `%domainState%`, Nbr. mac `%NbrMac%`, Nbr. state `%NbrState%`; `%str%`

Message Parameters

Name	Type
domainName	ESRP-domain
domainState	String
NbrMac	MAC
NbrState	String
str	Printf

ESRP.InPdu.procHelloV2Handshake

Description

Processsing V2 Handshake.

Remedy

No remedy is available.

Severity

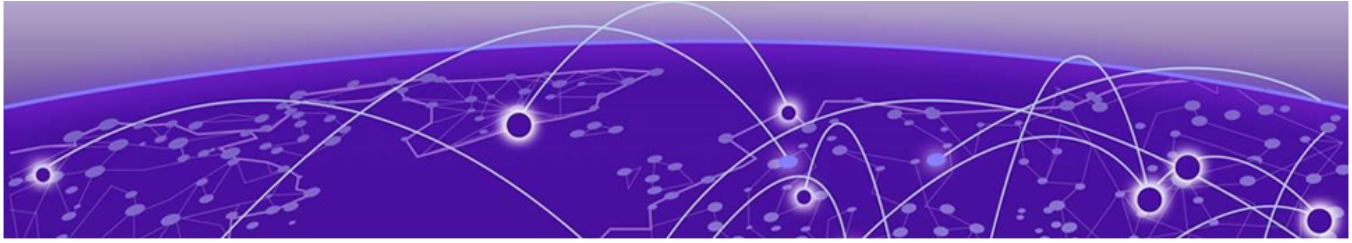
Debug-Summary

Message Text

domain `%domain%`, group `%group%` : H=`%Hbit%`, LSN : `%local_seq%` , RSN `%remote_seq%` : [`%str%`]

Message Parameters

Name	Type
domain	ESRP-domain
group	uInt
Hbit	uInt
local_seq	uInt
remote_seq	uInt
str	Printf



ESRP.Nbr Messages

ESRP.Nbr.procNbrRefresh on page 1291
ESRP.Nbr.procNbrMultipleNbr on page 1292
ESRP.Nbr.procNbrCleared on page 1292
ESRP.Nbr.procNbrUpdateFailed on page 1293
ESRP.Nbr.procNbrNewNbr on page 1294
ESRP.Nbr.procNbrSequenceNumSkip on page 1294

ESRP.Nbr.procNbrRefresh

Description

A Hello PDU was received and the neighbor table was updated with new information.

Remedy

None.

Severity

Debug-Summary

Message Text

Domain : `%domainName%` Neighbor Updated mac `%nbrMac%` , group `%nbrGroup%`

Message Parameters

Name	Type
domainName	String
nbrMac	MAC
nbrGroup	uInt

ESRP.Nbr.procNbrMultipleNbr

Description

Another neighber with a different MAC was detected. We only support 1 neighbor per domain, so the PDU would have been dropped.

Remedy

Disable the ESRP domain on the other switch so that there are only 2 switches participating in ESRP domain/group.

Severity

Debug-Summary

Message Text

Domain : `%domainName%` , state : `%domainState%` : Invalid 2nd Neighbor : mac `%nbrMac%`, group `%nbrGroup%` state `%nbrState%`

Message Parameters

Name	Type
domainName	String
domainState	String
nbrMac	MAC
nbrGroup	uInt
nbrState	String

ESRP.Nbr.procNbrCleared

Description

Neighbor table was cleared.

Remedy

None.

Severity

Debug-Summary

Message Text

Domain : `%domainName%` State : `%domainState%` ; `%str%`

Message Parameters

Name	Type
domainName	String
domainState	String
str	Printf

ESRP.Nbr.procNbrUpdateFailed

Description

Neighbor table was not updated, probably due to mismatch in sequence numbers, or duplicate PDUs.

Remedy

None

Severity

Debug-Summary

Message Text

Domain = `%domainName%` : Neighbor Update Failed : mac `%nbrMac%` , state `%nbrState%` , group `%nbrGroup%` , rxSeqNum:`%rxSeq%` lastSeqNum:`%lastSeq%` , [version = `%protVersion%`] ;`%str%`

Message Parameters

Name	Type
domainName	String
nbrMac	MAC
nbrState	String
nbrGroup	uInt
rxSeq	uInt
lastSeq	uInt

Name	Type
protVersion	String
str	Printf

ESRP.Nbr.procNbrNewNbr

Description

A new neighbor entry was created.

Remedy

None

Severity

Debug-Summary

Message Text

Domain `%domainName%` state `%domainState%` : New Neighbor detected mac `%nbrMac%` , state `%nbrState%` , group `%nbrGroup%`

Message Parameters

Name	Type
domainName	String
domainState	String
nbrMac	MAC
nbrState	String
nbrGroup	uInt

ESRP.Nbr.procNbrSequenceNumSkip

Description

Sequence numbers are not in sync, but we are going to bypass the check for recovery reasons.

Remedy

None

Severity

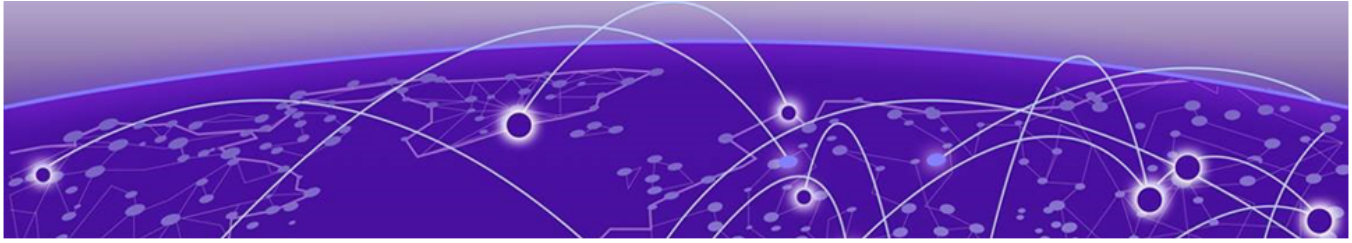
Debug-Summary

Message Text

`%domainName%` : mac:`%nbrMac%` state:`%nbrState%` group:`%nbrGroup%` rxSeqNum: `%rxSeq%` lastRxSeqNum:`%lastSeq%` [version = `%protVersion%`] `%str%`

Message Parameters

Name	Type
domainName	String
nbrMac	MAC
nbrState	String
nbrGroup	uInt
rxSeq	uInt
lastSeq	uInt
protVersion	String
str	Printf



ESRP.OutPdu Messages

ESRP.OutPdu.procHelloOutPdu on page 1296
ESRP.OutPdu.procHelloOutPduDetail on page 1297
ESRP.OutPdu.procHelloV2OutPduDetail on page 1298
ESRP.OutPdu.procHelloTxPkt on page 1298

ESRP.OutPdu.procHelloOutPdu

Description

Sending out Hello PDU.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Domain : [`%domainName%`] ,Group `%domainGroup%` : EEP Seq `%seq%`,Mac `%mac%`,netAddr = `%netAddr%`,netType = `%netType%` ,VID `%vid%`,domainID `%did%` (framePtr=`%pTlv%`) [version = `%protVersion%`]

Message Parameters

Name	Type
domainName	ESRP-domain
domainGroup	uInt
seq	uInt
mac	MAC
netAddr	IP

Name	Type
netType	uInt
vid	VLAN-tag
did	uInt
pTlv	Ptr
protVersion	String

ESRP.OutPdu.procHelloOutPduDetail

Description

Detailed information of Hello PDU being sent out.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%domainName%`: State `%state%`, Grp `%group%`, T `%helloTimer%`, Pri `%priority%`, ActPrt `%activePorts%`, IntPrt `%internalActivePorts%`, TrActPrt `%trackedActivePorts%`, TrIp `%trackedIp%` [Version = `%protVersion%`]

Message Parameters

Name	Type
domainName	ESRP-domain
state	String
group	uInt
helloTimer	uInt
priority	uInt
activePorts	uInt
internalActivePorts	uInt
trackedActivePorts	uInt
trackedIp	uInt
protVersion	String

ESRP.OutPdu.procHelloV2OutPduDetail

Description

Detailed information of V2 Hello PDU being sent out.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%domainName%` : Flags : (N=`%nBit%`, F=`%fBit%`, R=`%rBit%`, B=`%bBit%`, S=`%sBit%`, H=`%hBit%`), LSN=`%LSeq%` , RSN=`%RSeq%` , APW=`%activePortW%`

Message Parameters

Name	Type
domainName	ESRP-domain
nBit	uInt
fBit	uInt
rBit	uInt
bBit	uInt
sBit	uInt
hBit	uInt
LSeq	uInt
RSeq	uInt
activePortW	uInt

ESRP.OutPdu.procHelloTxPkt

Description

Detailed information of PDU being sent out right before it is enqueued to writer thread.

Remedy

No remedy is available.

Severity

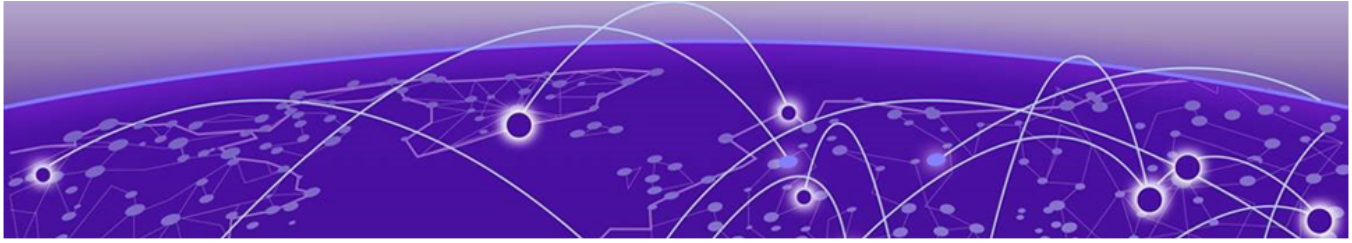
Debug-Summary

Message Text

Domain : `%domainName%` , Group : `%domainGroup%` state `%state%` ; PDU Type : `%type%`, [`%spOrVlan%` : `%str%`]

Message Parameters

Name	Type
domainName	String
domainGroup	uInt
state	String
type	String
spOrVlan	String
str	Printf



ESRP.State Messages

ESRP.State.ToMstr on page 1300
ESRP.State.ToSlave on page 1301
ESRP.State.ToNtrl on page 1301
ESRP.State.ToPremstr on page 1302
ESRP.State.MstrToSlave on page 1303
ESRP.State.MstrToNtrl on page 1303
ESRP.State.ToAware on page 1304
ESRP.State.Timer on page 1305
ESRP.State.UnexpectedEvent on page 1305
ESRP.State.TimerMismatch on page 1306

ESRP.State.ToMstr

Description

The switch transitioned from the specified ESRP state to Master on the specified VLAN.

Remedy

The prior Master switch has either been timed out or it lost an ESRP election. If the links between the ESRP switches are still intact and operating, consult the prior Master's log for indications of an election loss. For instance, a port went down or was disabled, or a gateway IP ping failed (if ping tracking is enabled). Note that this condition may also occur if ESRP was disabled on the specified vlan.

Severity

Warning

Message Text

`%oldState%`-->MASTER : domain=`%domainName%` [`%reason%`] : [version = `%protVersion%`]

Message Parameters

Name	Type
oldState	String
domainName	String
reason	String
protVersion	String

ESRP.State.ToSlave

Description

This switch transitioned from the specified ESRP state to Slave on the specified VLAN.

Remedy

This condition is not used for Master to Slave transitions. Transitions to Standby are a normal operation during initialization or configuration. It may also occur if a master reelection took place and two switches transitioned to Premaster. One will switch back to Slave.

Severity

Warning

Message Text

`%oldState%`-->SLAVE : domain=`%domainName%` [`%reason%`] : [version = `%protVersion%`]

Message Parameters

Name	Type
oldState	String
domainName	String
reason	String
protVersion	String

ESRP.State.ToNtrl

Description

This switch transitioned from the specified ESRP state to Neutral on the specified VLAN.

Remedy

Transitions to Neutral are normal during initialization and configuration.

Severity

Warning

Message Text

`%oldState%`-->NEUTRAL : domain=`%domainName%` [`%reason%`] : [version = `%protVersion%`]

Message Parameters

Name	Type
oldState	String
domainName	String
reason	String
protVersion	String

ESRP.State.ToPremstr

Description

This switch transitioned from the specified ESRP state to Premaster on the specified VLAN.

Remedy

The prior Master has either been timed out or it lost an ESRP election. As a result, this switch is verifying that networks condition are correct for it to become the new Master. If the links between the ESRP switches are still intact and operating, consult the prior Master's log for indications of an election loss. For instance, a port went down or was disabled, or a gateway IP ping failed (if ping tracking is enabled).

Severity

Warning

Message Text

`%oldState%`-->PREMASTER : domain=`%domainName%` [`%reason%`] : [version = `%protVersion%`]

Message Parameters

Name	Type
oldState	String
domainName	String
reason	String
protVersion	String

ESRP.State.MstrToSlave

Description

This switch transitioned from Master to Slave on the specified VLAN.

Remedy

This switch has lost an ESRP election to another ESRP switch. Check additional log messages for indications as to why. For example, a port was disabled, or a track failed.

Severity

Debug-Summary

Message Text

MASTER-->SLAVE : domain=`%domainName%` [`%reason%`] : [version = `%protVersion%`]

Message Parameters

Name	Type
oldState	String
domainName	String
reason	String
protVersion	String

ESRP.State.MstrToNtrl

Description

This switch transitioned from Master to Neutral on the specified VLAN.

Remedy

This switch has lost an ESRP election to another ESRP switch. Check additional log messages for indications as to why. For example, a port was disabled, or a track failed.

Severity

Debug-Summary

Message Text

MASTER-->NEUTRAL : domain=`%domainName%` [`%reason%`] : [version = `%protVersion%`]

Message Parameters

Name	Type
oldState	String
domainName	String
reason	String
protVersion	String

ESRP.State.ToAware

Description

This domain transitioned to AWARE state..

Remedy

No remedy is available.

Severity

Warning

Message Text

`%oldState%`-->AWARE : domain=`%domainName%` [`%reason%`] : [version = `%protVersion%`]

Message Parameters

Name	Type
oldState	String
domainName	String
reason	String
protVersion	String

ESRP.State.Timer

Description

Log of timer being started, restarted or stopped.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%state%` : domain = `%domainName%` [`%reason%`] :[version=`%protVersion%`] ; `%action%` : `%timerType%`

Message Parameters

Name	Type
state	String
domainName	String
reason	String
protVersion	String
action	String
timerType	String

ESRP.State.UnexpectedEvent

Description

An unexpected event was passed to the ESRP state machine that it should not normally receive. The event will be ignored.

Remedy

This is an informational message; this event requires no response.

Severity

Info

Message Text

Domain `%domainName%` :group `%group%` :state = `%state%` [`%event%`] [version=`%version%`]

Message Parameters

Name	Type
domainName	ESRP-domain
group	uInt
state	String
event	String
version	String

ESRP.State.TimerMismatch

Description

The timer ID in the ESRP PDU does not match any existing timers.

Remedy

None

Severity

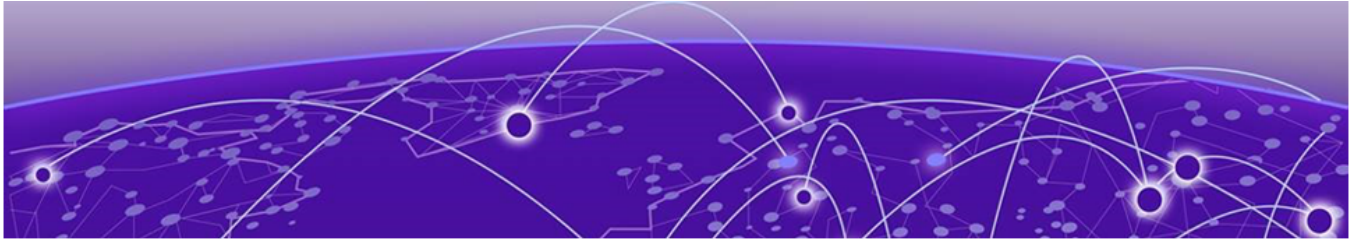
Warning

Message Text

`%domain%`: state `%state%` ,group `%group%` ,timer `%TimerType%` , [myTmr `%myTmr%`,nbrTmr `%nbrTmr%`]

Message Parameters

Name	Type
domain	ESRP-domain
state	String
group	uInt
TimerType	String
myTmr	uInt
nbrTmr	uInt



ESRP.System Messages

ESRP.System.timerTicks on page 1308

ESRP.System.timerTicks

Description

Message to show if we missed some timer ticks.

Remedy

No remedy is available.

Severity

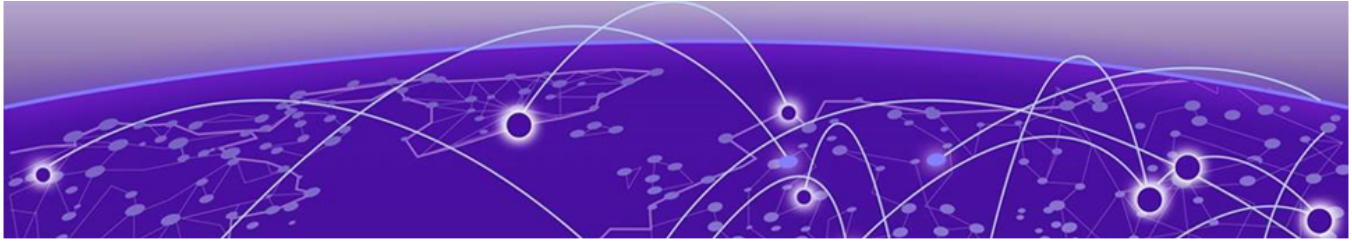
Info

Message Text

Missed timer ticks `%ticks%` (last : `%lastTimeStamp%` - current `%currentTimeStamp%`)

Message Parameters

Name	Type
ticks	uInt
lastTimeStamp	uInt32
currentTimeStamp	uInt32



ESRP.Track Messages

ESRP.Track.Ping on page 1309
ESRP.Track.Env on page 1310
ESRP.Track.PseudoWire on page 1310

ESRP.Track.Ping

Description

Trace ESRP Track Ping

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%domainName%` : PingId : `%pingId%` (`%nodePtr%`) : target `%target%` (code = `%returnCode%`) : [`%comment%`]

Message Parameters

Name	Type
domainName	ESRP-domain
pingId	sInt
nodePtr	Ptr
target	IP
returnCode	uInt
comment	Printf

ESRP.Track.Env

Description

Trace ESRP Track Environment

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%domain%`, `%trackedParameter%`, status = `%status%`, `%comment%`

Message Parameters

Name	Type
domain	ESRP-domain
trackedParameter	String
status	uInt
comment	Printf

ESRP.Track.PseudoWire

Description

Trace ESRP Tracked Pseudowire

Remedy

No remedy is available.

Severity

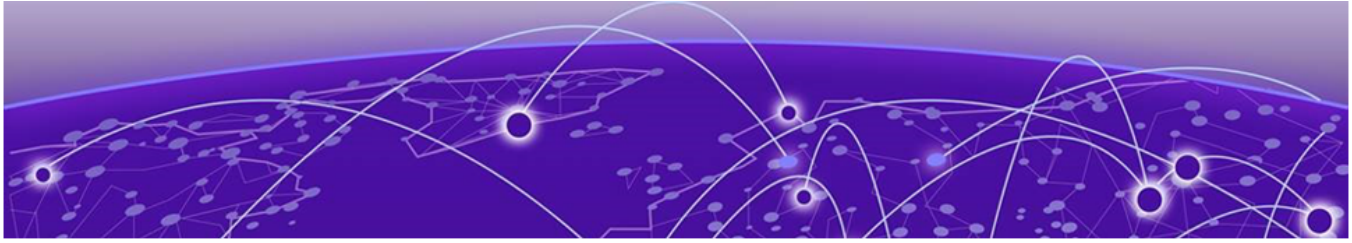
Debug-Summary

Message Text

`%debugMsg%`

Message Parameters

Name	Type
debugMsg	Printf



ESRP.Vlan Messages

ESRP.Vlan.RegisterVlan on page 1312
ESRP.Vlan.RegisterPort on page 1313
ESRP.Vlan.SetFwdVlan on page 1313
ESRP.Vlan.SetFwdPort on page 1314
ESRP.Vlan.portBlockAck on page 1315
ESRP.Vlan.State on page 1315

ESRP.Vlan.RegisterVlan

Description

ESRP registering VLAN with VlanMgr

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Domain = `%domainName%` , State = `%domainState%` ; [`%registerFlag%` : vlan `%vlanName%`]

Message Parameters

Name	Type
domainName	String
domainState	String
registerFlag	String
vlanName	String

ESRP.Vlan.RegisterPort

Description

ESRP registering port with VlanMgr

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Domain = `%domainName%`, state = `%domainState%` ; [`%registerFlag%` : vlan `%vlanName%` , sp : `%slotPort%`]

Message Parameters

Name	Type
domainName	String
domainState	String
registerFlag	String
vlanName	String
slotPort	String

ESRP.Vlan.SetFwdVlan

Description

ESRP sending message to VlanMgr to set vlan to Forwarding.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Domain = %domainName% , State = %domainState% [vlan : %vlanName% , ingress state : %ingressState% , egress state : %egressState%]

Message Parameters

Name	Type
domainName	String
domainState	String
vlanName	String
ingressState	String
egressState	String

ESRP.Vlan.SetFwdPort

Description

ESRP sending message to VlanMgr to set port to Forwarding.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Domain = %domainName% , State = %domainState% [vlan : %vlanName% ,sp : %slotPort% , ingress state : %ingressState% , egress state : %egressState%]

Message Parameters

Name	Type
domainName	String
domainState	String
vlanName	String
slotPort	String
ingressState	String
egressState	String

ESRP.Vlan.portBlockAck

Description

Received ACK message from VlanMgr that the port block request we sent was processed.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%domain%` : context `%context%` SeqId `%seqId%` Pending Acks `%pendingAcks%` [`%reasonCode%`] : [`%t1_sec%.%t1_usec%` - `%t2_sec%.%t2_usec%`]

Message Parameters

Name	Type
domain	ESRP-domain
context	uInt32
seqId	uInt8
pendingAcks	uInt8
reasonCode	String
t1_sec	uInt32
t1_usec	uInt32
t2_sec	uInt32
t2_usec	uInt32

ESRP.Vlan.State

Description

This EMS statement provide debug information about ESRP vlan state changes viz. add port to vlan , delete port from vlan , link state and link speed changes.

Remedy

No remedy is available.

Severity

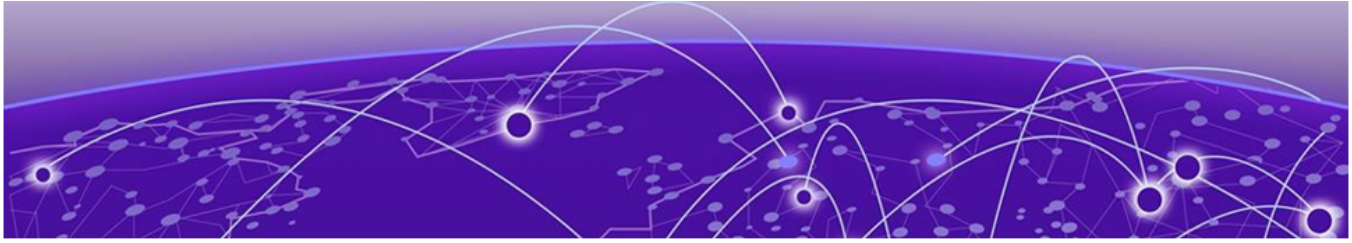
Debug-Summary

Message Text

`%domain%`:`%vlan%`,`%slot%`:`%port%`, link state `%linkState%`, speed `%linkSpeed%`, APC `%apc%`, APW `%apw%` [`%event%`]

Message Parameters

Name	Type
domain	ESRP-domain
vlan	VLAN
slot	uInt16
port	uInt16
linkState	String
linkSpeed	uInt32
apc	uInt
apw	uInt32
event	String



EtherOAM Messages

EtherOAM.ReadSockFail on page 1317
EtherOAM.AllocSockFail on page 1318
EtherOAM.InitTimerFail on page 1319
EtherOAM.BindFiltFail on page 1319
EtherOAM.DebugSummary on page 1320
EtherOAM.DebugVerbose on page 1321
EtherOAM.InitOK on page 1321
EtherOAM.RxEvent on page 1322
EtherOAM.TxEvent on page 1323
EtherOAM.CfgPortOK on page 1324
EtherOAM.CfgPortFail on page 1324
EtherOAM.CfgSysOK on page 1325
EtherOAM.CfgSysFail on page 1326
EtherOAM.Timer on page 1326
EtherOAM.AllocMemFail on page 1327
EtherOAM.FndPortFail on page 1328
EtherOAM.FndVLANFail on page 1328
EtherOAM.BlkPort on page 1329
EtherOAM.UnblkPort on page 1330
EtherOAM.VLANOperFail on page 1330
EtherOAM.RxPDUUnk on page 1331
EtherOAM.InitPortOK on page 1332

EtherOAM.ReadSockFail

Description

Warning message when there was a socket read failure.

Remedy

Although this shouldn't happen, it is not critical.If this error comes continously,check system logs for any system initialization errors

Severity

Warning

Message Text

Failed to receive an Ethernet OAM PDU because a read of socket `%sockId%` failed with error code `%errorCode%`.

Message Parameters

Name	Type
sockId	uInt
errorCode	xInt16

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.AllocSockFail

Description

Ethernet OAM application failed to open a communication channel with the system to communicate with the outside world.

Remedy

When this happens packets can't be send out, or received from the network. See if restarting the process solves this problem. Under normal circumstances this should not happen, however if it does, please escalate to engineering.

Severity

Error

Message Text

Failed to allocate global OAM packet socket, error: `%errormsg%`.Return Code : `%retCode%`

Message Parameters

Name	Type
errormsg	String
retCode	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.InitTimerFail

Description

Ethernet OAM application failed to initialize timers.This should not occur unless otherwise there is a systemwide problem and all application attempt to interface with timer module fails.

Remedy

When this happens,any timer based events/functionalities may not work as expected.See if restarting the process solves this problem. Under normal circumstances this should not happen, however if it does, please escalate to engineering.

Severity

Error

Message Text

Failed to initialize Ethernet OAM timers

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.BindFiltFail

Description

Ethernet OAM application failed to bind/unbind to/from netTx Filter.This should never occur,but if it does, we simply drop the request for adding key to netTx for packet reception.

Remedy

Check whether system boot messages (log) doesn't throw any system level initialization errors

Severity

Warning

Message Text

`%actionType%` netTx filter failed for VLAN `%vlanName%` for Ethernet OAM socket ID `%sockId%`

Message Parameters

Name	Type
actionType	String
vlanName	String
sockId	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.DebugSummary

Description

DebugSummary messages show only the important debug messages related to Ethernet OAM

Remedy

This is for Debugging purposes only

Severity

Debug-Summary

Message Text

`%reason%`

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.DebugVerbose

Description

DebugVerbose messages will show all debug related messages.

Remedy

This is for Debugging purposes only

Severity

Debug-Verbose

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.InitOK

Description

Debug messages when Ethernet OAM is being initialized.

Remedy

This is for Debugging purposes only

Severity

Debug-Summary

Message Text

`%reason%`

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.RxEvent

Description

To track received events (like port events,VLAN events,LinkFault Info) from HAL,VLAN Module and by PDU from peer

Remedy

This is for informational purposes only

Severity

Info

Message Text

Received `%event%` event for port `%slotport%` with EventType [`%eventType%`]

Message Parameters

Name	Type
event	String
slotport	ingressSlotPort
eventType	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.TxEvent

Description

To track transmitted events (like enable/disable OAM,LinkFault Info) to HAL,VLAN Module and by PDU to peer

Remedy

This is for informational purposes only

Severity

Info

Message Text

Transmitting `%event%` event from port `%slotport%` with Eventtype [`%eventType%`]

Message Parameters

Name	Type
event	String
slotport	egressSlotPort
eventType	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.CfgPortOK

Description

This is to track port related configuration

Remedy

This is for debugging purposes only

Severity

Debug-Summary

Message Text

```
%cfgPortDetail%
```

Message Parameters

Name	Type
cfgPortDetail	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.CfgPortFail

Description

Indicates failure in port configuration.This might be because of enabling link fault management on copper/combo ports or half duplex ports or on ports with auto negotiation off

Remedy

Check whether the port is full duplex ports with auto negotiation off and has support for link fault management.

Severity

Error

Message Text

```
%portCfgFailDetail% %port%
```

Message Parameters

Name	Type
portCfgFailDetail	String
port	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.CfgSysOK

Description

Debug messages when Ethernet OAM system is configured.

Remedy

This is for debugging purposes only

Severity

Debug-Summary

Message Text

```
%sysCfgDetail%
```

Message Parameters

Name	Type
sysCfgDetail	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.CfgSysFail

Description

Debug messages when Ethernet OAM system is configured.

Remedy

This is for debugging purposes only

Severity

Debug-Summary

Message Text

`%sysCfgFailDetail%`

Message Parameters

Name	Type
sysCfgFailDetail	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.Timer

Description

Log of timer being started, restarted or stopped (with reason).

Remedy

This is for debugging purposes only

Severity

Debug-Summary

Message Text

`%timerType%` Timer `%action%` for port `%slotPort%` [`%reason%`]

Message Parameters

Name	Type
timerType	String
action	String
slotPort	SlotPort
reason	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.AllocMemFail

Description

We tried to allocate memory either for a ethernet OAM Port Node/for neighbor record/for sending message to VLAN and failed. We either ran out of memory, or serious memory corruption occured. In either case, we are in serious trouble.

Remedy

Please get output of "show cpu-monitoring", "show memory" and "show tech" command and contact TAC. If "ls internal" shows any output, please use "upload debug" command and get debug files.No user remedy available other than system restart.

Severity

Error

Message Text

Port `%port%` - failed to allocate memory.

Message Parameters

Name	Type
port	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.FndPortFail

Description

This error indicates,search for a particular port failed. This could be because of invalid input port index or memory corruption

Remedy

Report this immediately to check memory corruption (if any) or Restart the system

Severity

Error

Message Text

Port `%port%` - Port Node not found.

Message Parameters

Name	Type
port	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.FndVLANFail

Description

Any event from a VLAN will pass the VLAN name as an index to find the VLAN object. This error indicates it is not possible to find the VLAN object from the input index VLAN. This should notr occur because VLAN objects are maintained by the VLAN module (client) and an invalid VLAN is filtered in the VLAN module itself.

Remedy

Check that the specified VLAN is present (valid VLAN) in the system. Whether present or not, there is a possibility of memory corruption in the VLAN module/message exchange. No user remedy is available other than dot1ag process/system restart.

Severity

Error

Message Text

Not able to find vlan `%vlanName%`

Message Parameters

Name	Type
vlanName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.BlkPort

Description

Ethernet OAM will block all traffic on the port except for OAM PDUs.

Remedy

Check the physical link connectivity and quality

Severity

Notice

Message Text

Blocking traffic on port `%port%`

Message Parameters

Name	Type
port	SlotPort

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator

EtherOAM.UnblkPort

Description

Ethernet OAM will unblock all traffic on the port. If another protocol is registered, the port state of that protocol will be used to default the port. If no other protocol is registered, Ethernet OAM sets the port to the default forwarding state.

Remedy

This is for Informational purposes only

Severity

Notice

Message Text

Unblocking traffic on port `%port%`

Message Parameters

Name	Type
port	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.VLANOperFail

Description

Indicates error while registering,deregistering OAM with VLAN or while controlling blocking state of Ethernet OAM PDUs slow path forwarding.

Remedy

This can happen if registraion with VLAN protocol failed during initialization;Check Protocol ID is valid and check System boot log messages for any system wide failure.Restart the process to solve this error

Severity

Error

Message Text

Protocol ID : `%protoId%` : Failed to `%actionStr%` Virtual Port Interface state for port `%portStr%`

Message Parameters

Name	Type
protoId	uInt
actionStr	String
portStr	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.RxPDUUnk

Description

Ethernet OAM received an unknown or unrecognized PDU. This should never occur, but if it does, we simply drop the PDU. Receiving a large number of these messages is indicative of a problem at the lower layers.

Remedy

Check that the peer is running a compatible version of Ethernet OAM.

Severity

Warning

Message Text

Unknown PDU received on port `%port%`. `%typeInfo%`

Message Parameters

Name	Type
port	SlotPort
typeInfo	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.InitPortOK

Description

Indicates Ethernet OAM port creation got success

Remedy

This is for informational purposes only

Severity

Debug-Verbose

Message Text

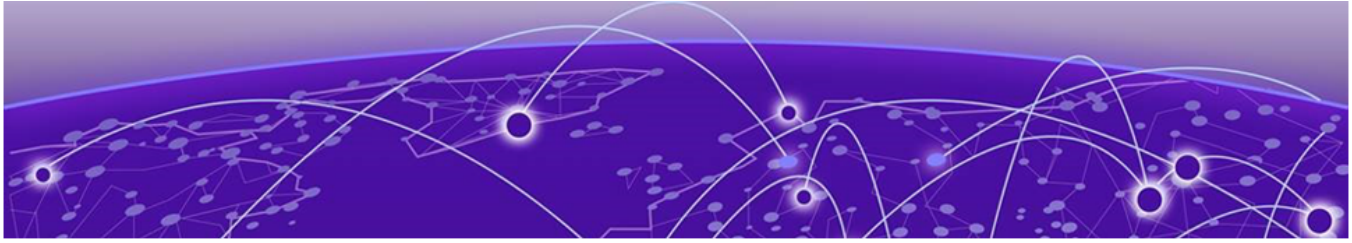
Ethernet OAM Port create success for port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



EtherOAM.InPDU Messages

EtherOAM.InPDU.PDUDump on page 1333
EtherOAM.InPDU.PDUSumm on page 1334
EtherOAM.InPDU.FlagDetail on page 1335
EtherOAM.InPDU.ProcFail on page 1336
EtherOAM.InPDU.RxFail on page 1336
EtherOAM.InPDU.RxOK on page 1337

EtherOAM.InPDU.PDUDump

Description

Dumps the received Ethernet OAM (Operation,Administration and Maintenance) Protocol Data Unit

Remedy

This is for debugging purposes only

Severity

Debug-Data

Message Text

Incoming packet from port `%slotport%` with a length of `%size%` bytes

Message Parameters

Name	Type
slotport	ingressSlotPort
size	uInt
pduBufPtr	Buf-ptr
pduBufLen	Buf-len

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.InPDU.PDUSumm

Description

Summary of the received Ethernet OAM (Operation,Administration and Maintenance) Protocol Data Unit fields

Remedy

This is for debugging purposes only

Severity

Debug-Summary

Message Text

Incoming packet from port `%slotport%` with DstMac=`%dstMac%`,srcMac=`%srcMac%`,Type=`%type%`,subType=`%subType%`,Flag=`%flag%`,Code=`%oamCode%`

Message Parameters

Name	Type
slotport	ingressSlotPort
dstMac	dstMAC
srcMac	srcMAC
type	xInt16
subType	xInt8
flag	xInt16
oamCode	xInt8

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.InPDU.FlagDetail

Description

Detailed View of the received Ethernet OAM (Operation,Administration and Maintenance) Protocol Data Unit Flag fields

Remedy

This is for debugging purposes only

Severity

Debug-Summary

Message Text

Incoming packet from port `%slotport%` with srcMac=`%srcMac%`,Code=`%oamCode%`,Flags (RS=`%rmtStblBit%`,RE=`%rmtEvaluatingBit%`,LS=`%localStblBit%`,LE=`%localEvaluatingBit%`,C=`%criticalEvtBit%`,D=`%dyingGaspBit%`,L=`%linkFaultBit%`]

Message Parameters

Name	Type
slotport	ingressSlotPort
srcMac	srcMAC
oamCode	xInt8
rmtStblBit	xInt8
rmtEvaluatingBit	xInt8
localStblBit	xInt8
localEvaluatingBit	xInt8
criticalEvtBit	xInt8
dyingGaspBit	xInt8
linkFaultBit	xInt8

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.InPDU.ProcFail

Description

Specifies reason for failure of Received PDU

Remedy

This can happen if Ethernet OAM application receives packet on system with OAM disabled gloabllay or on received port.Check reason for processing failure information

Severity

Debug-Summary

Message Text

Receive PDU Failed from port `%slotport%` [Reason=`%reason%`]

Message Parameters

Name	Type
slotport	ingressSlotPort
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.InPDU.RxFail

Description

This message specifies processing failed with reason for the received PDU.

Remedy

This can happen if Ethernet OAM application receives corrupted/wrong packet.Check reason for corrupted information

Severity

Error

Message Text

Receive PDU processing failed for port %slotport%
with dstMac=%dstMac%,Type=%type%,SubType=%subType%,Code=%oamCode%,
[Reason=%reason%]

Message Parameters

Name	Type
slotport	ingressSlotPort
dstMac	dstMAC
type	xInt16
subType	xInt8
oamCode	xInt8
reason	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.InPDU.RxOK

Description

An Ethernet OAM PDU Receive Success

Remedy

This is for debugging purposes only

Severity

Debug-Verbose

Message Text

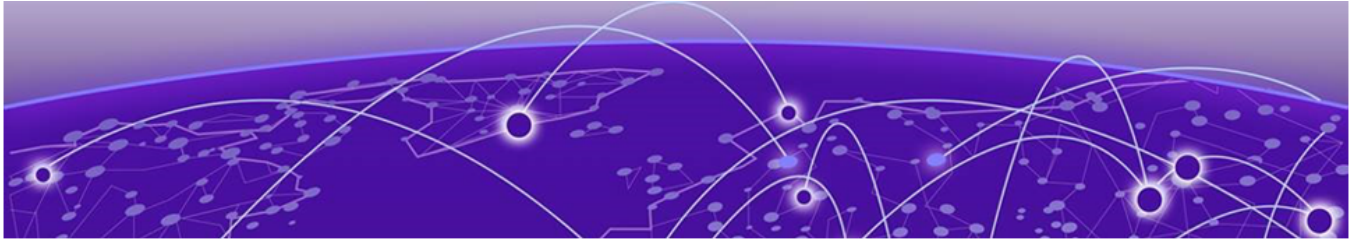
Receive PDU Success for port %slotPort% RxCount %rxCount%

Message Parameters

Name	Type
slotPort	ingressSlotPort
rxCount	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



EtherOAM.OutPDU Messages

EtherOAM.OutPDU.PDUDump on page 1339
EtherOAM.OutPDU.PDUSumm on page 1340
EtherOAM.OutPDU.FlagDetail on page 1341
EtherOAM.OutPDU.TxFail on page 1342
EtherOAM.OutPDU.TxOK on page 1342

EtherOAM.OutPDU.PDUDump

Description

Dumps the transmitted Ethernet OAM (Operation,Administration and Maintenance) Protocol Data Unit

Remedy

This is for debugging purposes only

Severity

Debug-Data

Message Text

Outgoing packet from port `%slotport%` with a length of `%size%` bytes

Message Parameters

Name	Type
slotport	ingressSlotPort
size	uInt
pduBufPtr	Buf-ptr
pduBufLen	Buf-len

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.OutPDU.PDUSumm

Description

Summary of the transmitted Ethernet OAM (Operation,Administration and Maintenance) Protocol Data Unit fields

Remedy

This is for debugging purposes only

Severity

Debug-Summary

Message Text

Outgoing packet from port `%slotport%` with DstMac=`%dstMac%`,srcMac=`%srcMac%`,subType=`%subType%`,Flag=`%flag%`,Code=`%oamCode%`

Message Parameters

Name	Type
slotport	egressSlotPort
dstMac	dstMAC
srcMac	srcMAC
subType	xInt8
flag	xInt16
oamCode	xInt8

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.OutPDU.FlagDetail

Description

Detailed View of the transmitted Ethernet OAM PDU Flag fields;linkFaultBit alone plays role indicating link has fault or not

Remedy

This is for debugging purposes only

Severity

Debug-Summary

Message Text

Outgoing packet from port `%slotport%` with srcMac=`%srcMac%`,Code=`%oamCode%`,Flags (RS=`%rmtStblBit%`,RE=`%rmtEvaluatingBit%`,LS=`%localStblBit%`,LE=`%localEvaluatingBit%`,C=`%criticalEvtBit%`,D=`%dyingGaspBit%`,L=`%linkFaultBit%`]

Message Parameters

Name	Type
slotport	egressSlotPort
srcMac	srcMAC
oamCode	xInt8
rmtStblBit	xInt8
rmtEvaluatingBit	xInt8
localStblBit	xInt8
localEvaluatingBit	xInt8
criticalEvtBit	xInt8
dyingGaspBit	xInt8
linkFaultBit	xInt8

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.OutPDU.TxFail

Description

An Ethernet OAM PDU transmit failed due to an unexpected system error

Remedy

This is a system problem. No user remedy is possible.

Severity

Error

Message Text

Transmit PDU Failed from port `%portStr%`; Reason[`%reason%`]

Message Parameters

Name	Type
portStr	String
reason	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

EtherOAM.OutPDU.TxOK

Description

An Ethernet OAM PDU transmit Success

Remedy

This is for debugging purposes only

Severity

Debug-Verbose

Message Text

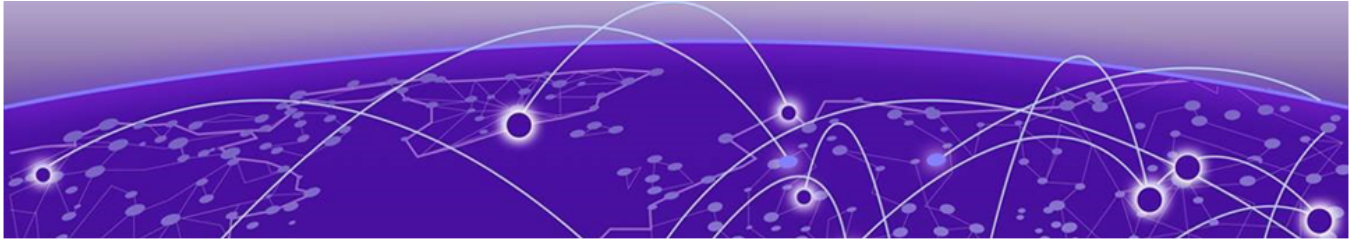
Transmit PDU Success for port `%slotPort%` TxCount `%txCount%`

Message Parameters

Name	Type
slotPort	egressSlotPort
txCount	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



exsshd Messages

exsshd.RejctConnAccessDeny on page 1344
exsshd.DebugVerbose on page 1345
exsshd.DebugData on page 1345
exsshd.EnblFIPSModeOK on page 1346
exsshd.EnblFIPSModeFail on page 1346
exsshd.KeyAuthFail on page 1347
exsshd.BndAccntKey on page 1347
exsshd.UnbndAccntKey on page 1348
exsshd.CfgKeyExchgAlgWeak on page 1349
exsshd.CfgPubKeyAlgWeak on page 1349
exsshd.CfgCipherWeak on page 1350
exsshd.CfgMsgAuthCodeWeak on page 1350
exsshd.CfgHostKeyAlgWeak on page 1351

exsshd.RejctConnAccessDeny

Description

SSH connection from the specified source is rejected by policy manager or access-list. This connection will not be permitted.

Remedy

Check the policy file or access-list associated with the application.

Severity

Warning

Message Text

SSH connection from source `%address%` has been denied by access-list `%rule%`. Rejecting connection.

Message Parameters

Name	Type
address	String
rule	String

exsshd.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

exsshd.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

exsshd.EnblFIPSModeOK

Description

FIPS mode is enabled in EXSSHD process.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Self-Test passed. FIPS mode enabled.

exsshd.EnblFIPSModeFail

Description

Unable to properly configure crypto lib with FIPS mode enabled.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Error

Message Text

Failed to enable FIPS mode: `%errString%`

Message Parameters

Name	Type
errString	String

exsshd.KeyAuthFail

Description

SSH Public key based authentication failed either due to invalid key or key not associated with the user id.

Remedy

Check whether the key is transferred to switch or Check whether the key has been configured to particular user id. Use show sshd2 user-key.

Severity

Warning

Message Text

Key authentication failed for user `%user%` from `%ip%`. Key invalid/not configured to the user.

Message Parameters

Name	Type
user	AccountName
ip	String

exsshd.BndAccntKey

Description

The account has been associated to the SSH public key. Account can perform successful SSH authentication using this key.

Remedy

Informational message. No Remedy.

Severity

Notice

Message Text

Bind user `%account%` to SSH public key `%key%` of SHA256 fingerprint `%fingerprint%` successfully

Message Parameters

Name	Type
account	AccountName
key	String
fingerprint	String

exsshd.UnbndAccntKey

Description

Association of the account to SSH public key has been removed. Account can not perform successful SSH authentication using this key, hereafter.

Remedy

Informational message. No remedy.

Severity

Notice

Message Text

Unbind user `%account%` to SSH public key `%key%` of SHA256 fingerprint `%fingerprint%` successfully

Message Parameters

Name	Type
account	AccountName
key	String
fingerprint	String

exsshd.CfgKeyExchgAlgWeak

Description

These key exchange algorithms are considered to be weaker (OpenSSH 7.5 and above) and are disabled by default. They are included in EXOS for backward compatibility.

Remedy

For added security, configure higher bits DH group as minimum key exchange algorithm.

Severity

Notice

Message Text

The configured key exchange algorithm(s), `%algString%`, is/are weaker than what is recommended.

Message Parameters

Name	Type
algString	String

exsshd.CfgPubKeyAlgWeak

Description

These public key algorithms are considered to be weaker (OpenSSH 7.5 and above) and are disabled by default. They are included in EXOS for backward compatibility.

Remedy

For added security, disable weaker public key algorithms.

Severity

Notice

Message Text

The configured public key algorithm(s), `%algString%`, is/are weaker than what is recommended.

Message Parameters

Name	Type
algString	String

exsshd.CfgCipherWeak

Description

These ciphers are considered to be weaker (OpenSSH 7.5 and above) and are disabled by default. They are included in EXOS for backward compatibility.

Remedy

For added security, disable weaker ciphers.

Severity

Notice

Message Text

The configured cipher(s), `%algString%`, is/are weaker than what is recommended.

Message Parameters

Name	Type
algString	String

exsshd.CfgMsgAuthCodeWeak

Description

These message authentication codes are considered to be weaker (OpenSSH 7.5 and above) and are disabled by default. They are included in EXOS for backward compatibility.

Remedy

For added security, disable weaker message authentication codes.

Severity

Notice

Message Text

The configured message authentication code(s), `%algString%`, is/are weaker than what is recommended.

Message Parameters

Name	Type
algString	String

exsshd.CfgHostKeyAlgWeak

Description

These host key algorithms are considered to be weaker (OpenSSH 7.5 and above) and are disabled by default. They are included in EXOS for backward compatibility.

Remedy

Recommend to generate new ssh host key. That would be of type RSA which is stronger.

Severity

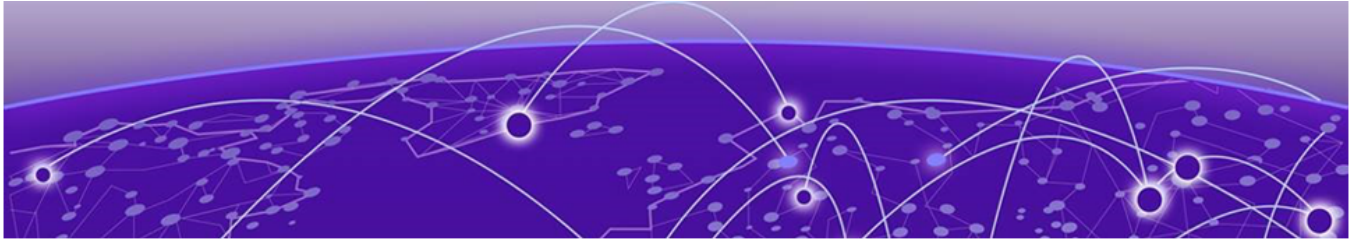
Notice

Message Text

The configured host key algorithm(s), `%algString%`, is/are weaker than what is recommended.

Message Parameters

Name	Type
algString	String



ExtLibA Messages

ExtLibA.DebugSummary on page 1352

ExtLibA.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Debug message only.

Severity

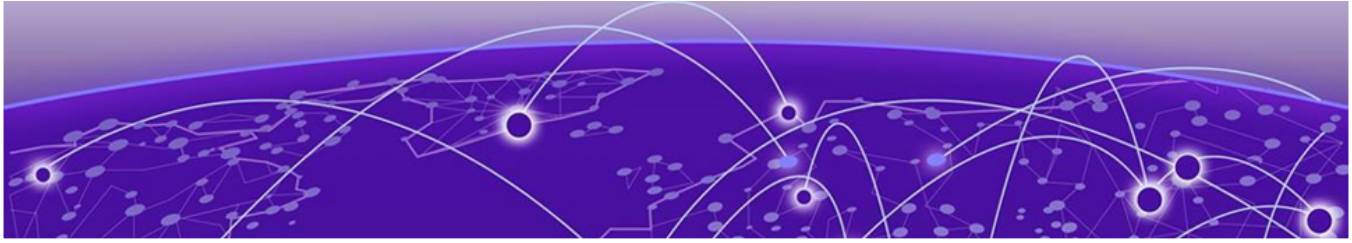
Debug-Summary

Message Text

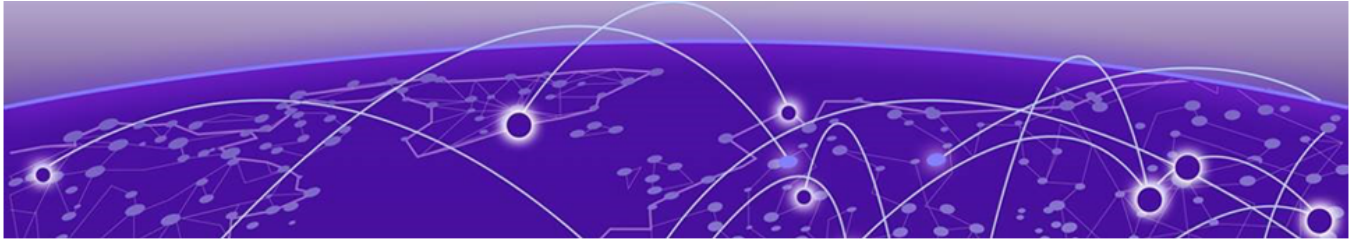
```
%format%
```

Message Parameters

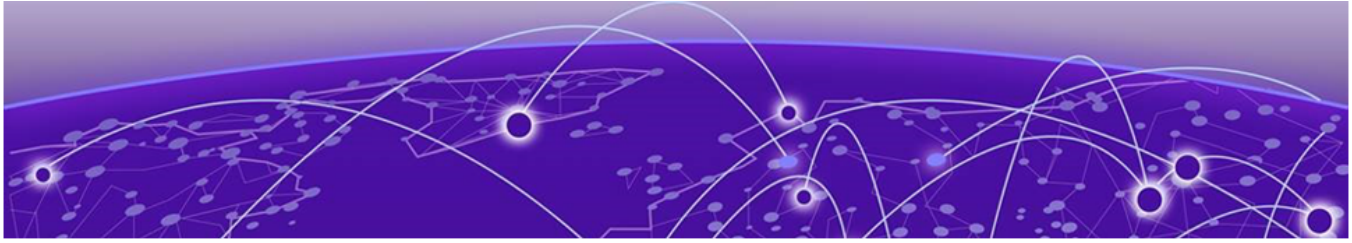
Name	Type
format	Printf



ExtLibA.AccessList Messages



ExtLibA.ActvRtQuery Messages



ExtLibA.BFD Messages

ExtLibA.BFD.InitLibFail on page 1356
ExtLibA.BFD.InitRsrcFail on page 1356
ExtLibA.BFD.InitOK on page 1357
ExtLibA.BFD.DstryOK on page 1357
ExtLibA.BFD.BFDIJoinEst on page 1358
ExtLibA.BFD.BFDIJoinTerm on page 1359
ExtLibA.BFD.BFDIJoinFailOvr on page 1359
ExtLibA.BFD.BFDIJoinFail on page 1360
ExtLibA.BFD.DropIPSFmUnkPrtnr on page 1361
ExtLibA.BFD.CreatSessOK on page 1361
ExtLibA.BFD.CreatSessRsrcFail on page 1362
ExtLibA.BFD.DstrySessOK on page 1363
ExtLibA.BFD.RecvDelReqSessNonExist on page 1364
ExtLibA.BFD.SessAttach on page 1364
ExtLibA.BFD.SessDtach on page 1365
ExtLibA.BFD.SessUp on page 1366
ExtLibA.BFD.SessDown on page 1367
ExtLibA.BFD.SessAdminDown on page 1368
ExtLibA.BFD.NumStateChgExcss on page 1368
ExtLibA.BFD.NumParmChgExcss on page 1369
ExtLibA.BFD.RecvInvMIBMsg on page 1370
ExtLibA.BFD.RfusAttachFmUnkJoin on page 1371
ExtLibA.BFD.RfusAttachAlrdyAttach on page 1372
ExtLibA.BFD.RfusAttachInvPeerAddr on page 1373
ExtLibA.BFD.CreatSessIndxExhst on page 1373
ExtLibA.BFD.RfusAttachInvSrcAddr on page 1374
ExtLibA.BFD.MntnSessStateRstrtJoin on page 1375
ExtLibA.BFD.SessRcvryFmRstrtJoinOK on page 1376
ExtLibA.BFD.SendClntRegReqFail on page 1376
ExtLibA.BFD.EnqueClntRegReq on page 1377
ExtLibA.BFD.SendClntUnregReqFail on page 1378
ExtLibA.BFD.EnqueClntUnregReq on page 1378
ExtLibA.BFD.SendSessCreatReqFail on page 1379
ExtLibA.BFD.SendSessDelReqFail on page 1380

ExtLibA.BFD.GetIfInfoFail on page 1381
ExtLibA.BFD.DelSessBySrvr on page 1381

ExtLibA.BFD.InitLibFail

Description

BFD creation failed because a required software library failed to initialize. This may be due to lack of memory. BFD creation failed. BFD failed to initialize.

Remedy

Retry BFD initialization. Investigate whether there was a shortage of memory on this system and, if so, make some more memory available.

Severity

Error

Message Text

BFD creation failed because a required library failed to initialize. BFD entity index = `%p1%`

Message Parameters

Name	Type
p1	sInt32

ExtLibA.BFD.InitRsrcFail

Description

BFD failed to initialize due to lack of memory. BFD creation failed. BFD failed to initialize.

Remedy

Retry BFD initialization. Investigate the shortage of memory on this system. Make more memory available on this system.

Severity

Error

Message Text

BFD failed to initialize due to lack of memory. BFD entity index = %p1%

Message Parameters

Name	Type
p1	sInt32

ExtLibA.BFD.InitOK

Description

BFD stub initialized OK. Creation successful.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

The BFD Stub has initialized successfully. BFD entity index = %p1% Process Id = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

ExtLibA.BFD.DstryOK

Description

BFD stub destroyed. Stub destroyed successful.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

The BFD Stub has been destroyed. BFD entity index = %p1% Process Id = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

ExtLibA.BFD.BFDIJoinEst

Description

A control plane component has successfully established a BFDI join with the BFD stub.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A control plane component has established a BFDI join with the BFD stub. BFD entity index = %p1% Restart supported = %p2%(%p3%) Control plane entity type = %p4% Control plane entity index = %p5% Control plane component process ID = %p6%

Message Parameters

Name	Type
p1	sInt32
p2	String
p3	uInt8
p4	xInt32
p5	sInt32
p6	uInt32

ExtLibA.BFD.BFDIJoinTerm

Description

A control plane component has terminated a BFDI join with the BFD stub.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A control plane component has terminated a BFDI join with the BFD stub. BFD entity index = `%p1%` Control plane entity type = `%p2%` Control plane entity index = `%p3%` Control plane component process ID = `%p4%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32
p3	sInt32
p4	uInt32

ExtLibA.BFD.BFDIJoinFailOvr

Description

A BFDI join to a control plane component has failed over. If restart is supported for this join the BFD stub will maintain the current BFD sessions until the failover timer fires. If restart is supported for this join the backup instance of the control plane component can reestablish the BFDI join and resynchronize with BFD sessions with which it was attached.

Remedy

Determine which control plane component has failed by using the indicated process id and investigate.

Severity

Warning

Message Text

A BFDI join to a control plane component has failed over. BFD entity index = %p1% Control plane entity type = %p2% Control plane entity index = %p3% Control plane component process ID = %p4%

Message Parameters

Name	Type
p1	sInt32
p2	xInt32
p3	sInt32
p4	uInt32

ExtLibA.BFD.BFDIJoinFail

Description

A BFDI join to a control plane component has failed. If restart is supported for this join the BFD stub will maintain the current BFD protocol sessions until the failover timer fires.

Remedy

Determine which control plane component has failed by using the indicated process id and investigate.

Severity

Warning

Message Text

A BFDI join to a control plane component has failed. BFD entity index = %p1% Control plane entity type = %p2% Control plane entity index = %p3% Control plane component process ID = %p4%

Message Parameters

Name	Type
p1	sInt32
p2	xInt32
p3	sInt32
p4	uInt32

ExtLibA.BFD.DropIPSFmUnkPrtnr

Description

BFD received an IPS over the BFDI from an unknown join partner. The IPS was ignored.

Remedy

If BFD is being brought down, this log is normal and should be ignored. Otherwise, gather diagnostics and investigate.

Severity

Warning

Message Text

BFD ignored a stale message across the BFDI from an unknown partner. BFD entity index = `%p1%` Sender process ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32

ExtLibA.BFD.CreatSessOK

Description

A BFD session has been created.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A BFD session has been created. BFD entity index = %p1% Session index = %p2% Interface index = %p3% Address Type = %p4%(%p5%) Peer Address = %p6% Local Address = %p7%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32
p4	String
p5	uInt8
p6	VarFmtByteArray
p7	VarFmtByteArray

ExtLibA.BFD.CreatSessRsrcFail

Description

An attempt to create a BFD session has failed due to lack of memory. Bidirectional Forwarding Detection will not operate to this peer.

Remedy

Investigate the shortage of memory on this system. Make more memory available on this system.

Severity

Warning

Message Text

BFD session creation has failed. BFD entity index = %p1% Interface index = %p2% Address Type = %p3%(%p4%) Peer Address = %p5% Local Address = %p6%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	String
p4	uInt8
p5	VarFmtByteArray
p6	VarFmtByteArray

ExtLibA.BFD.DstrySessOK

Description

A BFD session has been destroyed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A BFD session has been destroyed. BFD entity index = `%p1%` Session index = `%p2%` Interface index = `%p3%` Address Type = `%p4%`(`%p5%`) Peer Address = `%p6%` Local Address = `%p7%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32
p4	String
p5	uInt8
p6	VarFmtByteArray
p7	VarFmtByteArray

ExtLibA.BFD.RecvDelReqSessNonExist

Description

A deletion request has been received but there is no corresponding attachment to a BFD session. The request was ignored.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A deletion request for a non-existent BFD session has been received. BFD entity index = `%p1%` Interface index = `%p2%` Address Type = `%p3%`(`%p4%`) Peer Address = `%p5%` Local Address = `%p6%` Control plane entity type = `%p7%` Control plane entity index = `%p8%` Control plane component process ID = `%p9%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	String
p4	uInt8
p5	VarFmtByteArray
p6	VarFmtByteArray
p7	xInt32
p8	sInt32
p9	uInt32

ExtLibA.BFD.SessAttach

Description

A control plane component has attached to a BFD session. The control plane component will be informed of BFD session status.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A control plane component has attached to a BFD session. BFD entity index = `%p1%` Session Index = `%p2%` Interface index = `%p3%` Address Type = `%p4%`(`%p5%`) Peer Address = `%p6%` Local Address = `%p7%` Control plane entity type = `%p8%` Control plane entity index = `%p9%` Control plane component process ID = `%p10%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32
p4	String
p5	uInt8
p6	VarFmtByteArray
p7	VarFmtByteArray
p8	xInt32
p9	xInt32
p10	uInt32

ExtLibA.BFD.SessDtach

Description

A control plane component has detached from a BFD session. The control plane component will no longer be informed of BFD session status.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A control plane component has detached from a BFD session. BFD entity index = %p1% Session Index = %p2% Interface index = %p3% Address Type = %p4%(%p5%) Peer Address = %p6% Local Address = %p7% Control plane entity type = %p8% Control plane entity index = %p9% Control plane component process ID = %p10%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32
p4	String
p5	uInt8
p6	VarFmtByteArray
p7	VarFmtByteArray
p8	xInt32
p9	xInt32
p10	uInt32

ExtLibA.BFD.SessUp

Description

A BFD session has come up. All control plane components attached to this session will be sent an UP indication.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A BFD session has come up. BFD entity index = %p1% Session Index = %p2% Interface index = %p3% Address Type = %p4%(%p5%) Peer Address = %p6% Local Address = %p7%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32
p4	String
p5	uInt8
p6	VarFmtByteArray
p7	VarFmtByteArray

ExtLibA.BFD.SessDown

Description

A BFD session has gone down. All control plane components attached to this session will be sent a DOWN indication.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A BFD session has gone down. BFD entity index = `%p1%` Session Index = `%p2%` Interface index = `%p3%` Address Type = `%p4%`(`%p5%`) Peer Address = `%p6%` Local Address = `%p7%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32
p4	String
p5	uInt8
p6	VarFmtByteArray
p7	VarFmtByteArray

ExtLibA.BFD.SessAdminDown

Description

A BFD session has been brought administratively down. Control plane components attached to this session will be send a DOWN indication.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A BFD session has been brought administratively down. BFD entity index = `%p1%` Session Index = `%p2%` Interface index = `%p3%` Address Type = `%p4%`(`%p5%`) Peer Address = `%p6%` Local Address = `%p7%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32
p4	String
p5	uInt8
p6	VarFmtByteArray
p7	VarFmtByteArray

ExtLibA.BFD.NumStateChgExcss

Description

An excessive number of state changes have occurred on a a BFD session without it being possible to inform an attached control plane component. This is likely to be a software error. The control plane component will not be accurately informed of the number of state changes it has missed.

Remedy

Gather diagnostics and investigate.

Severity

Warning

Message Text

Excessive number of state changes on BFD session since last time control plane component was informed. BFD entity index = %p1% Session Index = %p2% Interface index = %p3% Address Type = %p4%(%p5%) Peer Address = %p6% Local Address = %p7% Control plane entity type = %p8% Control plane entity index = %p9% Control plane component process ID = %p10%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32
p4	String
p5	uInt8
p6	VarFmtByteArray
p7	VarFmtByteArray
p8	xInt32
p9	xInt32
p10	uInt32

ExtLibA.BFD.NumParmChgExcss

Description

An excessive number of parameter changes have occurred on a a BFD session without it being possible to inform an attached control plane component. The control plane component will not be accurately informed of the number of parameter changes it has missed. This is likely to be a software error.

Remedy

Gather diagnostics and investigate.

Severity

Warning

Message Text

Excessive number of parameter changes on BFD session since last time control plane component was informed. BFD entity index = %p1% Session Index = %p2% Interface index = %p3% Address Type = %p4%(%p5%) Peer Address = %p6% Local Address = %p7% Control plane entity type = %p8% Control plane entity index = %p9% Control plane component process ID = %p10%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32
p4	String
p5	uInt8
p6	VarFmtByteArray
p7	VarFmtByteArray
p8	xInt32
p9	xInt32
p10	uInt32

ExtLibA.BFD.RecvInvMIBMsg

Description

An invalid MIB message has been received. This is likely to be a software error. The message was ignored.

Remedy

Gather diagnostics and investigate.

Severity

Error

Message Text

An invalid MIB message has been received. BFD entity index = %p1%

Message Parameters

Name	Type
p1	sInt32

ExtLibA.BFD.RfusAttachFmUnkJoin

Description

An attempt to attach to a BFD session has been received from a control plane component that does not have an established join with the BFD stub. This is a transient condition. The request was rejected.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Attempt to attach to BFD session across unestablished join. BFD entity index = %p1% Interface index = %p2% Address Type = %p3%(%p4%) Peer Address = %p5% Local Address = %p6% Control plane entity type = %p7% Control plane entity index = %p8% Control plane component process ID = %p9%

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	String
p4	uInt8
p5	VarFmtByteArray
p6	VarFmtByteArray
p7	xInt32

Name	Type
p8	sInt32
p9	uInt32

ExtLibA.BFD.RfusAttachAlrdyAttach

Description

An attempt to attach to a BFD session has been received from a control plane component that has already attached to this session. This indicates a software error causing a loss of synchronization between stub and control plane component. The request was rejected.

Remedy

Gather diagnostics and investigate.

Severity

Warning

Message Text

An invalid MIB message has been received. BFD entity index = `%p1%` Interface index = `%p2%` Address Type = `%p3%`(`%p4%`) Peer Address = `%p5%` Local Address = `%p6%` Control plane entity type = `%p7%` Control plane entity index = `%p8%` Control plane component process ID = `%p9%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	String
p4	uInt8
p5	VarFmtByteArray
p6	VarFmtByteArray
p7	xInt32
p8	sInt32
p9	uInt32

ExtLibA.BFD.RfusAttachInvPeerAddr

Description

An invalid peer address has been specified by a control plane component attempting to attach to a BFD session. The request was rejected.

Remedy

Gather diagnostics and investigate.

Severity

Warning

Message Text

Martian destination peer address has been specified. BFD entity index = `%p1%` Address Type = `%p2%`(`%p3%`) Peer Address = `%p4%` Control plane entity type = `%p5%` Control plane entity index = `%p6%` Control plane component process ID = `%p7%`

Message Parameters

Name	Type
p1	sInt32
p2	String
p3	uInt8
p4	VarFmtByteArray
p5	xInt32
p6	sInt32
p7	uInt32

ExtLibA.BFD.CreatSessIndxExhst

Description

An attempt to create a BFD session has failed due to index exhaustion. Bidirectional Forwarding Detection will not operate to this peer.

Remedy

Investigate whether there really is a huge number of active sessions. If there is not then this is likely to be a software error. If there is a huge number of sessions then determine if some sessions can be closed.

Severity

Warning

Message Text

BFD session creation has failed due to index exhaustion. BFD entity index = `%p1%` Interface index = `%p2%` Address Type = `%p3%`(`%p4%`) Peer Address = `%p5%` Peer Address = `%p6%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	String
p4	uInt8
p5	VarFmtByteArray
p6	VarFmtByteArray

ExtLibA.BFD.RfusAttachInvSrcAddr

Description

An invalid source address has been specified by a control plane component attempting to attach to a BFD session. The request was rejected.

Remedy

Gather diagnostics and investigate.

Severity

Warning

Message Text

An invalid destination source address has been specified.

Message Parameters

Name	Type
p1	sInt32
p2	String
p3	uInt8
p4	VarFmtByteArray
p5	xInt32
p6	sInt32
p7	uInt32

ExtLibA.BFD.MntnSessStateRstrtJoin

Description

Session state has been preserved following a BFDI join to a control plane component going. BFD will continue to maintain the sessions belonging to this join on a timer. If the timer pops, any sessions that have not been re-added by the master will be terminated.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Session state has been temporarily preserved for restart processing. BFD entity index = `%p1%` Control plane entity type = `%p2%` Control plane entity index = `%p3%` Control plane component process ID = `%p4%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32
p3	sInt32
p4	uInt32

ExtLibA.BFD.SessRcvryFmRstrtJoinOK

Description

A BFD session has been recovered from a restarting join.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A BFD application session has been recovered from a restarting join. BFD entity index = `%p1%` Session Index = `%p2%` Interface index = `%p3%` Address Type = `%p4%`(`%p5%`) Peer Address = `%p6%` Local Address = `%p7%` Control plane entity type = `%p8%` Control plane entity index = `%p9%` Control plane component process ID = `%p10%`

Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32
p4	String
p5	uInt8
p6	VarFmtByteArray
p7	VarFmtByteArray
p8	xInt32
p9	xInt32
p10	uInt32

ExtLibA.BFD.SendClntRegReqFail

Description

Failed to send register request from a control plane component to BFD server. Possible error codes: -5 BFD_CLNTSVR_RESOURCE_UNAVAIL, -106 BFD_CLNTSVR_CONNECTION_ERROR, -107 BFD_CLNTSVR_COMMUNICATION_ERROR. The register request was rejected.

Remedy

Investigate based on the error return code.

Severity

Error

Message Text

A control plane component failed to send register request to BFD server. BFD entity index=%p1%, VR ID=%p2%, Client ID=%p3%, Error code=%p4%

Message Parameters

Name	Type
p1	sInt32
p2	sInt32
p3	sInt32
p4	sInt

ExtLibA.BFD.EnqueClntRegReq

Description

A control plane component register request to BFD server was delayed until the connection to BFD server was ready. The register request was delayed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A control plane component register request to BFD server was delayed. BFD entity index=%p1%, VR ID=%p2%, Client ID=%p3%

Message Parameters

Name	Type
p1	sInt32
p2	sInt32
p3	sInt32

ExtLibA.BFD.SendClntUnregReqFail

Description

A control plane component failed to send unregister request to BFD server. Possible error codes: -5 BFD_CLNTSVR_RESOURCE_UNAVAIL, -106 BFD_CLNTSVR_CONNECTION_ERROR, -107 BFD_CLNTSVR_COMMUNICATION_ERROR, -108 BFD_CLNTSVR_NUM_SESSIONS_NOT_ZERO. The unregister request was rejected.

Remedy

Investigate based on the error return code.

Severity

Error

Message Text

A control plane component failed to send unregister request to BFD server. BFD entity index=`%p1%`, VR ID=`%p2%`, Client ID=`%p3%`, Error code=`%p4%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt32
p3	sInt32
p4	sInt

ExtLibA.BFD.EnqueClntUnregReq

Description

A control plane component unregister request to BFD server was delayed until all associated BFD application sessions were deleted. The register request was delayed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A control plane component unregister request to BFD server was delayed. BFD entity index=%p1%, VR ID=%p2%, Client ID=%p3%

Message Parameters

Name	Type
p1	sInt32
p2	sInt32
p3	sInt32

ExtLibA.BFD.SendSessCreatReqFail

Description

Failed to send a BFD session create request to BFD server on behave of a control plane component. Possible error codes: -5 BFD_CLNTSVR_RESOURCE_UNAVAIL, -102 BFD_CLNTSVR_CLIENTID_DOES_NOT_EXIST, -106 BFD_CLNTSVR_CONNECTION_ERROR, -107 BFD_CLNTSVR_COMMUNICATION_ERROR. The request was rejected.

Remedy

Investigate based on the error return code.

Severity

Error

Message Text

Failed to send a BFD session create request to BFD server. BFD entity index=%p1%, VR ID=%p2%, Client ID=%p3%, Interface index=%p4%, Address Type=%p5%(%p6%), Peer Address=%p7%, Error code=%p8%

Message Parameters

Name	Type
p1	sInt32
p2	sInt32
p3	sInt32
p4	uInt32
p5	String
p6	uInt8
p7	VarFmtByteArray
p8	sInt

ExtLibA.BFD.SendSessDelReqFail

Description

Failed to send BFD session delete request to BFD server on behave of a control plane component. Possible error codes: -5 BFD_CLNTSVR_RESOURCE_UNAVAIL, -107 BFD_CLNTSVR_COMMUNICATION_ERROR. The request was rejected.

Remedy

Investigate based on the error return code.

Severity

Error

Message Text

Failed to send BFD session delete request to BFD server. BFD entity index=`%p1%`, VR ID=`%p2%`, Client ID=`%p3%`, Interface index=`%p4%`, Address Type=`%p5%`(`%p6%`), Peer Address=`%p7%`, Error code=`%p8%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt32
p3	sInt32
p4	uInt32
p5	String

Name	Type
p6	uInt8
p7	VarFmtByteArray
p8	sInt

ExtLibA.BFD.GetIfInfoFail

Description

Failed to get interface information for BFD session create request. The request was rejected.

Remedy

This is a rare internal condition, restart process/reboot system may be required.

Severity

Error

Message Text

Failed to get interface information for BFD session create request. BFD entity index=`%p1%`, VR ID=`%p2%`, Client ID=`%p3%`, Interface index=`%p4%`, Address Type=`%p5%` (`%p6%`), Peer Address=`%p7%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt32
p3	sInt32
p4	uInt32
p5	String
p6	uInt8
p7	VarFmtByteArray

ExtLibA.BFD.DelSessBySrvr

Description

Deleted BFD session as requested by BFD server.

Remedy

No action required - Informational message only.

Severity

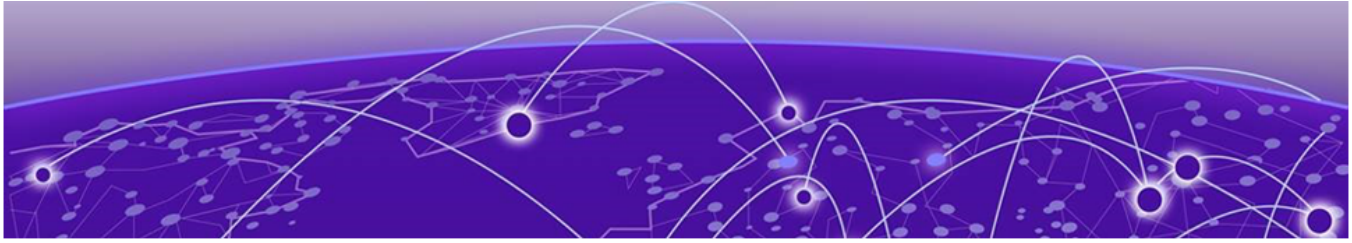
Info

Message Text

Delete BFD session as requested by BFD server. BFD entity index=%p1%, VR ID=%p2%, Client ID=%p3%, Interface index=%p4%, Address Type=%p5%(%p6%), Peer Address=%p7%

Message Parameters

Name	Type
p1	sInt32
p2	sInt32
p3	sInt32
p4	uInt32
p5	String
p6	uInt8
p7	VarFmtByteArray



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ExtLibA.EntityMgr.IntFSMErr

Description

This is an internal logic error within System Manager. System Manager terminates.

Remedy

Internal error - contact support with details of the problem.

Severity

Error

Message Text

FSM error. Action = `%p1%` Event = `%p2%` State = `%p3%`

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	uInt8

ExtLibA.EntityMgr.SysInitRsrcFail

Description

System Manager has failed to initialize because resources were not available. System Manager terminates.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to initialize because resources were unavailable.

ExtLibA.EntityMgr.ProcEntityFSMIn

Description

System Manager processed an Entity FSM input.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Entity FSM input. Entity type = `%p1%` Entity index = `%p2%` Action = `%p3%` Event = `%p4%` Old state = `%p5%` New state = `%p6%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	uInt8
p4	uInt8
p5	uInt8
p6	uInt8

ExtLibA.EntityMgr.ProcInstcFSMIn

Description

System Manager processed an Instance FSM input.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Instance FSM input. Instance index = %p1% Action = %p2% Event = %p3% Old state = %p4% New state = %p5%

Message Parameters

Name	Type
p1	xInt32
p2	uInt8
p3	uInt8
p4	uInt8
p5	uInt8

ExtLibA.EntityMgr.ProcJoinFSMIn

Description

System Manager processed a Join FSM input.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Join FSM input. Master entity type = %p1% Master entity index = %p2% Slave entity type = %p3% Slave entity index = %p4% Action = %p5% Event = %p6% Old state = %p7% New state = %p8%

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt32
p4	HexByteArray
p5	uInt8
p6	uInt8
p7	uInt8
p8	uInt8

ExtLibA.EntityMgr.RegNewEntityType

Description

A new entity type was registered with System Manager.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

New entity type registered with System Manager. Entity type = `%p1%`

Message Parameters

Name	Type
p1	xInt32

ExtLibA.EntityMgr.IncrMaxNumFSMIn

Description

The maximum number of FSM inputs that can exist within System Manager at any one time was increased.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Increased maximum number of FSM inputs. Number of FSM inputs = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.IncrMaxNumFSMInFail

Description

A resource failure occurred when System Manager attempted to increase the number of FSM inputs available to it. The current operation fails (this is an attempt to increase the number of instances or joins).

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

Failed to increase maximum number of FSM inputs. Number of FSM inputs = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.DropIPSFmUnkInstc

Description

System Manager dropped an ATG_FT_* message from an instance because it was not aware that the instance existed. This is a normal occurrence if an System Manager is informed of an instance abend before processing messages on the queue from the instance to System Manager.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Dropped IPS from unknown instance. IPS type = `%p1%`

Message Parameters

Name	Type
p1	xInt32

ExtLibA.EntityMgr.DropIPSForUnkJoin

Description

System Manager dropped an ATG_FT_* message from an instance because it was not aware that the join that the message related to existed. This is a normal occurrence if System Manager receives a message from an old instance when it is already aware of a new replacement instance.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Dropped IPS for an unknown join. IPS type = `%p1%`

Message Parameters

Name	Type
p1	xInt32

ExtLibA.EntityMgr.GetIPSBufFail

Description

System Manager failed to get an IPS buffer because resources were not available. System Manager fails the operation.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to get an IPS buffer.

ExtLibA.EntityMgr.RepLocOperFail

Description

A location replication operation failed. The location may be disrupted if System Manager fails over.

Remedy

Investigate the cause of the replication failure. If this does not solve the problem, contact support.

Severity

Error

Message Text

A location replication operation failed. Replication action = %p1% Replication return code = %p2% Location index = %p3%

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	uInt32

ExtLibA.EntityMgr.EntityRepOperFail

Description

An entity replication operation failed. The entity may be disrupted if System Manager fails over.

Remedy

Investigate the cause of the replication failure. If this does not solve the problem, contact support.

Severity

Error

Message Text

An entity replication operation failed. Replication action = %p1% Replication return code = %p2% Entity type = %p3% Entity index = %p4%

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	xInt32
p4	HexByteArray

ExtLibA.EntityMgr.InstcRepOperFail

Description

An instance replication operation failed. The instance may be disrupted if System Manager fails over.

Remedy

Investigate the cause of the replication failure. If this does not solve the problem, contact support.

Severity

Error

Message Text

An instance replication operation failed. Replication action = `%p1%` Replication return code = `%p2%` Entity type = `%p3%` Entity index = `%p4%` Instance index = `%p5%`

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	xInt32
p4	HexByteArray
p5	xInt32

ExtLibA.EntityMgr.JoinRepOperFail

Description

A join replication operation failed. The join may be lost if System Manager fails over.

Remedy

Investigate the cause of the replication failure. If this does not solve the problem, contact support.

Severity

Error

Message Text

A join replication operation failed. Replication action = %p1% Replication return code = %p2% Master entity type = %p3% Master entity index = %p4% Slave entity type = %p5% Slave entity index = %p6%

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	xInt32
p4	HexByteArray
p5	xInt32
p6	HexByteArray

ExtLibA.EntityMgr.RecvNegStopRspns

Description

A negative ATG_FT_STOP_PRIMARY response was received by System Manager. This is a normal occurrence and indicates that the instance does not support returning from primary to backup.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Negative ATG_FT_STOP_PRIMARY response received. Instance index = %p1%

Message Parameters

Name	Type
p1	xInt32

ExtLibA.EntityMgr.CreatLocCBFail

Description

System Manager failed to create a location control block because resources were not available. System Manager fails the creation of the new location.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create a location control block.

ExtLibA.EntityMgr.CreatEntityTypeCBFail

Description

System Manager failed to create an entity type control block because resources were not available. System Manager fails the creation of the new entity type.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create an entity type control block.

ExtLibA.EntityMgr.CreatInstcCBFail

Description

System Manager failed to create an instance control block because resources were not available. System Manager fails the creation of the new instance.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create an instance control block.

ExtLibA.EntityMgr.CreatEntityCBFail

Description

System Manager failed to create an entity control block because resources were not available. System Manager fails the creation of the new entity.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create an entity control block.

ExtLibA.EntityMgr.CreatJoinCBFail

Description

System Manager failed to create a join control block because resources were not available. System Manager fails the creation of the new join.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create a join control block.

ExtLibA.EntityMgr.MIBStubAbend

Description

The MIB Stub has abended. System Manager abends.

Remedy

Investigate the cause of the MIB Stub abending.

Severity

Error

Message Text

MIB Stub has abended.

ExtLibA.EntityMgr.InstcAbend

Description

An instance has abended. If this instance was a primary and there are no backup instances that can take over, then the entity has failed.

Remedy

No remedy is available.

Severity

Info

Message Text

An instance has abended. Entity type = `%p1%` Entity index = `%p2%` Instance index = `%p3%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt32

ExtLibA.EntityMgr.DelJoin

Description

A join has been deleted.

Remedy

No remedy is available.

Severity

Info

Message Text

A join has been deleted. Master entity type = `%p1%` Master entity index = `%p2%` Slave entity type = `%p3%` Slave entity index = `%p4%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt32
p4	HexByteArray

ExtLibA.EntityMgr.CreatJoin

Description

A join has been created.

Remedy

No remedy is available.

Severity

Info

Message Text

A join has been created. Master entity type = `%p1%` Master entity index = `%p2%` Slave entity type = `%p3%` Slave entity index = `%p4%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt32
p4	HexByteArray

ExtLibA.EntityMgr.RecvJoinStateMsg

Description

System Manager received an ATG_FT_JOIN_STATUS message.

Remedy

No remedy is available.

Severity

Info

Message Text

System Manager received an ATG_FT_JOIN_STATUS message. Master entity type = `%p1%` Master entity index = `%p2%` Slave entity type = `%p3%` Slave entity index = `%p4%` Join status from the message = `%p5%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt32

Name	Type
p4	HexByteArray
p5	xInt32

ExtLibA.EntityMgr.RecalcInstcEntityPrio

Description

System Manager has recalculated the priorities for each instance to be primary/backup for one entity.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

System Manager has recalculated instance priorities for an entity. Entity type = `%p1%` Entity index = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray

ExtLibA.EntityMgr.ChgPrimInstcEntity

Description

System Manager has changed the primary instance for an entity.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

System Manager has changed the primary instance for an entity. Entity type = %p1% Entity index = %p2% Instance index = %p3% Instance primary priority = %p4%

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt32
p4	uInt32

ExtLibA.EntityMgr.RecvNegInitInstcMsg

Description

System Manager received a negative ATG_FT_INSTANCE_INITIALIZED indication message. This means an instance has failed to initialize properly. System Manager destroys the instance.

Remedy

This is not necessarily a problem, provided that another instance is available.

Severity

Error

Message Text

System Manager received a negative ATG_FT_INSTANCE_INITIALIZED message. Instance index = %p1% Instance status = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	uInt8

ExtLibA.EntityMgr.RecvNegSyncPrimMsg

Description

System Manager received a negative ATG_FT_SYNCHRONIZE_PRIMARY response message. System Manager destroys the instance.

Remedy

This is not necessarily a problem, provided that another instance is available.

Severity

Error

Message Text

System Manager received a negative ATG_FT_SYNCHRONIZE_PRIMARY message. Instance index = `%p1%` Return code = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	uInt8

ExtLibA.EntityMgr.RecvNegNewBkupMsg

Description

System Manager received a negative ATG_FT_NEW_BACKUP response message. System Manager destroys the backup instance.

Remedy

This is not necessarily a problem, provided that another instance is available.

Severity

Error

Message Text

System Manager received a negative ATG_FT_NEW_BACKUP message. Entity type = `%p1%` Entity index = `%p2%` Primary Instance index = `%p3%` Backup Instance index = `%p4%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt32
p4	xInt32

ExtLibA.EntityMgr.RecvNegPrtnrNewMsg

Description

System Manager received a negative ATG_FT_PARTNER_NEW response message. System Manager attempts to retry sending the message after a delay.

Remedy

This is likely to be a configuration problem.

Severity

Warning

Message Text

System Manager received a negative ATG_FT_PARTNER_NEW message. Master entity type = `%p1%` Master entity index = `%p2%` Slave entity type = `%p3%` Slave entity index = `%p4%` Primary slave instance index = `%p5%` Return code = `%p6%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt32
p4	HexByteArray
p5	xInt32
p6	uInt8

ExtLibA.EntityMgr.RecvNegPrtnrAvailMsg

Description

System Manager received a negative ATG_FT_PARTNER_AVAILABLE response message. System Manager attempts to retry sending the message after a delay.

Remedy

No remedy is available.

Severity

Error

Message Text

System Manager received a negative ATG_FT_PARTNER_AVAILABLE message. Master entity type = `%p1%` Master entity index = `%p2%` Slave entity type = `%p3%` Slave entity index = `%p4%` Primary master instance index = `%p5%` Return code = `%p6%`

Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt32
p4	HexByteArray
p5	xInt32
p6	uInt8

ExtLibA.EntityMgr.RecvBkupFailMsg

Description

System Manager received an ATG_FT_BACKUP_FAILED indication message. System Manager destroys the backup instance.

Remedy

This is not necessarily a problem, provided that another instance is available.

Severity

Warning

Message Text

System Manager received a negative ATG_FT_PARTNER_AVAILABLE message. Instance index = `%p1%`

Message Parameters

Name	Type
p1	xInt32

ExtLibA.EntityMgr.AgreeFTIVerForInstcFail

Description

System Manager failed to negotiate a common version of the HAF FTI interface to use with an instance. System manager destroys the instance.

Remedy

Investigate the IXL version negotiation failure.

Severity

Error

Message Text

System Manager failed to negotiate a common version of the HAF FTI interface to use with an instance. Instance index = `%p1%`

Message Parameters

Name	Type
p1	xInt32

ExtLibA.EntityMgr.CreatMIBStubFail

Description

System Manager failed to create the MIB Stub. System Manager abends.

Remedy

Investigate the cause of the failure.

Severity

Error

Message Text

System Manager failed to create the MIB Stub.

ExtLibA.EntityMgr.CreatIfCBFail

Description

System Manager failed to create an interface control block because resources were not available. System Manager fails to be created.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create an interface control block.

ExtLibA.EntityMgr.RegNewIfID

Description

A new interface ID was registered with System Manager.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

New interface ID registered with System Manager. Interface ID = %p1%

Message Parameters

Name	Type
p1	sInt32

ExtLibA.EntityMgr.CreatImplmCBFail

Description

System Manager failed to create an interface implementation control block because resources were not available. Implementation registration fails.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create an implementation control block.

ExtLibA.EntityMgr.CreatProdCBFail

Description

System Manager failed to create a product control block because resources were not available. Product specific SM component registration fails.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create a product control block.

ExtLibA.EntityMgr.CreatRtCBFail

Description

System Manager failed to create a route control block because resources were not available. Buffer route registration fails.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create a route control block.

ExtLibA.EntityMgr.CreatRtSrcCBFail

Description

System Manager failed to create a route source control block because resources were not available. Buffer route registration fails.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create a route source control block.

ExtLibA.EntityMgr.CreatRtTrgtCBFail

Description

System Manager failed to create a route target control block because resources were not available. Buffer route registration fails.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager failed to create a route target control block.

ExtLibA.EntityMgr.DtectIfRtLoop

Description

System Manager detected a loop while traversing the buffer route definitions to build the buffer size table. Buffer sizes calculations aborted.

Remedy

Contact support.

Severity

Error

Message Text

System Manager detected an interface route loop while processing Interface ID = `%p1%` Master setting = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	sInt8

ExtLibA.EntityMgr.DtectUnexpctDrctTransRt

Description

System Manager detected too many inbound/outbound transitions while traversing the buffer route definitions to build the buffer size table. Buffer sizes calculations aborted.

Remedy

Contact support.

Severity

Error

Message Text

System Manager detected unexpected direction transition in route Source Interface ID = %p1% Source Master setting = %p2% Target Interface ID = %p3% Target Master setting = %p4% Current direction = %p5% Route direction = %p6%

Message Parameters

Name	Type
p1	xInt32
p2	sInt8
p3	xInt32
p4	sInt8
p5	xInt
p6	xInt

ExtLibA.EntityMgr.InitCompFail

Description

System Manager could not initialize the specified SM-XXX component.

Remedy

No remedy is available.

Severity

Error

Message Text

System Manager failed to initialize SM-XXX component Product name = %p1%

Message Parameters

Name	Type
p1	String

ExtLibA.EntityMgr.RegOwnMIBFail

Description

System Manager failed to register one of its MIBs. System Manager terminates.

Remedy

Internal error - contact support with details of the problem.

Severity

Error

Message Text

System Manager failed to register one of its MIBs Family ID = `%p1%` Return code = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	sInt32

ExtLibA.EntityMgr.CfgLocExcdGrpMax

Description

A MIB request attempted to put a location into a location group that already contains the maximum allowed number of locations. In systems that are FT capable the maximum number of locations in a location group is 2; in systems that are not FT capable the maximum number of locations in a location group is 1. The MIB request is rejected.

Remedy

Deactivate one of the other locations and remove it from the location group then retry the MIB request.

Severity

Error

Message Text

Attempt to configure too many locations in a location group. Family ID = %p1% Family Name = %p2% Field ID = %p3% Field Name = %p4% Location Group Index = %p5% Maximum number of locations = %p6%

Message Parameters

Name	Type
p1	xInt32
p2	String
p3	xInt32
p4	String
p5	uInt32
p6	uInt32

ExtLibA.EntityMgr.CreatHwMgrStub

Description

System Manager failed to create the Hardware Manager Stub. System Manager abends.

Remedy

Investigate the cause of the failure.

Severity

Error

Message Text

System Manager failed to create the Hardware Manager Stub.

ExtLibA.EntityMgr.HwMgrStubAbend

Description

The Hardware Manager Stub has abended. System Manager abends.

Remedy

Investigate the cause of the Hardware Manager Stub abending.

Severity

Error

Message Text

Hardware Manager Stub has abended.

ExtLibA.EntityMgr.ProcLocFSMIn

Description

System Manager processed a Location FSM input.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Location FSM input. Location index = `%p1%` Action = `%p2%` Event = `%p3%` Old state = `%p4%` New state = `%p5%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt8
p3	uInt8
p4	uInt8
p5	uInt8

ExtLibA.EntityMgr.RecvHwMgrMsgLocNotCfg

Description

System Manager received a Hardware Manager Interface message for a location that is not configured in the location MIB. System Manager ignores the message.

Remedy

Investigate any Hardware Manager problems.

Severity

Warning

Message Text

System Manager received an message from Hardware Manager for a location that is not configured in the location MIB. Location index = `%p1%` IPS type = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32
p4	xInt32

ExtLibA.EntityMgr.RecvOKStrtLocMsg

Description

System Manager received a successful ATG_HM_START_LOCATION response message. This means that Hardware Manager started an N-BASE location successfully.

Remedy

No remedy is available.

Severity

Info

Message Text

System Manager started an N-BASE location. Location index = %p1% Location group index = %p2% Hardware location = %p3%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32

ExtLibA.EntityMgr.RecvNegStrtLocMsg

Description

System Manager received a negative ATG_HM_START_LOCATION response message. This means that Hardware Manager failed to start an N-BASE location. This may happen during normal fail over processing if the new backup location is temporarily unavailable.

Remedy

No remedy is available.

Severity

Info

Message Text

System Manager failed to start an N-BASE location. Location index = %p1% Location group index = %p2% Hardware location = %p3% Return code = %p4%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32
p4	uInt32

ExtLibA.EntityMgr.RecvOKStopLocMsg

Description

System Manager received a successful ATG_HM_STOP_LOCATION response message. This means that Hardware Manager stopped an N-BASE location successfully.

Remedy

No remedy is available.

Severity

Info

Message Text

System Manager stopped an N-BASE location. Location index = `%p1%` Location group index = `%p2%` Hardware location = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32

ExtLibA.EntityMgr.RecvNegStopLocMsg

Description

System Manager received a negative ATG_HM_STOP_LOCATION response message. This means that Hardware Manager failed to stop an N-BASE location. It is unlikely to be possible to restart the N-BASE location.

Remedy

Investigate any Hardware Manager problems.

Severity

Error

Message Text

System Manager failed to stop an N-BASE location. Location index = %p1% Location group index = %p2% Hardware location = %p3% Return code = %p4%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32
p4	uInt32

ExtLibA.EntityMgr.RecvNegSetLocInfoMsg

Description

System Manager received a negative ATG_HM_SET_LOCATION_INFO response message. This means that Hardware Manager failed to update the parameters for an N-BASE location. The N-BASE location does not use the new parameters.

Remedy

Investigate any Hardware Manager problems.

Severity

Error

Message Text

System Manager failed to update parameters for an N-BASE location. Location index = %p1% Location group index = %p2% Hardware location = %p3% Return code = %p4%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32
p4	uInt32

ExtLibA.EntityMgr.RecvNegGetLocInfoMsg

Description

System Manager received a negative ATG_HM_GET_LOCATION_INFO response message. This means that Hardware Manager failed to discover the parameters for an N-BASE location. This may happen during normal fail over processing if the new backup location is temporarily unavailable.

Remedy

No remedy is available.

Severity

Info

Message Text

System Manager failed to discover parameters for an N-BASE location. Location index = `%p1%` Location group index = `%p2%` Hardware location = `%p3%` Return code = `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32
p4	uInt32

ExtLibA.EntityMgr.RecvLocStatFailMsg

Description

System Manager received an ATG_HM_LOCATION_STATUS_IND message reporting an N-BASE location failure. All software running on the failed N-BASE location fails over to a backup N-BASE location if possible.

Remedy

Investigate any Hardware Manager problems.

Severity

Error

Message Text

N-BASE location failed. Location index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.RecvHwStatFailMsg

Description

System Manager received an ATG_HM_HARDWARE_STATUS_IND message reporting a hardware location failure. All software running on the failed hardware location fails over to a backup locations if possible.

Remedy

Investigate any Hardware Manager problems.

Severity

Error

Message Text

Hardware location failed. Hardware location = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.MultiEntityRegSameType

Description

Multiple entities attempted to register the same entity type with System Manager during System Manager initialization. Each entity must register using a unique entity type. Use of the same entity type by multiple entities is likely to be the result of an

incorrect entity implementation or an inconsistent build. System Manager loads the first entity but not the second entity. Even so, the existence of the second entity may cause further problems.

Remedy

Investigate the entity implementations and build to remove the entity type clash.

Severity

Error

Message Text

Multiple entities attempted to register the same entity type. Entity type = `%p1%` First entity name = `%p2%` Second entity name = `%p3%`

Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	CharByteArray

ExtLibA.EntityMgr.BecPrimFailRsrcUnavail

Description

A System Manager instance has failed to become primary System Manager instance because resources were not available. The System Manager instance remains a backup instance.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

System Manager instance failed to become primary because resources were unavailable.

ExtLibA.EntityMgr.RecvStatFailLocMsg

Description

System Manager received an ATG_HM_LOCATION_STATUS_IND or ATG_HM_HARDWARE_STATUS_IND message reporting failure of the N-BASE location that it is running on. System Manager abends.

Remedy

Investigate any Hardware Manager problems.

Severity

Error

Message Text

Local N-BASE location failed. Location index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.PrimInstcAbend

Description

The primary System Manager instance has abended. The backup System Manager instance takes over as primary.

Remedy

Investigate the cause of the primary System Manager abending.

Severity

Warning

Message Text

The primary System Manager instance has abended. Primary SM location index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.BkupInstcAbend

Description

The backup System Manager instance has abended. The primary System Manager instance continues without a backup.

Remedy

Investigate the cause of the backup System Manager abending.

Severity

Warning

Message Text

The backup System Manager instance has abended. Backup SM location index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.PrimInstcStrt

Description

A primary System Manager instance has started.

Remedy

No remedy is available.

Severity

Info

Message Text

Primary System Manager instance started. Location index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.BkupInstcStrt

Description

A backup System Manager instance has started.

Remedy

No remedy is available.

Severity

Info

Message Text

Backup System Manager instance started. Location index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.PromoBkupInstcToPrim

Description

A backup System Manager instance has been promoted to primary.

Remedy

No remedy is available.

Severity

Info

Message Text

Backup System Manager instance promoted to primary. Location index = %p1%

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.DemoPrimInstcToBkup

Description

A primary System Manager instance has been demoted to backup.

Remedy

No remedy is available.

Severity

Info

Message Text

Primary System Manager instance demoted to backup. Location index = %p1%

Message Parameters

Name	Type
p1	uInt32

ExtLibA.EntityMgr.RegHwMgrStubFail

Description

System Manager received a negative ATG_HM_REGISTER_SM response message. This means that System Manager failed to register with the Hardware Manager Stub. System Manager abends.

Remedy

Investigate the cause of the failure.

Severity

Error

Message Text

System Manager failed to register with the Hardware Manager Stub. Location index = `%p1%` Location group index = `%p2%` Hardware location = `%p3%` Return code = `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	uInt32
p4	uInt32

ExtLibA.EntityMgr.NoCompSuprtReqIf

Description

System Manager received a request to join to an interface, but no software component on the system supports that interface. Typically, this is caused because the required component has not been installed. The application requiring this interface may fail to function. Look for another log giving further details.

Remedy

Investigate which software components are installed, to determine if one is missing.

Severity

Error

Message Text

No software component supports the requested interface. Interface ID = `%p1%`

Message Parameters

Name	Type
p1	xInt32

ExtLibA.EntityMgr.MultiCompSuprtReqIf

Description

System Manager received a request to join to an interface. More than one software component on the system supports that interface, and system manager cannot determine the correct one to use. The application requiring this interface may fail to function. Look for another log giving further details.

Remedy

Investigate whether the correct software components are installed. Contact support for further information.

Severity

Error

Message Text

More than one software component supports the requested interface. System Manager cannot determine which one to use. Interface ID = `%p1%` First component ID = `%p2%` Second component ID = `%p3%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt32
p3	sInt32

ExtLibA.EntityMgr.RepReqCBNotFnd

Description

Backup System Manager received a Test Commit or a Modify replication message for a control block which does not exist. Replication request is not progressed.

Remedy

Contact support.

Severity

Warning

Message Text

System Manager could not locate a CB for a replication request. CB type = %p1%
Replication message type = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	xInt8

ExtLibA.EntityMgr.StrtEntityUndefMIBStrt

Description

A MIB request to start an entity (product) has failed because that entity is currently defined not to allow starting by MIB request. Product fails to start.

Remedy

Check if the MIB request is correct. If it appears to be, contact support.

Severity

Error

Message Text

MIB request to start entity failed because entity is not currently MIB starting. Entity name = %p1% Entity ID = %p2%

Message Parameters

Name	Type
p1	CharByteArray
p2	xInt32

ExtLibA.EntityMgr.ActvEntityManCreatDsbl

Description

An attempt to start an entity (product) has failed because SM of SM does not allow creation by "manual creation". Product fails to start.

Remedy

Contact support - the image(s) are inconsistent.

Severity

Error

Message Text

Entity activation failed because manual creation is disabled. Entity name = `%p1%` Entity ID = `%p2%`

Message Parameters

Name	Type
p1	CharByteArray
p2	xInt32

ExtLibA.EntityMgr.MIBHndlAbend

Description

The MIB Handler has abended. System Manager abends.

Remedy

Investigate the cause of the MIB Handler abending.

Severity

Error

Message Text

MIB Handler has abended.

ExtLibA.EntityMgr.ActvCSSLocFail

Description

The location CSS is running on has failed during CSS activation. CSS will not run in the system.

Remedy

Investigate the cause of the location failure. To enable CSS support, it is necessary to restart the system.

Severity

Error

Message Text

CSS location index `%p1%` failed during CSS activation.

Message Parameters

Name	Type
p1	sInt32

ExtLibA.EntityMgr.SendStrtReplayBufPost

Description

System Manager didn't send a CSS configuration replay request for a failed location because a buffer post request was outstanding.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

SM didn't send CSS replay because buffer post was outstanding.

ExtLibA.EntityMgr.SendStrtReplayOK

Description

An ATG_CSS_START_REPLAY message was sent to CSS.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

AN ATG_CSS_START_REPLAY message was sent to CSS. replay_all = `%p1%` correlator = `%p2%` more_entities = `%p3%`

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	uInt8

ExtLibA.EntityMgr.AddLocGrpFailListReplay

Description

A location failed, and the location group was added to the failed location group list for CSS configuration replay.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Location group `%p1%` added to failed list for CSS replay.

Message Parameters

Name	Type
p1	sInt32

ExtLibA.EntityMgr.PostStrtReplayBufMsg

Description

System Manager posted for a buffer for an ATG_CSS_START_REPLAY message.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

SM posted for a buffer for CSS replay message.

ExtLibA.EntityMgr.RecvStrtReplayRspns

Description

An ATG_CSS_START_REPLAY response was received from CSS.

Remedy

No remedy is available.

Severity

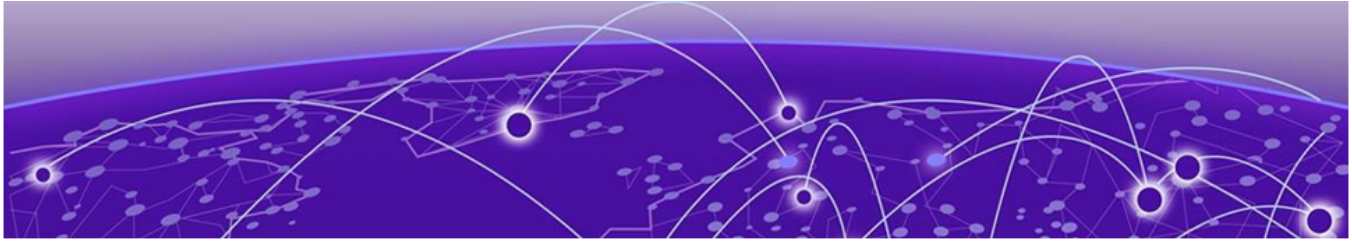
Debug-Verbose

Message Text

AN ATG_CSS_START_REPLAY response received from CSS. replay_all = `%p1%` correlator = `%p2%` more_entities = `%p3%`

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	uInt8



ExtLibA.Framework Messages

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ExtLibA.Framework.SlaveJoinFSMFail on page 1434
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ExtLibA.Framework.RecvRepRspnsBkupNotFnd on page 1436

ExtLibA.Framework.IntFSMErr

Description

No description is available.

Remedy

Internal error - contact support with details of the problem.

Severity

Error

Message Text

HAF Library instance FSM error.\nAction = `%p1%`\n Event = `%p2%`\n State = `%p3%`\n

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	uInt8

ExtLibA.Framework.MstrJoinFSMFail

Description

No description is available.

Remedy

Internal error - contact support with details of the problem.

Severity

Error

Message Text

HAF Library master join FSM error.\nAction = %p1%\n Event = %p2%\n State = %p3%\n

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	uInt8

ExtLibA.Framework.SlaveJoinFSMFail

Description

No description is available.

Remedy

Internal error - contact support with details of the problem.

Severity

Error

Message Text

HAF Library slave join FSM error.\nAction = %p1%\n Event = %p2%\n State = %p3%\n

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	uInt8

ExtLibA.Framework.AllocNewCBTypeRsrcFail

Description

No description is available.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

The HAF Library failed to allocate resources for a new CB type.\nCB type = `%p1%`\n

Message Parameters

Name	Type
p1	xInt32

ExtLibA.Framework.BkupFSMErr

Description

No description is available.

Remedy

Internal error - contact support with details of the problem.

Severity

Error

Message Text

HAF Library backup FSM error.\nAction = %p1%\n Event = %p2%\n State = %p3%\n

Message Parameters

Name	Type
p1	uInt8
p2	uInt8
p3	uInt8

ExtLibA.Framework.RecvRepRspnsBkupNotFnd

Description

No description is available.

Remedy

None.

Severity

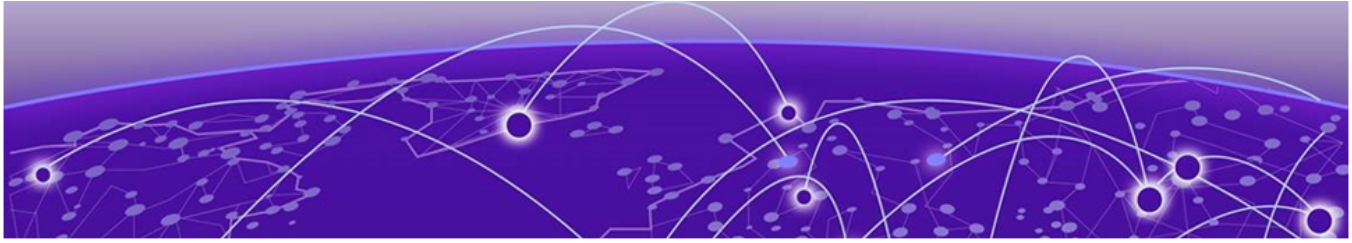
Warning

Message Text

HAF Library received a replication response for a non-existent backup.\nIPS type = %p1%\n

Message Parameters

Name	Type
p1	xInt32



ExtLibA.IfInfoIf Messages

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ExtLibA.IfInfoIf.TermAbnorm on page 1438
ExtLibA.IfInfoIf.ActvOK on page 1438
ExtLibA.IfInfoIf.GetNetIfInfoRsrcUnavail on page 1439
ExtLibA.IfInfoIf.ProcReqSendRtSockFail on page 1440
ExtLibA.IfInfoIf.ProcRtMsgRecvRtSockFail on page 1440
ExtLibA.IfInfoIf.AllocJoinRsrcFail on page 1441
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ExtLibA.IfInfoIf.AllocNetAddrRsrcFail on page 1442
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ExtLibA.IfInfoIf.CompLinkIDUnk on page 1446
ExtLibA.IfInfoIf.CompLinkBndlIfIDIncrct on page 1447
ExtLibA.IfInfoIf.CompLinkRqrQosNotPrvd on page 1448
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ExtLibA.IfInfoIf.RtrnNetIfInfoFail on page 1449
ExtLibA.IfInfoIf.AllocVIfRtInfoMemFail on page 1449

ExtLibA.IfInfoIf.InitFailRsrcUnavail

Description

Interface Information stub has failed to initialize because resources were not available. Interface Information stub terminates.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

Interface Information stub failed to initialize because resources were not available. LSR Index = `%p1%`

Message Parameters

Name	Type
p1	sInt32

ExtLibA.IfInfoIf.TermAbnorm

Description

Interface Information stub has terminated abnormally. Data forwarding ceases.

Remedy

Contact support.

Severity

Error

Message Text

Interface Information stub terminated abnormally. LSR Index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.IfInfoIf.ActvOK

Description

Interface Information stub activated successfully.

Remedy

No remedy is available.

Severity

Info

Message Text

Interface Information stub activated successfully. LSR Index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.IfInfoIf.GetNetIfInfoRsrcUnavail

Description

Interface Information stub failed to allocate resources needed to get network interface information. The Interface Information stub reports inaccurate information about network interfaces and internetwork addresses on the Interface Information Interface.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

Interface Information stub failed to get network interface information because resources were not available. LSR Index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.IfInfoIf.ProcReqSendRtSockFail

Description

A request sent on a routing socket failed. The Interface Information Interface request that initiated the routing request fails.

Remedy

Investigate the routing request failure. If this does not solve the problem, contact support.

Severity

Error

Message Text

failed to process an Interface Information Interface request because a request sent on a routing socket failed. LSR Index = `%p1%` Routing message type = `%p2%` Errno = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt
p3	sInt

ExtLibA.IfInfoIf.ProcRtMsgRecvRtSockFail

Description

A recv() system call on a routing socket failed. Possible loss of Interface Information Interface requests or indications.

Remedy

Investigate the recv() failure. If this does not solve the problem, contact support.

Severity

Error

Message Text

Interface Information stub failed to process a routing message because a recv() call on a routing socket failed. LSR Index = %p1% Recv errno = %p2%

Message Parameters

Name	Type
p1	uInt32
p2	sInt

ExtLibA.IfInfoIf.AllocJoinRsrcFail

Description

Interface Information stub failed to allocate resources for an Interface Information Interface join. The Interface Information Interface join is rejected.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

Interface Information stub failed to allocate resources for an Interface Information Interface join. LSR Index = %p1%

Message Parameters

Name	Type
p1	uInt32

ExtLibA.IfInfoIf.AllocNetIfRsrcFail

Description

Interface Information stub failed to allocate resources for a network interface. The Interface Information stub reports inaccurate information about network interfaces and internetwork addresses on the Interface Information Interface.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

Interface Information stub failed to allocate resources for a network interface. LSR Index = `%p1%` Interface index = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt32

ExtLibA.IfInfoIf.AllocNetAddrRsrcFail

Description

Interface Information stub failed to allocate resources for an internetwork address assigned to a network interface. The Interface Information stub reports inaccurate information about internetwork addresses on the Interface Information Interface.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

Interface Information stub failed to allocate resources for an internetwork address. LSR Index = `%p1%` Interface index = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt32

ExtLibA.IfInfoIf.InitFailSockReqFail

Description

Interface Information stub has failed to initialize because the initial socket() request failed. Interface Information stub terminates.

Remedy

Investigate the socket failure. If this does not solve the problem, contact support.

Severity

Error

Message Text

Interface Information stub failed to initialize because the initial socket() request failed. LSR Index = `%p1%` Errno = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

ExtLibA.IfInfoIf.AllocTEParmFail

Description

Interface Information stub failed to allocate resources for traffic engineering parameters assigned to an internetwork address/interface. The Interface Information stub reports inaccurate information about traffic engineering parameters on the Interface Information Interface.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

Interface Information stub failed to allocate resources for traffic engineering parameters. LSR Index = %p1% Interface index = %p2% network address = %p3%

Message Parameters

Name	Type
p1	uInt32
p2	sInt32
p3	DecByteArray

ExtLibA.IfInfoIf.CmpstTEBndlIfUnk

Description

The user of the sample Resource Manager Interface (RMI) provided by the I3 has requested Component Link Selection to be performed for a composite bundle interface that is not stored in the I3 database. The RMI will fail the Component Link Selection.

Remedy

Wait until the system has caught up with any configuration changes and retry the query.

Severity

Error

Message Text

Unknown Composite TE bundle Interface Instance = %p1% Interface index = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	xInt32

ExtLibA.IfInfoIf.AllocRepReqRsrcFail

Description

Backup I3 stub could not allocate resources required for a replication request. The replication request does not take place on the backup. The state on the backup remains as it was before the replication request was made. For config replication, the state on the primary also remains as it was before the replication was made. For all other replication requests, the state on the primary is updated when the replication request is made, and is not restored to its original state in the case of failure.

Remedy

Investigate resource shortage.

Severity

Warning

Message Text

Resource shortage when replicating control block type `%p1%`.

Message Parameters

Name	Type
p1	xInt32

ExtLibA.IfInfoIf.GetAdaptAddrFail

Description

The API call getAdaptersAddresses failed. The I3 stub will only process IPv4 information.

Remedy

Investigate the cause of failure.

Severity

Error

Message Text

GetAdaptersAddresses API call failed Windows error code: `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.IfInfoIf.AllocIfProgJoinRsrcFail

Description

Interface Information stub failed to allocate resources for an Interface Programming Interface join. The Interface Programming Interface join is rejected.

Remedy

Investigate the resource shortage. If this does not solve the problem, contact support.

Severity

Error

Message Text

Interface Information stub failed to allocate resources for an Interface Programming Interface join. LSR Index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.IfInfoIf.CompLinkIDUnk

Description

The user of the sample Resource Manager Interface (RMI) provided by the I3 has requested that Component Link Selection returns an interface that does not exist. The RMI will fail the Component Link Selection.

Remedy

Retry the query without specifying the component link to use.

Severity

Warning

Message Text

Unknown component link ID. Instance = %p1% Component data link ID = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	xInt32

ExtLibA.IfInfoIf.CompLinkBndlIfIDIncrct

Description

The user of the sample Resource Manager Interface (RMI) provided by the I3 has requested that Component Link Selection returns a component link whose owning bundle interface ID does not match the bundle interface ID specified by the RMI user. The RMI will fail the Component Link Selection.

Remedy

Retry the query without specifying the component link to use.

Severity

Warning

Message Text

Incorrect component link bundle IF ID specified. Instance = %p1% Component data link ID = %p2% Expected bundle IF ID = %p3% Actual bundle IF ID = %p4%

Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	xInt32
p4	xInt32

ExtLibA.IfInfoIf.CompLinkRqrQosNotPrvd

Description

The user of the sample Resource Manager Interface (RMI) provided by the I3 has requested that Component Link Selection returns a component link whose QoS does not satisfy the QoS requirements of the request. The RMI will fail the Component Link Selection.

Remedy

Retry the query without specifying the component link to use.

Severity

Warning

Message Text

Requested component link does not provide required QoS. Instance = `%p1%` Component data link ID = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	xInt32

ExtLibA.IfInfoIf.SendEmulAddrDstryFail

Description

The emulated I3 stub has failed to get a buffer to notify a user that an emulated address has been destroyed. The I3 user will not receive an indication that the address has been destroyed.

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to send emulated address destruction indication to I3 user. Instance = %p1% User PID = %p2%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

ExtLibA.IfInfoIf.RtrnNetIfInfoFail

Description

The IP library failed to return interface information due to an error. The Interface Information stub will not report any interface information. On some OSs this may also mean there is no address information reported.

Remedy

Investigate the reason for the IP library failure.

Severity

Error

Message Text

IP library failed to return network interface information. IP library return code = %p1%

Message Parameters

Name	Type
p1	uInt32

ExtLibA.IfInfoIf.AllocVIfRtInfoMemFail

Description

The I3 stub has failed to allocate memory to store virtual interface route information. The owning interface remains present with no route information, until a later successful attempt is made to store route information.

Remedy

Investigate memory shortage. Reconfigure the virtual interface.

Severity

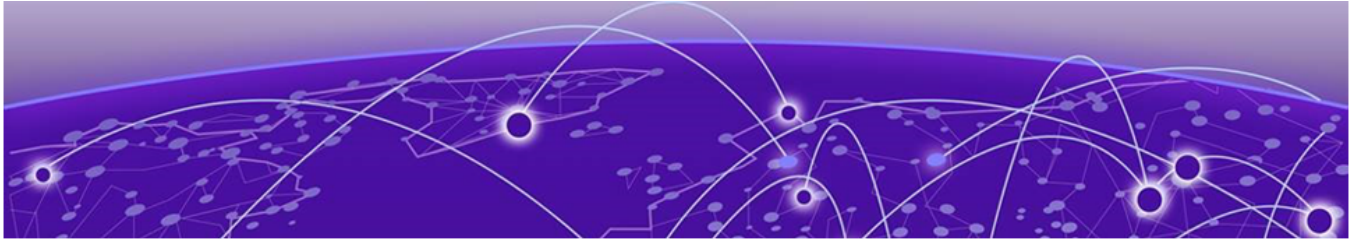
Warning

Message Text

Interface Information Stub `%p1%` failed to allocate memory for virtual interface route information. Interface egress `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	VarFmtByteArray



ExtLibA.MIBHandler Messages

ExtLibA.MIBHandler.SysInitRsrcFail on page 1451
ExtLibA.MIBHandler.CommCSSRsrcFail on page 1451
ExtLibA.MIBHandler.CommCSSFail on page 1452
ExtLibA.MIBHandler.FTIActClbkCall on page 1453
ExtLibA.MIBHandler.JoinActvClbkCall on page 1453

ExtLibA.MIBHandler.SysInitRsrcFail

Description

No description is available.

Remedy

Increase available resources and retry system initialization.

Severity

Error

Message Text

Empty MessageAMH `%p1%`\n

Message Parameters

Name	Type
p1	sInt32

ExtLibA.MIBHandler.CommCSSRsrcFail

Description

No description is available.

Remedy

Increase available resources and restart the system.

Severity

Error

Message Text

Empty MessageAMH `%p1%`\n

Message Parameters

Name	Type
p1	sInt

ExtLibA.MIBHandler.CommCSSFail

Description

No description is available.

Remedy

Investigate the cause of the failure on the N-BASE location running the Config Safe Store process.

Severity

Warning

Message Text

Empty MessageAMH `%p1%`\n

Message Parameters

Name	Type
p1	sInt32

ExtLibA.MIBHandler.FTIActClbkCall

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Empty MessageAMH `%p1% %p2%`\n

Message Parameters

Name	Type
p1	sInt32
p2	uInt8

ExtLibA.MIBHandler.JoinActvClbkCall

Description

No description is available.

Remedy

No remedy is available.

Severity

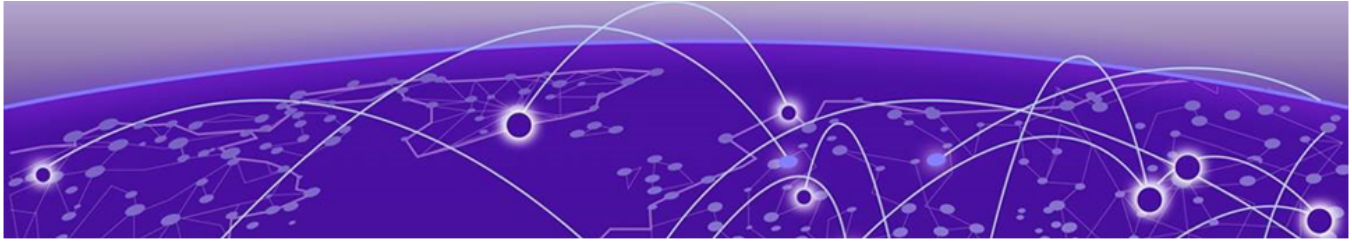
Debug-Verbose

Message Text

Empty MessageAMH `%p1% %p2%`\n

Message Parameters

Name	Type
p1	sInt32
p2	uInt8



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ExtLibA.MIBSupport.IntFSMErr

Description

No description is available.

Remedy

Internal error - contact support with details of the problem.

Severity

Error

Message Text

MIB Product Support Library FSM error.\nAction = `%p1%`\n Event = `%p2%`\n State = `%p3%`\n

Message Parameters

Name	Type
p1	sInt8
p2	sInt8
p3	sInt8

ExtLibA.MIBSupport.MIBReqOIDIndxLenUnexpct

Description

No description is available.

Remedy

Internal error - contact support with details of the problem.

Severity

Error

Message Text

Unexpected OID index length on MIB request.\nFamily ID = `%p1%`\n Family Name = `%p2%`\n Received length = `%p3%`\n Expected length = `%p4%`\n

Message Parameters

Name	Type
p1	sInt32
p2	String
p3	sInt32
p4	sInt32

ExtLibA.MIBSupport.ProcMIBMsgRsrcFail

Description

No description is available.

Remedy

Free some resources, then repeat the request.

Severity

Error

Message Text

Resource failure processing MIB message.\nFamily ID = `%p1%`\n Family Name = `%p2%`\n

Message Parameters

Name	Type
p1	xInt32
p2	String

ExtLibA.MIBSupport.UpdtReadOnlyTbl

Description

No description is available.

Remedy

Investigate why the request was sent.

Severity

Error

Message Text

Attempt to update read-only MIB table.\nFamily ID = `%p1%`\n Object Identifier: `%p2%`\n

Message Parameters

Name	Type
p1	xInt32
p2	HexNosByteArray

ExtLibA.MIBSupport.RecvMIBTestWhenNotSuprt

Description

No description is available.

Remedy

Investigate why the request was sent.

Severity

Error

Message Text

TEST received when not supported.\nFamily ID = %p1%\n Object Identifier: %p2%\n

Message Parameters

Name	Type
p1	xInt32
p2	HexNosByteArray

ExtLibA.MIBSupport.MIBReqOIDNotRecog

Description

No description is available.

Remedy

Investigate why the request was sent.

Severity

Error

Message Text

MIB request received with unrecognized OID.\nFamily ID = %p1%\n Object Identifier: %p2%\n

Message Parameters

Name	Type
p1	xInt32
p2	HexNosByteArray

ExtLibA.MIBSupport.CreatMIBRowNotSuprtFam

Description

No description is available.

Remedy

Investigate why the request was sent.

Severity

Error

Message Text

MIB row creation is not supported for this family.\nFamily ID = %p1%\n Object Identifier: %p2%\n

Message Parameters

Name	Type
p1	xInt32
p2	HexNosByteArray

ExtLibA.MIBSupport.DstryMIBRowNotSuprtFam

Description

No description is available.

Remedy

Investigate why the request was sent.

Severity

Error

Message Text

MIB row destruction is not supported for this family.\nFamily ID = %p1%\n Object Identifier: %p2%\n

Message Parameters

Name	Type
p1	xInt32
p2	HexNosByteArray

ExtLibA.MIBSupport.MIBReqCflctCurRowState

Description

No description is available.

Remedy

Investigate why the request was sent.

Severity

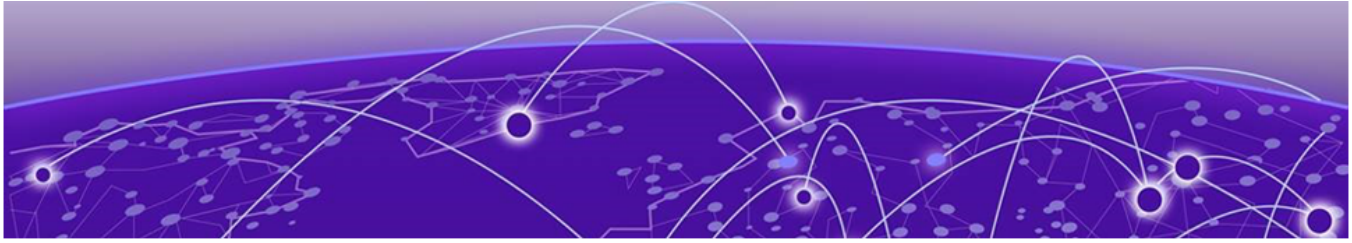
Error

Message Text

MIB request is inconsistent with current row status.\nFamily ID = `%p1%`\n Current row status = `%p2%`\n Request row status = `%p3%`\n Error code = `%p4%`\n Object Identifier: `%p5%`\n

Message Parameters

Name	Type
p1	xInt32
p2	uInt8
p3	uInt8
p4	uInt8
p5	HexNosByteArray



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ExtLibA.RtMgr.InitOK

Description

RTMgr stub has initialized successfully. Other protocol components can now communicate with the Extreme Route Manager Library by joining to the RTMgr stub.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

RTMgr stub instance `%p1%` has initialized successfully (PID = `%p2%`).

Message Parameters

Name	Type
p1	xInt32
p2	uInt32

ExtLibA.RtMgr.Dstry

Description

RTMgr stub has been destroyed. Other protocol components can no longer communicate with Extreme Route Manager Library.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

RTMgr stub instance `%p1%` has been destroyed (PID was `%p2%`).

Message Parameters

Name	Type
p1	xInt32
p2	uInt32

ExtLibA.RtMgr.InitMIBFail

Description

A MIB initialization call failed. RTMgr stub fails to initialize.

Remedy

Check earlier errors to see what the problem is.

Severity

Error

Message Text

A RTMgr stub MIB initialization call failed.

ExtLibA.RtMgr.InitHAFLibFail

Description

A HAF initialization call failed, possibly due to failure to allocate memory. RTMgr stub fails to initialize.

Remedy

Free some memory, for example by stopping other applications, and try again.

Severity

Error

Message Text

A HAF initialization call made from RTMgr stub has failed (RC = `%p1%`)

Message Parameters

Name	Type
p1	uInt8

ExtLibA.RtMgr.InitMIBAllocFail

Description

A MIB initialization call failed, due to failure to allocate memory. RTMgr stub fails to initialize.

Remedy

Free some memory, for example by stopping other applications, and try again.

Severity

Error

Message Text

A RTMgr stub MIB initialization call failed due to memory allocation failure.

ExtLibA.RtMgr.IfaceIfVPNMgrRegFail

Description

The interface information interface (I3) join with VPN Manager has failed. VPN manager will no longer receive information about tunnel interfaces.

Remedy

Check whether VPN manager has exited without unregistering.

Severity

Warning

Message Text

RTMgr stub I3 join to VPN manager (PID = `%p1%`) has failed.

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.IfaceIfVPNMgrRegNotFnd

Description

The slave join to VPN Manager has gone. Either VPN manager deleted the join, or the join failed (in which case there has already been a "join failed" log. VPN Manager will no longer receive indications of tunnel interfaces.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

RTMgr stub I3 join to VPN Manager (PID = `%p1%`) has gone.

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.RecvTunlIf

Description

A new tunnel interface has been sent from RTMgr agent across the inter-thread interface. VPN manager will be notified of a new interface to use for routing.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

New tunnel interface with index `%p1%` for address `%p2%` received from RTMgr

Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray

ExtLibA.RtMgr.RecvTunlIfDel

Description

A tunnel interface has been withdrawn by RTMgr agent. VPN manager will be notified of a interface deletion.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Tunnel interface with index %p1% for address %p2% deleted

Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray

ExtLibA.RtMgr.IfaceIfVPNMgrReg

Description

An instance of VPN manager has registered across the I3 interface. The I3 join is now active. VPN manager will be notified of tunnel interfaces.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

VPN manager (PID = %p1%) successfully registered on I3 interface

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.IfaceIfVPNMgrSendFail

Description

An IPS has been dropped because it did not correlate to an I3 join partner. VPN manager will not receive a response to the IPS.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Unable to send I3 response from RTMgr stub to VPN manager (PID = %p1%) because join has gone

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.TunIfAllocFail

Description

Unable to allocate memory for a tunnel interface received from the RTMgr agent. The tunnel will not be used for VPN traffic and VPN routes from the remote PE router will not be added to a VRF.

Remedy

Free some memory, for example by stopping other applications, and try again.

Severity

Warning

Message Text

Unable to allocate memory to store tunnel interface for %p1% with index %p2%

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	xInt32

ExtLibA.RtMgr.LblIfVPNMgrRegFail

Description

The Label Database interface (LDBI) join with an instance of VPN manager has failed. VPN manager will no longer receive information about VPN labels.

Remedy

Check whether VPN manager has exited without unregistering.

Severity

Warning

Message Text

RTMgr stub LDBI join to VPN manager (PID = `%p1%`) has failed.

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.LblIfVPNMgrRegNotFnd

Description

The slave join to an instance of VPN Manager has gone. Either VPN manager deleted the join, or the join failed (in which case there has already been a "join failed" log. VPN manager will no longer receive VPN labels.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

RTMgr stub LDBI join to VPN manager (PID = `%p1%`) has gone.

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.LblIfVPNMgrSendFail

Description

An instance of VPN manager has registered across the LDBI interface. The LDBI join is now active. VPN manager will be notified about L3VPN labels.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

VPN manager (PID = `%p1%`) successfully registered on LDBI interface

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.RecvVPNLabel

Description

A new VPN label has been received by RTMgr across the IT. The label will be used for VPNs on the specified VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Received new label for VR id `%p1%` - `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	HexByteArray

ExtLibA.RtMgr.RecvVPNLabelDel

Description

A VPN label has been withdrawn by RTMgr across the IT. The label will no longer be used for VPNs on the specified VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Deleted label for VR id `%p1%` - `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	HexByteArray

ExtLibA.RtMgr.VPNLabelAllocFail

Description

Failed to allocate memory to store a VPN label received across the IT. Routes in the VRF will not be advertised to remote PE routers.

Remedy

Free some memory, for example by stopping other applications, and try again.

Severity

Warning

Message Text

Failed to allocate memory for label on VR id `%p1%` - `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	HexByteArray

ExtLibA.RtMgr.RtProgIfRegFail

Description

The Route programming interface (RPI) join with a Routing Protocol Manager has failed. RPM routes will not be added to the routing table and the RPM will not receive redistributed routes.

Remedy

Check whether the RPM has exited without unregistering.

Severity

Warning

Message Text

RTMgr stub RPI join to RPM (PID = `%p1%`) has failed.

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.RtProgIfRegGone

Description

The slave join to a Routing Protocol Manager has gone. Either the RPM deleted the join, or the join failed (in which case there has already been a "join failed" log. The RPM will no longer receive redistributed routes. RPM routes will not be added to the routing table.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

RTMgr stub RPI join to RPM (PID = `%p1%`) has gone.

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.RtProgIfRegAllocFail

Description

Failed to allocate memory required for an RPI join with an RPM. The join with the RPM will not be added.

Remedy

Free some memory, for example by stopping other applications, and try again.

Severity

Warning

Message Text

Failed to allocate memory for RPI join: client ID `%p1% %p2% %p3% %p4%`

Message Parameters

Name	Type
p1	xInt32
p2	uInt32
p3	uInt16
p4	uInt8

ExtLibA.RtMgr.RtProgIfProcRespFail

Description

An IPS has been dropped because it did not correlate to an RPI join partner. The RPM will not receive a response to the IPS.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Unable to send RPI response from RTMgr stub to RPM (PID = `%p1%`) because join has gone

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.RtProgIfSendFail

Description

An IT message has been dropped because it did not correlate to an RPI join partner. The route will not be forwarded to the RPM.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Unable to process IT message because there is no RPI join partner for client ID `%p1% %p2% %p3% %p4%`

Message Parameters

Name	Type
p1	xInt32
p2	uInt32
p3	uInt16
p4	uInt8

ExtLibA.RtMgr.RtProgIfReg

Description

An RPM has successfully registered on the RPI interface. The RPM can now send and receive queries on the RPI.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Successfully registered RPI join for RPM (PID = `%p1%`) VR ID `%p2%`, address family `%p3%`, subtype `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

Name	Type
p3	uInt16
p4	uInt8

ExtLibA.RtMgr.RecvTblStrt

Description

Received a table start from an RPI join partner indicating that it is about to start a routing table update.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Received table start signal from RPM (PID = `%p1%`) with client role `%p2%` on VR ID `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt32

ExtLibA.RtMgr.RecvTblEnd

Description

Received a table end from an RPI join partner indicating that the routing table update has completed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Received table end signal from RPM (PID = %p1%) with client role %p2% on VR ID %p3%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt32

ExtLibA.RtMgr.SendExtStrt

Description

Send an external route start signal to an RPI join partner indicating that the routing table export is about to start.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Send external route start signal to RPM (PID = %p1%) with client role %p2% on VR ID %p3%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt32

ExtLibA.RtMgr.SendExtEnd

Description

Send an external route end signal to an RPI join partner indicating that the routing table export is complete.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Send external route end signal to RPM (PID = `%p1%`) with client role `%p2%` on VR ID `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt32

ExtLibA.RtMgr.SendTblRpt

Description

Send a table repeat signal to RPM The RPM will resend the required routes.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Send table repeat signal to RPM (PID = `%p1%`) with client role `%p2%` on VR ID `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt32

ExtLibA.RtMgr.RecvTblUpdt

Description

Received a table update signal from an RPM. RTMgr stub will try to process routes.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Received table update signal from RPM (PID = `%p1%`) with client role `%p2%` on VR ID `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt32

ExtLibA.RtMgr.SendExtRt

Description

External route updates are ready to be processed.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Send external route signal to RPM (PID = %p1%) with client role %p2% on VR ID %p3%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt32

ExtLibA.RtMgr.SendTblUpdtErr

Description

Send a table update error signal to an RPM.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Send table update error to RPM (PID = %p1%) with client role %p2% on VR ID %p3%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	uInt32

ExtLibA.RtMgr.ActvRtIfBGPRegFail

Description

The Active Routes interface (ARI) join with BGP has failed or been refused. A failed join means that BGP will not receive active routing information from the RTMgr stub.

Remedy

Check whether BGP has exited without unregistering.

Severity

Warning

Message Text

ARI join to BGP (PID = `%p1%`) has failed or been refused (action = `%p2%`).

Message Parameters

Name	Type
p1	uInt32
p2	uInt8

ExtLibA.RtMgr.ActvRtIfBGPRegNotFound

Description

The master ARI join to BGP has gone. Either the RTMgr stub deleted the join, or the join failed (in which case there has already been a "join failed" log. BGP will no longer receive active routes indications.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

ARI join to BGP (PID = `%p1%`) on VR `%p2%` has gone.

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

ExtLibA.RtMgr.BGPRegFail

Description

RTMgr stub failed to add a join to an instance of BGP. RTMgr stub cannot communicate with this instance of BGP, but continues to communicate with any other instances of BGP with which it has already established a join.

Remedy

Investigate the cause of the failure and possibly restart the BGP instance.

Severity

Warning

Message Text

RTMgr stub failed to create a join to a BGP instance (VR = `%p1%`).

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.ActvRtIfBGPReg

Description

A successful register response was received for an ARI join to a BGP instance. The ARI join will become active.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

ARI join to BGP (PID = %p1%) on VR %p2% has been registered successfully.

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

ExtLibA.RtMgr.ActvRtIfBGPUnreg

Description

RTMgr stub has unregistered its join to a BGP instance. The ARI join will become inactive.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

RTMgr stub has unregistered ARI join to BGP (PID = %p1%) on VR %p2%.

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

ExtLibA.RtMgr.RejActvRtIfMsgFmOldBGP

Description

RTMgr stub dropped an IPS which appeared to come from an old instance of BGP. BGP will not receive a response to the IPS.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

RTMgr stub dropped an ARI packet from an old instance of BGP (PID = `%p1%`).

Message Parameters

Name	Type
p1	uInt32

ExtLibA.RtMgr.ActvRtIfBGPSendFail

Description

An IT message has been dropped because it did not correlate to an instance of BGP with an active ARI join. The active route indication or IPS response will not be forwarded to BGP.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Unable to send IT message because there is no ARI join with BGP for VR ID `%p1%`, address family `%p2%`, subtype `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt16
p3	uInt8

ExtLibA.RtMgr.ProcQueryFmBGP

Description

An ARI query/unquery IPS has been received from BGP.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received ARI `%p1%` from BGP (PID = `%p2%`) for destination address `%p3%`, prefix length `%p4%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	VarFmtByteArray
p4	uInt8

ExtLibA.RtMgr.RecvRouteInd

Description

An indication has been received on the IT for an active route.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received notification that destination address %p1%, prefix length %p2% is %p3% on VR %p4%

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	uInt8
p3	String
p4	uInt32

ExtLibA.RtMgr.RecvQueryRsp

Description

The response to an ARI query/unquery IPS has been received from the RTMgr agent.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received ARI %p1% response for BGP (PID = %p2%) on VR %p3%, for destination address %p4%, prefix length %p5%

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

Name	Type
p4	VarFmtByteArray
p5	uInt8

ExtLibA.RtMgr.DnldRtFail

Description

Route download to FIB failed.

Remedy

Look at logs for any error messages from RTMgr. If there is none disable and enable the protocol.

Severity

Warning

Message Text

Route `%p1%`/`%p2%` download failed with error `%p3%` for client ID `%p4%` `%p5%` `%p6%` `%p7%`

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	uInt16
p3	sInt
p4	xInt32
p5	uInt32
p6	uInt16
p7	uInt8

ExtLibA.RtMgr.DnldRtDone

Description

Route download to FIB succeeded.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Route `%p1%`/`%p2%` download succeeded for client ID `%p3% %p4% %p5% %p6%`

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	uInt16
p3	xInt32
p4	uInt32
p5	uInt16
p6	uInt8

ExtLibA.RtMgr.WthdrRtFail

Description

Route withdraw from FIB failed. FIB may be in inconsistent state.

Remedy

Look at logs for any error messages from RTMgr. If FIB is in inconsistent state, a reboot may be required.

Severity

Warning

Message Text

Route `%p1%`/`%p2%` withdraw failed with error `%p3%` for client ID `%p4% %p5% %p6% %p7%`

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	uInt16
p3	sInt
p4	xInt32
p5	uInt32
p6	uInt16
p7	uInt8

ExtLibA.RtMgr.WthdrRtDone

Description

Route withdraw from FIB succeeded.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Route `%p1%`/`%p2%` withdraw succeeded for client ID `%p3%` `%p4%` `%p5%` `%p6%`

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	uInt16
p3	xInt32
p4	uInt32
p5	uInt16
p6	uInt8

ExtLibA.RtMgr.ImprtPlcyEvalFail

Description

Import policy evaluation failed for route. If a policy action is present for route it will not be applied.

Remedy

Look at logs for any error messages from PolMgr.

Severity

Warning

Message Text

Import policy evaluation failed for route `%p1%`/`%p2%`, client ID `%p3% %p4% %p5% %p6%`

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	uInt16
p3	xInt32
p4	uInt32
p5	uInt16
p6	uInt8

ExtLibA.RtMgr.ImprtPlcyActDeny

Description

Import policy action is deny for route. Route will not be downloaded.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Import policy action is deny for route %p1%/%p2%, client ID %p3% %p4% %p5% %p6%

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	uInt16
p3	xInt32
p4	uInt32
p5	uInt16
p6	uInt8

ExtLibA.RtMgr.StrtExtRtUpdtFail

Description

Failed to start external route update transaction with RTMgr. If this is an add or update transaction then routes will not be updated correctly. If this is a delete transaction then invalid routes might remain in FIB.

Remedy

Look at logs for any error message from RTMgr. Try to disable export and enable it again.

Severity

Error

Message Text

Failed to start external route %p1% transaction, origin code=%p2%, client ID %p3% %p4% %p5% %p6%

Message Parameters

Name	Type
p1	String
p2	sInt
p3	xInt32
p4	uInt32

Name	Type
p5	uInt16
p6	uInt8

ExtLibA.RtMgr.ProcExtRtFail

Description

Failed to process external route update. If this is an add or update then route will not be exported to protocol. If this is a delete an invalid route might remain in FIB.

Remedy

Free some memory. Disable export and enable it again.

Severity

Warning

Message Text

Failed to process external route `%p1%`/`%p2% %p3%`, origin code=`%p4%`, error code=`%p5%`, client ID `%p6% %p7% %p8% %p9%`

Message Parameters

Name	Type
p1	String
p2	uInt16
p3	String
p4	sInt
p5	sInt
p6	xInt32
p7	uInt32
p8	uInt16
p9	uInt8

ExtLibA.RtMgr.ProcExtRtDone

Description

External route processed.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

External route `%p1%`/`%p2%` `%p3%`, origin code=`%p4%`, client ID `%p5%` `%p6%` `%p7%` `%p8%`

Message Parameters

Name	Type
p1	String
p2	uInt16
p3	String
p4	sInt
p5	xInt32
p6	uInt32
p7	uInt16
p8	uInt8

ExtLibA.RtMgr.ExprtPlcyEvalFail

Description

Export policy evaluation failed for route. If a policy action is present for route it will not be applied.

Remedy

Look at logs for any error messages from PolMgr.

Severity

Warning

Message Text

Export policy evaluation failed for route `%p1%`/`%p2%`, client ID `%p3%` `%p4%` `%p5%` `%p6%`

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	uInt16
p3	xInt32
p4	uInt32
p5	uInt16
p6	uInt8

ExtLibA.RtMgr.ExprtPlcyActDeny

Description

Export policy action is deny for route. Route will not be exported.

Remedy

No action required - Informational message only.

Severity

Debug-Data

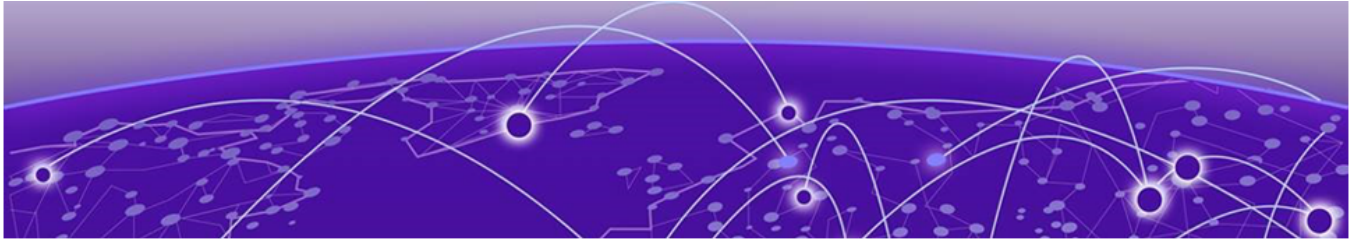
Message Text

Export policy action is deny for route `%p1%`/`%p2%`, client ID `%p3%` `%p4%` `%p5%` `%p6%`

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	uInt16
p3	xInt32
p4	uInt32

Name	Type
p5	uInt16
p6	uInt8



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ExtLibA.SampleMIB.CreatBGPInstc

Description

No description is available.

Remedy

None.

Severity

Info

Message Text

Empty MessageAn instance of BGP was created with index `%p1% %p2%`\n

Message Parameters

Name	Type
p1	xInt32
p2	String

ExtLibA.SampleMIB.MIBTestFail

Description

No description is available.

Remedy

Determine the cause of the error and retry BGP creation.

Severity

Warning

Message Text

Empty MessageError `%p1% %p2% %p3%`\n

Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	xInt32

ExtLibA.SampleMIB.DstryBGPInstc

Description

No description is available.

Remedy

No remedy is available.

Severity

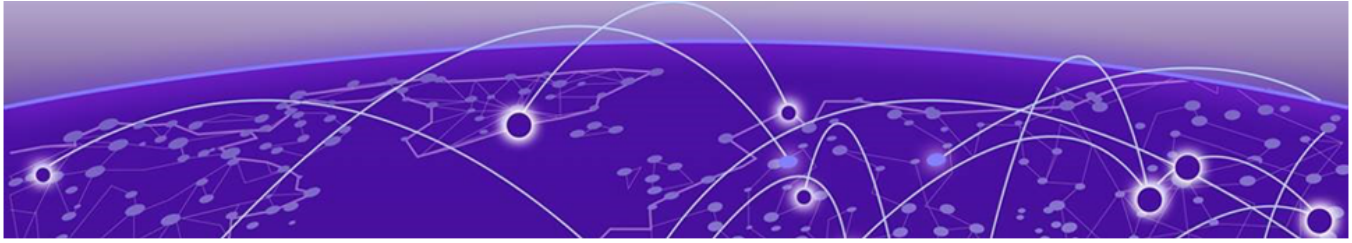
Info

Message Text

Empty MessageThe BGP instance with index `%p1% %p2%`\n

Message Parameters

Name	Type
p1	uInt32
p2	String



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ExtLibA.Socket.InitFail

Description

Sockets Interface failed to initialize correctly.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

The Sockets interface failed to initialize correctly.

ExtLibA.Socket.FreeSockRsrcFail

Description

Failed to free resources associated with a socket that failed to initialize correctly.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Failed to free resources associated with a socket that failed to open.

ExtLibA.Socket.RecvSockHndlInv

Description

Received invalid socket handle.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Received invalid socket handle.

ExtLibA.Socket.CloseSockFail

Description

Failed to close a socket.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to close a socket.

ExtLibA.Socket.ProcIPSSockOK

Description

Socket signal processed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Socket signal processed.

ExtLibA.Socket.ProcRegOK

Description

Socket register processed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Socket register processed.

ExtLibA.Socket.ProcUnregOK

Description

Socket unregister processed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Socket unregister processed.

ExtLibA.Socket.InitHAFLibFail

Description

Failed to initialize HAF library.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to initialize the HAF library.

ExtLibA.Socket.RegHAFLibFail

Description

Failed to register with the HAF library.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to register with the HAF library.

ExtLibA.Socket.DtectInitSockLibErr

Description

Error while registering with sockets library.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Error found while initializing sockets library. WSA error = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.DtectUninitSockLibErr

Description

Error while unregistering with sockets library.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Error found while uninitializing sockets library. WSA error = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.CreatSockHndlFail

Description

Failed to create a socket handle.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to create a handle to a socket.

ExtLibA.Socket.GetBufPoolFail

Description

Failed to get a buffer pool.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get a buffer pool.

ExtLibA.Socket.ProcCloseOK

Description

Socket close processed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Socket close processed.

ExtLibA.Socket.OpenSockFail

Description

Can't open a socket.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to open a socket. Sockets error code = %p1% Application handle = %p2% Socket type = %p3% Socket family = %p4% Socket protocol = %p5%

Message Parameters

Name	Type
p1	sInt
p2	uInt32
p3	xInt32
p4	xInt32
p5	xInt32

ExtLibA.Socket.SetSockOptFail

Description

Failed to set a socket option.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to set an option on a socket. Socket option = %p1% Sockets error code = %p2% Socket ID = %p3% Application handle = %p4% Stub socket handle = %p5% Socket type = %p6% Socket family = %p7% Socket protocol = %p8%

Message Parameters

Name	Type
p1	xInt
p2	sInt
p3	sInt
p4	uInt32

Name	Type
p5	uInt32
p6	xInt32
p7	xInt32
p8	xInt32

ExtLibA.Socket.BndSockFail

Description

Failed to bind to a socket.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Socket bind failed. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	xInt

ExtLibA.Socket.CnctSockFail

Description

Failed to connect the socket

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Socket connect failed. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	xInt

ExtLibA.Socket.AcptCnctSockFail

Description

A sockets error occurred while attempting to accept an incoming connection.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Sockets error on attempting to accept an incoming connection. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.CnctIntRsrcUnavail

Description

Failed to register the socket as an N-BASE work source.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

An internal resource shortage caused an incoming connection to fail. Socket ID = %p1% Socket type = %p2% Socket family = %p3% Socket protocol = %p4% Application handle = %p5% Stub socket handle = %p6%

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32
p4	xInt32
p5	uInt32
p6	uInt32

ExtLibA.Socket.LstnSockFail

Description

Failed to start listening on a socket.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Attempt to commence listening on a socket failed. Sockets error code = %p1%

Message Parameters

Name	Type
p1	xInt

ExtLibA.Socket.DtectSockLayErr

Description

General sockets error.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

General sockets layer error detected. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	xInt

ExtLibA.Socket.JoinMcastGrpFail

Description

Multicast group join error.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to join Multicast group. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.LeaveMcastGrpFail

Description

Multicast group leave error.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to leave Multicast group. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	xInt

ExtLibA.Socket.GetIfNameFail

Description

Failed to look up interface using if_indextoname.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get interface name. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.GetIfAddrFail

Description

Failed to look up interface address using ioctl(SIOCGIFADDR).

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get interface IP address. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.GetIfAddrMapTblFail

Description

Failed to get interface address mapping table.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get interface address mapping table. Windows error code = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.Socket.FndIfInMapTblFail

Description

Failed to find interface in mapping table.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to find interface in mapping table.

ExtLibA.Socket.AllocMapTblMemFail

Description

Failed to allocate memory for mapping table.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to allocate memory for mapping table.

ExtLibA.Socket.LoadIPHelpDynLibFail

Description

Failed to load IP helper dll.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to load IP helper dll.

ExtLibA.Socket.GetProcAddrFail

Description

Failed to get IP address mapping function.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get IP address mapping function.

ExtLibA.Socket.GetIfNameIfIndxFail

Description

Failed to look up interface name using ifIndexTpIfp().

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get interface name for interface index `%p1%`.

Message Parameters

Name	Type
p1	xInt32

ExtLibA.Socket.GetIPAddrIfIndxFail

Description

Failed to get interface IP address.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get IP address for interface index `%p1%`. Return code = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt

ExtLibA.Socket.GetSubnetMskIfIndxFail

Description

Failed to get interface subnet mask.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get subnet mask for interface index `%p1%`. Return code = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt

ExtLibA.Socket.GetMatchSockFail

Description

Failed to get a matching socket for an incoming buffer.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get a matching socket for socket ID `%p1%`.

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.AllocInetSetCfgSigFail

Description

Failed to allocate an InetSetConfig signal for the MUX hook.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to allocate an InetSetConfig signal for the MUX hook. Sock ID `%p1%`.

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.SetIPFwdHookFail

Description

Failed to set the IP forwarding hook.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to set the IP forwarding hook, status %p1%.

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.GetIfCfgFail

Description

Failed to look up interface configuration using ioctl(SIOCGIFCONF).

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get interface configuration. SIOCGIFCONF = %p1% Sockets error code = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	sInt

ExtLibA.Socket.SetTCPMD5OptFailParmInv

Description

Failed to set TCP MD5 password option because of invalid password length or remote address type.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to set TCP MD5 password option because of invalid parameter. Password length = `%p1%` Remote address type = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt8

ExtLibA.Socket.SetTCPMD5OptFail

Description

Failed to set TCP MD5 password option because of sockets error,

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to set TCP MD5 password option. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.WritSockFail

Description

OS error when trying to write to socket.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Socket write error. Sockets error code = `%p1%` Socket ID = `%p2%` Socket type = `%p3%` Socket family = `%p4%` Socket protocol = `%p5%` Application handle = `%p6%` Stub socket handle = `%p7%` Src IP addr = `%p8%` Dest IP addr = `%p9%`

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32
p8	VarFmtByteArray
p9	VarFmtByteArray

ExtLibA.Socket.TLSCnctFail

Description

A TLS connection attempt failed.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

A TLS connection attempt failed: Socket: `%p1%`

Message Parameters

Name	Type
p1	uInt

ExtLibA.Socket.UseTLSFailNonTCPSock

Description

Attempted to use TLS on a non-TCP socket.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Attempted to use TLS on a non-TCP socket: Socket: `%p1%`

Message Parameters

Name	Type
p1	uInt

ExtLibA.Socket.SetPktInfoSockOptFail

Description

Failed to set IP_PKTINFO or IPV6_PKTINFO socket option.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to set IP_PKTINFO or IPV6_PKTINFO socket option. Sockets stub may be unable to determine incoming interface for data arriving on this socket. Sockets error code = `%p1%` Socket ID = `%p2%` Socket type = `%p3%` Socket family = `%p4%` Socket protocol = `%p5%` Application handle = `%p6%` Stub socket handle = `%p7%`

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32

ExtLibA.Socket.GetIfSubnetMskFail

Description

Failed to look up interface subnet mask using ioctl(SIOCGIFNETMASK).

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get interface subnet mask. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.CruptPktByteDump

Description

The Test socket stub has corrupted a packet.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Corrupted Packet. Byte dump of packet before corruption = `%p1%`

Message Parameters

Name	Type
p1	HexPktByteArray

ExtLibA.Socket.GetPktInfoFail

Description

Failed to get packet information. Note: If the traced error number, %2, is 0 then the IP stack did not provide the required ancillary data.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to get packet information using IP_PKTINFO or IPV6_RECVPKTINFO. Socket = `%p1%` recvmsg error code (or 0 if none) = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	uInt32

ExtLibA.Socket.InIfIndxInv

Description

Incoming interface index of packet is invalid.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Invalid incoming interface index = `%p1%`.

Message Parameters

Name	Type
p1	xInt32

ExtLibA.Socket.TCPCnctNew

Description

TCP connection.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

New TCP connection. Local address type = %p1% Local IP address = %p2% Local port = %p3% Remote address type = %p4% Remote IP address = %p5% Remote port = %p6%

Message Parameters

Name	Type
p1	xInt8
p2	VarFmtByteArray
p3	uInt16
p4	xInt8
p5	VarFmtByteArray
p6	uInt16

ExtLibA.Socket.BldIncrctForSys

Description

The build of the Sockets Stub being run is incorrect for this version of the Windows Operating System.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Error

Message Text

The build of the Sockets Stub being run is incorrect for this version of the Windows Operating System. Win 2000 Build ? = %p1% Win 2000 OS (or above) ? = %p2% OS Platform Id = %p3% OS Major Version number = %p4% OS Minor Version number = %p5%

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	uInt32
p4	uInt32
p5	uInt32

ExtLibA.Socket.ReadFailWaitDataBufPost

Description

Couldn't read data from a socket because buffer post is outstanding.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

The sockets stub couldn't read available data from a socket (fd `%p1%`) because it is waiting for a data buffer to be posted for this socket.

Message Parameters

Name	Type
p1	uInt

ExtLibA.Socket.AllocReadDataBufFail

Description

Couldn't allocate a buffer to read data from a socket.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Couldn't allocate a buffer to read available data from a socket (fd %p1%). The data will be read when the N-BASE posts a buffer to the sockets stub.

Message Parameters

Name	Type
p1	uInt

ExtLibA.Socket.ReadFail

Description

Socket read call failed.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

Warning

Message Text

Socket read call failed. Socket ID = %p1% read/recv() call rc = %p2% errno/GetLastError() = %p3% Socket type = %p4% Socket family = %p5% Socket protocol = %p6% Application handle = %p7% Stub socket handle = %p8%

Message Parameters

Name	Type
p1	uInt
p2	sInt
p3	sInt
p4	xInt32
p5	xInt32

Name	Type
p6	xInt32
p7	uInt32
p8	uInt32

ExtLibA.Socket.GetCnctLocAddrInfoFail

Description

Failed to get local information for incoming connection on BGP listen socket. The connection will fail as we cannot tell which instance of BGP should receive the connection.

Remedy

Determine why the GETSOCKNAME call failed and retry.

Severity

Warning

Message Text

Failed to get local address information for incoming connection Remote address type = `%p1%` Remote IP address = `%p2%` Remote port = `%p3%`

Message Parameters

Name	Type
p1	xInt8
p2	VarFmtByteArray
p3	uInt16

ExtLibA.Socket.IgnCnctNoBGPInstcLstn

Description

No BGP instance is listening on this VR so the stub will ignore the incoming connection.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Ignoring incoming connection on VR %p1%, no BGP instance listening

Message Parameters

Name	Type
p1	sInt

ExtLibA.Socket.IgnCnctBGPInstcBndTo

Description

The BGP instance listening on this VR requested to bind to a particular address. Rejected an incoming connection on the VR that had a different destination address.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Ignoring incoming connection on VR %p1% for address %p2%, BGP instance bound to %p3%

Message Parameters

Name	Type
p1	sInt
p2	VarFmtByteArray
p3	VarFmtByteArray

ExtLibA.Socket.RecvErrOnBGPLstnSock

Description

An error has been received on a BGP listen socket. The socket will be closed and the stub will attempt to open a new listen socket. If this fails, the stub will retry on a timer. No incoming connection requests will be processed until a new listen socket is opened.

Remedy

A new socket should eventually be opened so no action is required.

Severity

Warning

Message Text

Error `%p1%` received on BGP listen socket `%p2%` for family `%p3%`. The socket will be closed.

Message Parameters

Name	Type
p1	sInt
p2	uInt
p3	xInt32

ExtLibA.Socket.ReopenBGPLstnSock

Description

Successfully reopened a BGP listen socket that was closed due to an error. Incoming connection attempts will now be received.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Re-opened BGP listen socket for address type %p1%.

Message Parameters

Name	Type
p1	xInt32

ExtLibA.Socket.AllocMD5SetMemFail

Description

Failed to allocate memory to store an MD5 password socket option for the BGP listen socket. If the listen socket is reopened, this socket option will not be set.

Remedy

Resolve the low memory condition. Toggling the peer configuration in BGP will cause BGP to attempt to set the socket option again.

Severity

Warning

Message Text

Unable to allocate memory for MD5 password set for BGP instance %p1%

Message Parameters

Name	Type
p1	xInt

ExtLibA.Socket.RcvPktNoVLAN

Description

Vlan associated with receive data no longer supports protocol

Remedy

This is an internal condition needing technical assistance. Contact technical support with the output of "show tech".

Severity

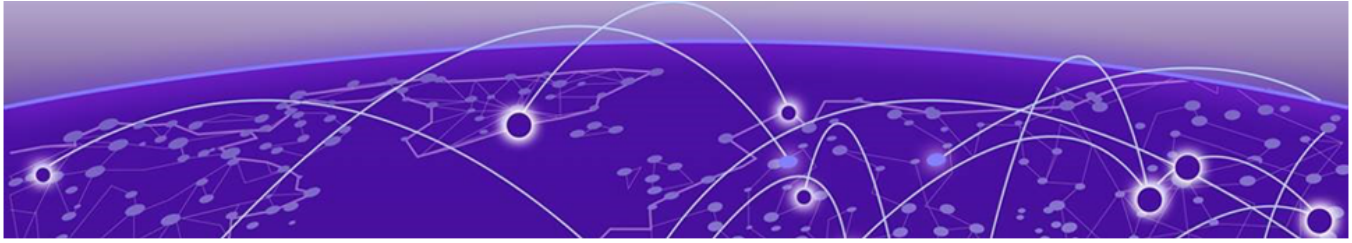
Error

Message Text

Vlan associated with receive data no longer supports protocol. Interface Name = %p1% Interface index = %p2% Socket ID = %p3% Socket family = %p4% Socket protocol = %p5%

Message Parameters

Name	Type
p1	xInt32
p2	uInt32
p3	sInt
p4	xInt32
p5	xInt32



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ExtLibA.SockLib.InitFail

Description

Sockets Interface failed to initialize correctly.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

The Sockets interface failed to initialize correctly.

ExtLibA.SockLib.InitIfIndxFail

Description

Failed to initialize for explicit ifIndex.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to initialize for explicit ifIndex. Socket ID = `%p1%` Socket type = `%p2%` Socket family = `%p3%` Socket protocol = `%p4%` Stub socket handle = `%p5%` Application socket handle = `%p6%` IF index = `%p7%`

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32
p4	xInt32
p5	uInt32
p6	uInt32
p7	uInt32

ExtLibA.SockLib.RecvSockHndlInv

Description

Received invalid socket handle.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Received invalid socket handle. Socket handle = `%p1%`

Message Parameters

Name	Type
p1	xInt

ExtLibA.SockLib.CloseSockFail

Description

Failed to clean up/close a socket.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to clean up or close a socket. Error code = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.SockLib.ProcIPSSockOK

Description

Socket signal processed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Socket signal processed.

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32
p4	xInt32

Name	Type
p5	uInt32
p6	uInt32
p7	VarFmtByteArray
p8	uInt16
p9	VarFmtByteArray
p10	uInt16

ExtLibA.SockLib.ProcRegOK

Description

Socket register processed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Socket register processed.

Message Parameters

Name	Type
p1	uInt32
p2	xInt8

ExtLibA.SockLib.ProcUnregOK

Description

Socket unregister processed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Socket unregister processed.

Message Parameters

Name	Type
p1	uInt32
p2	xInt8

ExtLibA.SockLib.InitHAFLibFail

Description

Failed to initialize HAF library.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to initialize the HAF library. Error code = `%p1%` Socket index = `%p2%`

Message Parameters

Name	Type
p1	xInt8
p2	uInt32

ExtLibA.SockLib.RegHAFLibFail

Description

Failed to register with the HAF library.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to register with the HAF library. Socket index = `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.SockLib.CreatSockHndlFail

Description

Failed to create a socket handle.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to create a handle to a socket. Application socket handle = `%p1%` Socket type = `%p2%` Socket family = `%p3%` Socket protocol = `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32
p4	xInt32

ExtLibA.SockLib.GetBufPoolFail

Description

Failed to get a buffer pool.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get a buffer pool. Socket ID = `%p1%` Application socket handle = `%p2%` Stub socket handle = `%p3%` Socket type = `%p4%` Socket family = `%p5%` Socket protocol = `%p6%` Local inet address = `%p7%` Local port = `%p8%` Remote inet address = `%p9%` Remote port = `%p10%`

Message Parameters

Name	Type
p1	sInt
p2	uInt32
p3	uInt32
p4	xInt32
p5	xInt32
p6	xInt32
p7	VarFmtByteArray
p8	uInt16

Name	Type
p9	VarFmtByteArray
p10	uInt16

ExtLibA.SockLib.ProcCloseOK

Description

Socket close processed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Socket close processed.

ExtLibA.SockLib.OpenSockFail

Description

Can't open a socket.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to open a socket. Sockets error code = `%p1%` Application handle = `%p2%` Socket type = `%p3%` Socket family = `%p4%` Socket protocol = `%p5%`

Message Parameters

Name	Type
p1	sInt
p2	uInt32
p3	xInt32
p4	xInt32
p5	xInt32

ExtLibA.SockLib.SetSockOptFail

Description

Failed to set a socket option.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to set an option on a socket. Socket option = `%p1%` Sockets error code = `%p2%` Socket ID = `%p3%` Application handle = `%p4%` Stub socket handle = `%p5%` Socket type = `%p6%` Socket family = `%p7%` Socket protocol = `%p8%`

Message Parameters

Name	Type
p1	xInt
p2	sInt
p3	sInt
p4	uInt32
p5	uInt32
p6	xInt32
p7	xInt32
p8	xInt32

ExtLibA.SockLib.BndSockFail

Description

Failed to bind to a socket.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Socket bind failed. Sockets error code = `%p1%` Socket ID = `%p2%` Socket type = `%p3%` Socket family = `%p4%` Socket protocol = `%p5%` Stub socket handle = `%p6%` Application handle = `%p7%` Local inet address = `%p8%` Local port = `%p9%`

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32
p8	VarFmtByteArray
p9	uInt16

ExtLibA.SockLib.CnctSockFail

Description

Failed to connect the socket

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to connect to remote address. Sockets error code = `%p1%` Remote address = `%p2%` Remote port = `%p3%` Socket ID = `%p4%` Socket type = `%p5%` Socket family = `%p6%` Socket protocol = `%p7%` Stub socket handle = `%p8%` Application handle = `%p9%`

Message Parameters

Name	Type
p1	sInt
p2	VarFmtByteArray
p3	uInt16
p4	sInt
p5	xInt32
p6	xInt32
p7	xInt32
p8	uInt32
p9	uInt32

ExtLibA.SockLib.AcptCnctSockFail

Description

A sockets error occurred while attempting to accept an incoming connection.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Sockets error on attempting to accept an incoming connection. Sockets error code = %p1% Listening socket ID = %p2% Listening socket type = %p3% Listening socket family = %p4% Listening socket protocol = %p5% Application handle = %p6% Listening stub handle = %p7%

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32

ExtLibA.SockLib.CnctIntRsrcUnavail

Description

Failed to register the socket as an N-BASE work source.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

An internal resource shortage caused an incoming connection to fail. Socket ID = %p1% Socket type = %p2% Socket family = %p3% Socket protocol = %p4% Application handle = %p5% Stub socket handle = %p6%

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32
p4	xInt32
p5	uInt32
p6	uInt32

ExtLibA.SockLib.LstnSockFail

Description

Failed to start listening on a socket.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Attempt to commence listening on a socket failed. Sockets error code = `%p1%` Socket ID = `%p2%` Socket type = `%p3%` Socket family = `%p4%` Socket protocol = `%p5%` Application handle = `%p6%` Stub socket handle = `%p7%` Local inet address = `%p8%` Local port = `%p9%`

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32

Name	Type
p8	VarFmtByteArray
p9	uInt16

ExtLibA.SockLib.DtectSockLayErr

Description

Error work detected on a socket awaiting completion of a pending connection.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A connection attempt has failed. Sockets error code = `%p1%` Socket ID = `%p2%` Socket type = `%p3%` Socket family = `%p4%` Socket protocol = `%p5%` Application handle = `%p6%` Stub socket handle = `%p7%` Local inet address = `%p8%` Local port = `%p9%` Remote inet address = `%p10%` Remote port = `%p11%`

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32
p8	VarFmtByteArray
p9	uInt16
p10	VarFmtByteArray
p11	uInt16

ExtLibA.SockLib.JoinMcastGrpFail

Description

Multicast group join error.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to join Multicast group. Sockets error code = `%p1%` Multicast group address = `%p2%` Socket ID = `%p3%` Socket type = `%p4%` Socket family = `%p5%` Socket protocol = `%p6%` Application handle = `%p7%` Stub socket handle = `%p8%`

Message Parameters

Name	Type
p1	sInt
p2	VarFmtByteArray
p3	sInt
p4	xInt32
p5	xInt32
p6	xInt32
p7	uInt32
p8	uInt32

ExtLibA.SockLib.LeaveMcastGrpFail

Description

Multicast group leave error.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to leave Multicast group. Sockets error code = `%p1%` Multicast group address = `%p2%` Socket ID = `%p3%` Socket type = `%p4%` Socket family = `%p5%` Socket protocol = `%p6%` Application handle = `%p7%` Stub socket handle = `%p8%`

Message Parameters

Name	Type
p1	sInt
p2	VarFmtByteArray
p3	sInt
p4	xInt32
p5	xInt32
p6	xInt32
p7	uInt32
p8	uInt32

ExtLibA.SockLib.GetIfAddrFail

Description

Failed to look up interface address using ioctl(SIOCGIFADDR).

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get interface IP address. Sockets error code = %p1% Interface index = %p2% Socket ID = %p3% Socket type = %p4% Socket family = %p5% Socket protocol = %p6% Application handle = %p7% Stub socket handle = %p8%

Message Parameters

Name	Type
p1	sInt
p2	uInt32
p3	sInt
p4	xInt32
p5	xInt32
p6	xInt32
p7	uInt32
p8	uInt32

ExtLibA.SockLib.GetIfAddrMapTblFail

Description

Failed to get interface address mapping table.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get interface address mapping table. Windows error code = %p1%

Message Parameters

Name	Type
p1	uInt32

ExtLibA.SockLib.FndIfInMapTblFail

Description

Failed to find interface in mapping table.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to find interface in mapping table. Interface index requested : `%p1%` Local error code : `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	sInt

ExtLibA.SockLib.ProcMcastSockOK

Description

Processed an ATG_SCK_MCAST_SOCKET IPS successfully.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Successfully processed ATG_SCK_MCAST_SOCKET. Socket ID = `%p1%` Multicast group address = `%p2%` Socket type = `%p3%` Socket family = `%p4%` Socket protocol = `%p5%`

Application handle = %p6% Stub socket handle = %p7% Local inet address = %p8% Local port = %p9%

Message Parameters

Name	Type
p1	sInt
p2	VarFmtByteArray
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32
p8	VarFmtByteArray
p9	uInt16

ExtLibA.SockLib.AllocMapTblMemFail

Description

Failed to allocate memory for mapping table.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to allocate memory for mapping table.

ExtLibA.SockLib.GetIfNameIfIndxFail

Description

Failed to look up interface name using ifIndexTpIfp().

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get interface name for interface index `%p1%`.

Message Parameters

Name	Type
p1	xInt32

ExtLibA.SockLib.SetIPFwdHookFail

Description

Failed to set the IP forwarding hook.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to set the IP forwarding hook Signal status = `%p1%` Socket ID = `%p2%` Socket type = `%p3%` Socket family = `%p4%` Socket protocol = `%p5%` Application handle = `%p6%` Stub socket handle = `%p7%`

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32

ExtLibA.SockLib.GetIfCfgFail

Description

Failed to look up interface configuration using ioctl(SIOCGIFCONF).

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to get interface configuration. SIOCGIFCONF = `%p1%` Sockets error code = `%p2%` IF index = `%p3%` Socket ID = `%p4%` Socket type = `%p5%` Socket family = `%p6%` Socket protocol = `%p7%` Application handle = `%p8%` Stub socket handle = `%p9%`

Message Parameters

Name	Type
p1	xInt32
p2	sInt
p3	xInt32
p4	sInt
p5	xInt32
p6	xInt32

Name	Type
p7	xInt32
p8	uInt32
p9	uInt32

ExtLibA.SockLib.SetTCPMD5OptFailParmInv

Description

Failed to set TCP MD5 password option because of invalid password length or remote address type.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to set TCP MD5 password option because of invalid parameter. Password length = `%p1%` Remote address type = `%p2%` Socket address type = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt8
p3	sInt32

ExtLibA.SockLib.SetTCPMD5OptFail

Description

Failed to set TCP MD5 password option because of sockets error.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to set TCP MD5 password option. Sockets error code = `%p1%` Socket ID = `%p2%` Socket type = `%p3%` Socket family = `%p4%` Socket protocol = `%p5%` Application handle = `%p6%` Stub socket handle = `%p7%`

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32

ExtLibA.SockLib.WritSockFail

Description

OS error when trying to write to socket.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Socket write error. Sockets error code = %p1% Socket ID = %p2% Socket type = %p3% Socket family = %p4% Socket protocol = %p5% Application handle = %p6% Stub socket handle = %p7% Dest IP Addr = %p8%

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32
p8	VarFmtByteArray

ExtLibA.SockLib.TLSCnctFail

Description

A TLS connection attempt failed.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

A TLS connection attempt failed: Socket ID = %p1% Socket type = %p2% Socket family = %p3% Socket protocol = %p4% Application handle = %p5% Stub socket handle = %p6% Local inet address = %p7% Local port = %p8% Remote inet address = %p9% Remote port = %p10%

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32
p4	xInt32
p5	uInt32
p6	uInt32
p7	VarFmtByteArray
p8	uInt16
p9	VarFmtByteArray
p10	uInt16

ExtLibA.SockLib.UseTLSFailNonTCPSock

Description

Attempted to use TLS on a socket which is not TCP or SCTP.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Attempted to use TLS on a socket which is not TCP or SCTP: Socket ID = `%p1%` Socket type = `%p2%` Socket family = `%p3%` Socket protocol = `%p4%` Application handle = `%p5%` Stub socket handle = `%p6%` Remote inet address = `%p7%` Remote port = `%p8%`

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32

Name	Type
p4	xInt32
p5	uInt32
p6	uInt32
p7	VarFmtByteArray
p8	uInt16

ExtLibA.SockLib.SetPktInfoSockOptFail

Description

Failed to set IP_PKTINFO or IPV6_PKTINFO socket option.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to set IP_PKTINFO or IPV6_PKTINFO socket option. Sockets stub may be unable to determine incoming interface for data arriving on this socket. Sockets error code = `%p1%` Socket ID = `%p2%` Socket type = `%p3%` Socket family = `%p4%` Socket protocol = `%p5%` Application handle = `%p6%` Stub socket handle = `%p7%`

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32

ExtLibA.SockLib.CruptPktByteDump

Description

The Test socket stub has corrupted a packet.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Corrupted Packet. Byte dump of packet before corruption = `%p1%`

Message Parameters

Name	Type
p1	HexPktByteArray

ExtLibA.SockLib.GetPktInfoFail

Description

Failed to get packet information. Note: If the traced error number, %2, is 0 then the IP stack did not provide the required ancillary data.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to get packet information using IP_PKTINFO or IPV6_PKTINFO. Socket = %p1% recvmsg error code (or 0 if none) = %p2%

Message Parameters

Name	Type
p1	xInt32
p2	uInt32

ExtLibA.SockLib.InIfIndxInv

Description

Incoming interface index of packet is invalid.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Invalid incoming interface index = %p1% Socket ID = %p2% Socket type = %p3% Socket family = %p4% Socket protocol = %p5% Application handle = %p6% Stub socket handle = %p7%

Message Parameters

Name	Type
p1	xInt32
p2	sInt
p3	xInt32
p4	xInt32
p5	xInt32
p6	uInt32
p7	uInt32

ExtLibA.SockLib.TCPCnctNew

Description

TCP or SCTP connection.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

New TCP or SCTP connection. Socket ID = `%p1%` Local address type = `%p2%` Local IP address = `%p3%` Local port = `%p4%` Remote address type = `%p5%` Remote IP address = `%p6%` Remote port = `%p7%`

Message Parameters

Name	Type
p1	sInt
p2	xInt8
p3	VarFmtByteArray
p4	uInt16
p5	xInt8
p6	VarFmtByteArray
p7	uInt16

ExtLibA.SockLib.BldIncrctForSys

Description

The build of the Sockets Stub being run is incorrect for this version of the Windows Operating System.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

The build of the Sockets Stub being run is incorrect for this version of the Windows Operating System. Win 2000 Build ? = %p1% Win 2000 OS (or above) ? = %p2% OS Platform Id = %p3% OS Major Version number = %p4% OS Minor Version number = %p5%

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	uInt32
p4	uInt32
p5	uInt32

ExtLibA.SockLib.ReadFailWaitDataBufPost

Description

Couldn't read data from a socket because buffer post is outstanding.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

The sockets stub couldn't read available data from a socket because it is waiting for a data buffer to be posted for this socket. Socket ID = %p1% Socket type = %p2% Socket family = %p3% Socket protocol = %p4% Application handle = %p5% Stub socket handle = %p6%

Message Parameters

Name	Type
p1	uInt
p2	xInt32
p3	xInt32
p4	xInt32
p5	uInt32
p6	uInt32

ExtLibA.SockLib.AllocReadDataBufFail

Description

Couldn't allocate a buffer to read data from a socket.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Couldn't allocate a buffer to read available data from a socket. The data will be read when the N-BASE posts a buffer to the sockets stub. Socket ID = `%p1%` Socket type = `%p2%` Socket family = `%p3%` Socket protocol = `%p4%` Application handle = `%p5%` Stub socket handle = `%p6%`

Message Parameters

Name	Type
p1	uInt
p2	xInt32
p3	xInt32
p4	xInt32
p5	uInt32
p6	uInt32

ExtLibA.SockLib.ReadFail

Description

Socket read call failed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Socket read call failed. Socket ID = `%p1%` read/recv() call rc = `%p2%` errno/GetLastError() = `%p3%` Socket type = `%p4%` Socket family = `%p5%` Socket protocol = `%p6%` Application handle = `%p7%` Stub socket handle = `%p8%`

Message Parameters

Name	Type
p1	uInt
p2	sInt
p3	sInt
p4	xInt32
p5	xInt32
p6	xInt32
p7	uInt32
p8	uInt32

ExtLibA.SockLib.CreatHndlFail

Description

Failed to create a handle for a linked IPv4 socket

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to create a linked IPv4 socket handle when creating a socket pair. Linked IPv6 socket = `%p1%` Linked socket type = `%p2%` Linked socket family = `%p3%` Linked socket handle = `%p4%` Application handle = `%p5%`

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32
p4	uInt32
p5	uInt32

ExtLibA.SockLib.OpenSCTPSockFail

Description

The socket stub user attempted to open an SCTP socket, but SCTP support is not available. SCTP is only available on patched Linux kernels and is indicated by the presence of the file /usr/include/netinet/sctp.h The SCK stub will not be able to use the SCTP transport protocol.

Remedy

Install the necessary kernel patch to support SCTP and rebuild the socket stub on a machine with the patched kernel.

Severity

Warning

Message Text

Failed to open an SCTP socket - the OS does not support SCTP

ExtLibA.SockLib.WritSCTPSockFail

Description

OS error while trying to write to an SCTP socket.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

SCTP Socket write error. Sockets error code = `%p1%` Socket ID = `%p2%` Stream number = `%p3%`

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	uInt16

ExtLibA.SockLib.ReadSCTPSockFail

Description

OS error while trying to read from an SCTP socket.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

SCTP Socket read error. Sockets error code = %p1% Socket ID = %p2%

Message Parameters

Name	Type
p1	sInt
p2	sInt

ExtLibA.SockLib.ReadSCTPSockDataIncmplt

Description

Incomplete data message read from an SCTP socket.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Incomplete data message read from an SCTP socket. Socket ID = %p1% Stream number = %p2% Received flags = %p3%

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt16

ExtLibA.SockLib.SetSCTPSockOptFail

Description

Failed to set an SCTP socket option.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to set an option on an SCTP socket. Socket option = `%p1%` Sockets error code = `%p2%` Socket ID = `%p3%`

Message Parameters

Name	Type
p1	xInt
p2	sInt
p3	sInt

ExtLibA.SockLib.SCTPStrmNumOutOfRange

Description

Couldn't send data on an SCTP socket as the stream number was out of range.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Stream number on SCTP socket out of range: Socket ID = `%p1%` Socket type = `%p2%` Socket family = `%p3%` Socket protocol = `%p4%` Application handle = `%p5%` Stub socket handle = `%p6%` Maximum stream number = `%p7%` Requested outbound stream count = `%p8%` Negotiated outbound stream count = `%p9%` Negotiated inbound stream count = `%p10%`

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32
p4	xInt32
p5	uInt32
p6	uInt32
p7	uInt16
p8	uInt16
p9	uInt16
p10	uInt16

ExtLibA.SockLib.RecvSCTPCommNtfn

Description

SCTP communication up notification received.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

SCTP communication up notification received. Socket ID = `%p1%` Socket type = `%p2%` Socket family = `%p3%` Socket protocol = `%p4%` Application handle = `%p5%` Stub socket handle = `%p6%` Maximum stream number = `%p7%` Negotiated outbound stream count = `%p8%` Negotiated inbound stream count = `%p9%`

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32

Name	Type
p4	xInt32
p5	uInt32
p6	uInt32
p7	uInt16
p8	uInt16
p9	uInt16

ExtLibA.SockLib.EnblIfAllMcast

Description

All-multicast mode enabled for an interface.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

All-multicast mode enabled for interface `%p1%`

Message Parameters

Name	Type
p1	uInt32

ExtLibA.SockLib.DsblIfAllMcast

Description

All-multicast mode disabled for an interface.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

All-multicast mode disabled for interface %p1%

Message Parameters

Name	Type
p1	uInt32

ExtLibA.SockLib.EnblIfAllMcastFail

Description

Failed to enable all-multicast mode for an interface.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Failed to enable all-multicast mode for interface %p1% Error code = %p2%

Message Parameters

Name	Type
p1	uInt32
p2	sInt32

ExtLibA.SockLib.GetRecvMsgInfoFail

Description

The SCTP stack did not return the received message information.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to get received message information. Socket ID = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.SockLib.OpenLstnSock

Description

Opened listening socket.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

New listening socket opened. Socket ID = `%p1%` Socket type = `%p2%` Socket family = `%p3%` Socket protocol = `%p4%` IF index = `%p5%` Local IP address = `%p6%` Local port = `%p7%`

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32

Name	Type
p4	xInt32
p5	xInt32
p6	VarFmtByteArray
p7	uInt16

ExtLibA.SockLib.CloseSock

Description

Closed and cleaned up a socket.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Closed a socket Socket ID = `%p1%` Socket type = `%p2%` Socket family = `%p3%` Socket protocol = `%p4%`

Message Parameters

Name	Type
p1	sInt
p2	xInt32
p3	xInt32
p4	xInt32

ExtLibA.SockLib.ShutdownSockFail

Description

Failed to shutdown a socket.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Warning

Message Text

Failed to shutdown sending or receiving on a socket. Sockets error code = `%p1%` Socket ID = `%p2%` Direction = `%p3%`

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	xInt8

ExtLibA.SockLib.IPv6McastRtSockNotSuprt

Description

IPv6 multicast routing socket functionality is not available in this instance of the sockets stub. Multicast routing sockets will not be available.

Remedy

Confirm that the sockets stub has been built with support for IPv6 multicast routing socket functionality available. On Linux this involves patching the kernel.

Severity

Warning

Message Text

Sockets stub has not been built on a system with support for IPv6 multicast routing socket functionality.

ExtLibA.SockLib.OpenRTNETLINKSockFail

Description

Failed to open an RTNETLINK socket on Linux. Stub will not be able to query the OS for interface addresses.

Remedy

Confirm support for RTNETLINK sockets is enabled.

Severity

Error

Message Text

Failed to open an RTNETLINK socket. Unable to get interface addresses. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.SockLib.BndRTNETLINKSockFail

Description

Failed to bind an RTNETLINK socket on Linux. Stub will not be able to query the OS for interface addresses.

Remedy

Confirm support for RTNETLINK sockets is enabled.

Severity

Error

Message Text

Failed to bind an RTNETLINK socket. Unable to get interface addresses. Sockets error code = `%p1%`

Message Parameters

Name	Type
p1	sInt

ExtLibA.SockLib.AllocBndIfFail

Description

The sockets stub was unable to allocate memory to create a bind entry for an interface. The MUX bind will not succeed and the required hook will not be inserted. This will break explicit interface functionality in the stub.

Remedy

Resolve the low memory condition.

Severity

Error

Message Text

Failed to allocate memory while attempting to bind a packet hook to interface index `%p1%` . Explicit IF functionality will not work on this interface.

Message Parameters

Name	Type
p1	xInt32

ExtLibA.SockLib.ReadSockEmpty

Description

We have made multiple read calls, and there is nothing on the socket. This can happen in certain race conditions, and is not regarded as an error.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Socket read call failed as there was nothing to read on the socket. Socket ID = %p1% Socket type = %p2% Socket family = %p3% Socket protocol = %p4% Application handle = %p5% Stub socket handle = %p6%

Message Parameters

Name	Type
p1	uInt
p2	xInt32
p3	xInt32
p4	xInt32
p5	uInt32
p6	uInt32

ExtLibA.SockLib.DropKernNtfnInvData

Description

A kernel notification was received containing invalid or corrupted data. The notification was dropped.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

A kernel notification containing invalid data purportedly from virtual i/f %p1% has been dropped.

Message Parameters

Name	Type
p1	uInt32

ExtLibA.SockLib.DropKernNtfnVIfDsbl

Description

A kernel notification was received relating to an interface which is not enabled. The notification was dropped.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A kernel notification was received relating to virtual i/f `%p1%`, which is not enabled

Message Parameters

Name	Type
p1	uInt32

ExtLibA.SockLib.McastFwdEntInvIfIndx

Description

A multicast forwarding entry was received with an invalid interface index - at least one interface does not exist or has not been enabled. The forwarding entry was not programmed.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Could not program a multicast forwarding entry for (`%p1%`,`%p2%`): invalid i/f index `%p3%`.

Message Parameters

Name	Type
p1	VarFmtByteArray
p2	VarFmtByteArray
p3	uInt32

ExtLibA.SockLib.RecvPkt

Description

A packet has been received by the socket.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Packet received by socket. Socket ID = `%p1%` Socket type = `%p2%` Socket family = `%p3%` Socket protocol = `%p4%` Application handle = `%p5%` Stub socket handle = `%p6%` Bytes received = `%p7% %p8%`

Message Parameters

Name	Type
p1	uInt
p2	xInt32
p3	xInt32
p4	xInt32
p5	uInt32
p6	uInt32
p7	sInt
p8	HexByteArray

ExtLibA.SockLib.RejctSockOpenInvType

Description

Rejected a request to open a socket due to incorrect socket type.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Invalid socket type `%p2%` on open socket request. Must be raw or datagram. Application socket handle = `%p1%` Socket family = `%p3%` Socket protocol = `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32
p4	xInt32

ExtLibA.SockLib.RejctSockOpenInvFam

Description

Rejected a request to open a socket due to incorrect socket family.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Invalid socket family %p3% on open socket request. Must be IPv4 or IPv6. Application socket handle = %p1% Socket type = %p2% Socket protocol = %p4%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32
p4	xInt32

ExtLibA.SockLib.RejctMcastSockOpen

Description

Rejected a request to open a multicast socket to connect or listen.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Invalid open mcast socket request. Must not be set to connect or listen. Application socket handle = %p1% Socket type = %p2% Socket family = %p3% Socket protocol = %p4% Socket action flags = %p5%

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32
p4	xInt32
p5	uInt32

ExtLibA.SockLib.RejctSockOpenNoBrdgDmn

Description

Rejected a request to open a multicast socket as binding to a bridge domain is not supported.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Request to open socket rejected. Binding to bridge domain not supported. Application socket handle = `%p1%` Socket type = `%p2%` Socket family = `%p3%` Socket protocol = `%p4%`

Message Parameters

Name	Type
p1	uInt32
p2	xInt32
p3	xInt32
p4	xInt32

ExtLibA.SockLib.FndIPv4AddrOnIfFail

Description

Failed to find an IPv4 address on an interface. All-multicast mode will not be enabled on the interface.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Did not find IPv4 address on i/f %p1%. Cannot enable all-multicast mode.

Message Parameters

Name	Type
p1	uInt32

ExtLibA.SockLib.RejctSockOpenReq

Description

The MPF stub has tried to open more than one socket with the ATG_SCK_XSO_MRT_MPF option or multiple instances of the MPF stub have set the option. The requested multicast socket will not be available.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

Error

Message Text

Request to open socket rejected - report error Diagnostic information for support: Multiple processes have attempted to set the ATG_SCK_XSO_MRT_MPF option Requesting process ID = %p1% Existing process ID = %p2%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

ExtLibA.SockLib.IfIndxMapFail

Description

Failed to map a system-wide interface index to an interface index that is locally unique. The mapping is required to find an interface index that a socket is supposed to be bound to. If a locally unique interface index is not found then the socket stub is not able to perform this binding.

Remedy

This is an internal socket library issue. Please try the following: check protocol and interface configuration, restart the protocol, reboot the system. If the event still occurs then contact technical support with the output of "show tech".

Severity

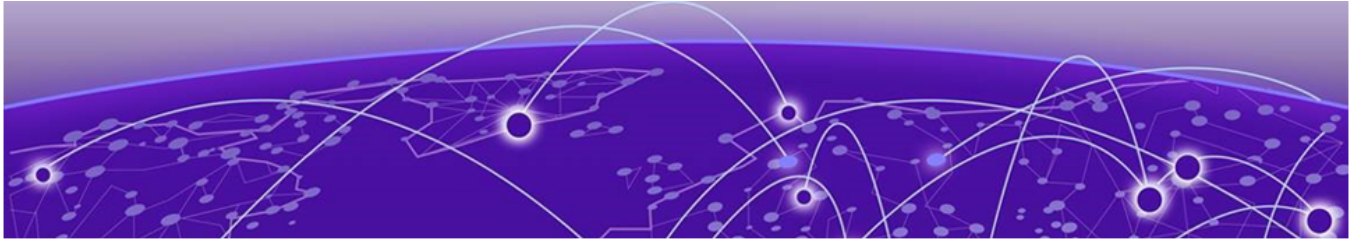
Warning

Message Text

Failed to map system-wide i/f index `%p1%` to a locally unique one.

Message Parameters

Name	Type
p1	uInt32



ExtLibA.SystemRoot Messages

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ExtLibA.SystemRoot.AssrtFailOper

Description

An assert has failed. If assert_dlg is set to 'Continue', execution will continue. Otherwise, the program asserts according to the method in assert_dlg.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Error

Message Text

Assert Fail: `%p6%:%p7%`: '`%p1%` (`%p4%`) `%p3%` `%p2%` (`%p5%`)' nasserts=`%p8%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	String

Name	Type
p6	String
p7	sInt
p8	uInt

ExtLibA.SystemRoot.DumpMemToFile

Description

The memory associated with the indicated process is to be dumped to file. Memory is dumped to the indicated file.

Remedy

No action required - Informational message only. May be of interest to developers to trace and debug events

Severity

Info

Message Text

Dumping memory to file: proc id=`%p1%`, proc type=`%p2%`, file=`%p3%`

Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	String

ExtLibA.SystemRoot.AssrtFail

Description

An assert has failed. If assert_dlg is set to 'Continue', execution will continue. Otherwise, the program asserts according to the method in assert_dlg.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". System Restart may be required for continued operation.

Severity

Error

Message Text

Assert Fail: file %p2%:%p3%: '%p1%' nasserts=%p4%

Message Parameters

Name	Type
p1	String
p2	String
p3	sInt
p4	uInt

ExtLibA.SystemRoot.MsgStreamInv

Description

There was an attempt to get / set PD log filtering parameters for a PD log stream which does not exist. Log filtering will not be get/set as requested.

Remedy

No action required - Informational message only. May be of interest to developers to trace and debug events

Severity

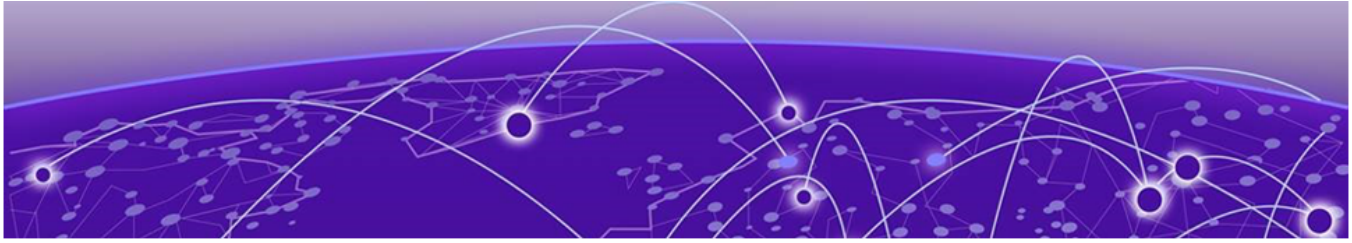
Warning

Message Text

Attempt to get / set PD log filtering parameter for invalid stream %p1%

Message Parameters

Name	Type
p1	sInt



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FDB.info

Description

display debug information

Remedy

display debug information

Severity

Info

Message Text

```
%info%
```

Message Parameters

Name	Type
info	String

FDB.trace

Description

display trace information

Remedy

display trace information

Severity

Debug-Data

Message Text

```
%trace%
```

Message Parameters

Name	Type
trace	String

FDB.error

Description

display error message

Remedy

dispaly error message

Severity

Error

Message Text

```
%error%
```

Message Parameters

Name	Type
error	Printf

FDB.ipv6NeighUpdate

Description

Informs the user of a neighbor getting a new state. This occurs on both addition and update of a neighbor.

Remedy

No remedy is available.

Severity

Info

Message Text

`%addr%` now has state 0x`%state%`

Message Parameters

Name	Type
addr	IPv6
state	xInt32

FDB.ipv6NeighDelete

Description

Happens when the FDB manager has been notified by the kernel that a neighbor has been deleted.

Remedy

No remedy is available.

Severity

Info

Message Text

`%addr%` is being deleted.

Message Parameters

Name	Type
addr	IPv6

FDB.ipv6StaticNeighTrace

Description

Informs the user of a neighbor getting a new state. This occurs on both addition and update of a neighbor.

Remedy

No remedy is available.

Severity

Info

Message Text

`%addr% %mesg%`

Message Parameters

Name	Type
addr	IPv6
mesg	Printf

FDB.VLANNotMPLSEnbl

Description

The MAC SA was not learned because the ingress vlan that the packet was received on did not have MPLS enabled.

Remedy

Enable MPLS on the ingress vlan and correctly configure it.

Severity

Warning

Message Text

Discarded MAC SA learn of mac=`%mac%` VPLS=`%vplsName%` Peer=`%peer%` label=`%label%` vlan=`%vlanId%` because MPLS was not enabled

Message Parameters

Name	Type
vlanId	VLAN-tag
mac	srcMAC
label	uInt32
vplsName	String
peer	SockAddr

FDB.VPLSPeerNotFound

Description

An attempt to locate the VPLS LDP peer for the pseudowire label failed to find a match.

Remedy

No remedy is available.

Severity

Warning

Message Text

Failed to locate a VPLS peer for label `%label%`

Message Parameters

Name	Type
label	uInt32

FDB.FdbCritical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.FdbError

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.FdbInfo

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed

information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.FdbDebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.FdbDebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolve

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.ArpError

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.ArpInfo

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.ArpDebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.ArpDebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.FilterError

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.FilterInfo

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.FilterDebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.NetloginInfo

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.NetloginDebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.FdbNotice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.ArpNotice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.FilterNotice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.NetLoginNotice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FDB.arpViolation

Description

The switch received either a Gratuitous or Solicited ARP request with a IP SA that matches our own IP on the interface. This will likely lead to an unstable network environment.

Remedy

Remove the duplicate IP address from one of the two switches.

Severity

Warning

Message Text

`%type%` ARP violation on VR `%vr%` VLAN `%vlan%` port `%sp%` ipaddr `%ip%` mac `%mac%`

Message Parameters

Name	Type
type	String
vr	String
vlan	VLAN
sp	SlotPort
ip	IP
mac	MAC

FDB.ipv6NeighPurged

Description

A dynamic or static ND6 entry is being automatically removed because a conflicting IPv6 address was added to the switch.

Remedy

N/A - Informational

Severity

Warning

Message Text

`%addr%` (`%mac%`) removed due to new router address addition.

Message Parameters

Name	Type
addr	IPv6
mac	MAC

FDB.VPLSPeerNotFoundLearn

Description

An attempt to locate the VPLS LDP peer for the pseudowire label failed to find a match during a fdb learn.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Failed to locate a VPLS peer for label `%label%` during learn

Message Parameters

Name	Type
label	uInt32

FDB.FasterRefTimeAct

Description

Faster refresh time gets activated to achieve shorter FDB aging time (10-14). Valid only for total dynamic FDB entries of 4K.

Remedy

N/A - Informational

Severity

Notice

Message Text

To achieve shorter aging time (less than 15), faster refresh time (`%refresh%`) is being activated.

Message Parameters

Name	Type
refresh	uInt32

FDB.FasterRefTimeDeact

Description

Faster refresh time gets deactivated since total dynamic FDB entries is more than 4096.

Remedy

N/A - Informational

Severity

Notice

Message Text

New refresh time is being set to (`%newrefresh%`) from (`%oldrefresh%`). This is because total dynamic FDB entries (`%totalentries%`) is greater than 4096.

Message Parameters

Name	Type
newrefresh	uInt32
oldrefresh	uInt32
totalentries	uInt32

FDB.IPv6StaticNbrExist

Description

An IPv6 address was added to the switch for which a static neighbor entry already exists

Remedy

Either unconfigure the IPv6 address or remove the static neighbor entry

Severity

Error

Message Text

Static neighbor entry exists for `%addr%` (`%mac%`).

Message Parameters

Name	Type
addr	IPv6
mac	MAC

FDB.StrtFlushPort

Description

Faster refresh time gets deactivated since total dynamic FDB entries is more than 4096.

Remedy

No Remedy. This is debug information

Severity

Debug-Data

Message Text

Starting Flush Port for `%port%`.

Message Parameters

Name	Type
port	SlotPort

FDB.StopFlushPort

Description

Faster refresh time gets deactivated since total dynamic FDB entries is more than 4096.

Remedy

No Remedy. This is debug information

Severity

Debug-Data

Message Text

Completed Flush for port `%port%`.

Message Parameters

Name	Type
port	SlotPort

FDB.DtectMACCflctStaticMAC

Description

When a static MAC entry is configured and then the same MAC is learned on a different port, The switch logs the source MAC address, the received port number, and the VLAN name learned for the duplicate MAC. This event occurs when the static-mac-move configuration is enabled in a switch.

Remedy

Check the pre-existing static MAC entry information on the switch and verify that the static MAC entry is configured with the right port information. If the static MAC is configured for the correct port, this event might indicate MAC movement from one port to the other port. This event might also indicate a network security attack using bogus packets with the same MAC address dynamically learned on the additional port.

Severity

Notice

Message Text

MAC Learning packet with source MAC `%mac%` is detected on port `%port%` and VLAN `%vlan%` which conflicts the pre-existing static MAC entry

Message Parameters

Name	Type
mac	srcMAC
port	String
vlan	VLAN

FDB.MACMove

Description

This event gets logged when a MAC address moves from one port to another.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

MAC `%mac%` on VLAN `%vlanId%` moved from port `%sport%` to port `%dport%`

Message Parameters

Name	Type
mac	MAC
vlanId	VLAN-tag
sport	SlotPort
dport	SlotPort

FDB.MACAdd

Description

This event gets logged when a new MAC address is learnt.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

MAC `%mac%` was added on VLAN `%vlanId%` port `%port%` with type `%entryType%`

Message Parameters

Name	Type
mac	MAC
vlanId	VLAN-tag
port	SlotPort
entryType	xInt32

FDB.MACDel

Description

This event gets logged when a MAC address is deleted.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

MAC %mac% was deleted from VLAN %vlanId% port %port%

Message Parameters

Name	Type
mac	MAC
vlanId	VLAN-tag
port	SlotPort

FDB.SendFDBAddToHAL

Description

This event gets logged when FDB module sends a MAC Add message to HAL.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

MAC Add sent to HAL for %mac% VLAN %vlanId% port %port% type %entryType% numPorts %numPorts%

Message Parameters

Name	Type
mac	MAC
vlanId	VLAN-tag
port	SlotPort
entryType	xInt32
numPorts	uInt32

FDB.SendFDBDelToHAL

Description

This event gets logged when FDB module sends a MAC Delete message to HAL.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

MAC Delete sent to HAL for `%mac%` VLAN `%vlanId%` type `%entryType%`

Message Parameters

Name	Type
mac	MAC
vlanId	VLAN-tag
entryType	xInt32

FDB.SendFDBAgeToHAL

Description

This event gets logged when FDB module sends a MAC Age message to HAL.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

MAC Age message sent to HAL for `%mac%` vlanInstance `%vlanInst%`

Message Parameters

Name	Type
mac	MAC
vlanInst	uInt32

FDB.ArpWarn

Description

An information to the user which is of severity Warning

Remedy

There is no remedy because there is no problem to be resolved.

Severity

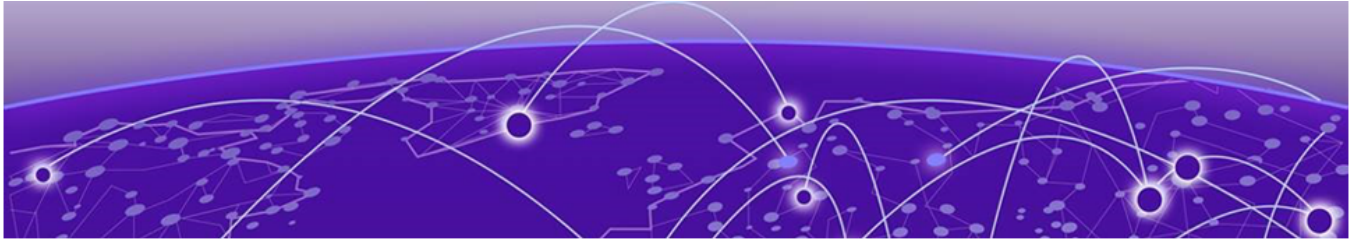
Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



FDB.MACLocking Messages

FDB.MACLocking.FrstArrvLrnLmtRch on page 1617
FDB.MACLocking.FirstArrvLrnLmtExcd on page 1618
FDB.MACLocking.SetSNMPFail on page 1618

FDB.MACLocking.FrstArrvLrnLmtRch

Description

This event occurs when the configured first-arrival MAC address limit has been reached. The first arrival learn limit can be configured using "configure mac-locking ports <port_list> first-arrival limit-learning <learn_limit>" CLI command. This event gets logged only when logging is enabled using "configure mac-locking ports <port_list> log threshold on" CLI command.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Reached first-arrival MAC address learning limit of `%limit%` on port `%port%`

Message Parameters

Name	Type
limit	uInt16
port	SlotPort

FDB.MACLocking.FirstArrvLrnLmtExcd

Description

This event occurs when a MAC address cannot be learned as the configured MAC address threshold has been exceeded on the port. This event gets logged only when logging is enabled using "configure mac-locking ports <port_list> log violation on" CLI command.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

MAC address `%macAddr%` not learned on port `%port%` as MAC address learning limit has been exceeded.

Message Parameters

Name	Type
macAddr	MAC
port	SlotPort

FDB.MACLocking.SetSNMPFail

Description

This message is logged when SNMP set fails for the MAC locking objects. Since SNMP does not allow descriptive feedback (like CLI) in the protocol, this message will aid in debugging. The message logged will be the same message that is displayed during CLI configuration failures. The parameter op can take the following values of MAC Lock Port Config Set or MAC Lock Station Set.

Remedy

No action required - Informational message only.

Severity

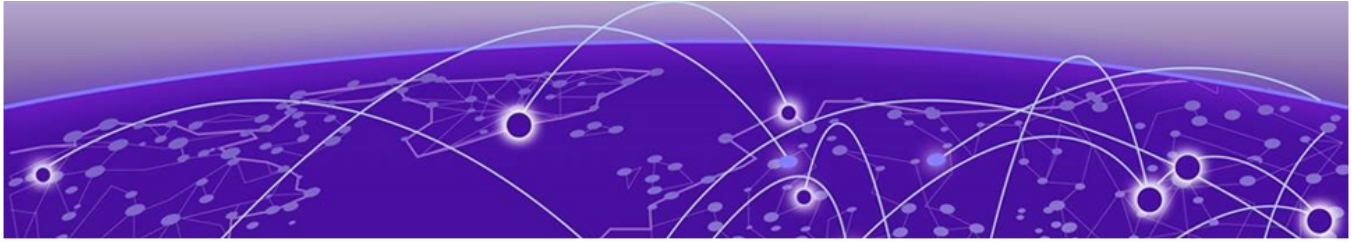
Debug-Summary

Message Text

The SNMP `%op%` operation failed because `%format%`

Message Parameters

Name	Type
op	String
format	Printf



FDB.MACTracking Messages

FDB.MACTracking.MACMove on page 1620
FDB.MACTracking.MACAdd on page 1621
FDB.MACTracking.MACDel on page 1621

FDB.MACTracking.MACMove

Description

A MAC move was detected, and as a result this log message is generated.

Remedy

N/A - Informational

Severity

Notice

Message Text

The MAC address `%mac%` on VLAN \"`%vlan%`\" has moved from port `%sport%` to port `%dport%`

Message Parameters

Name	Type
mac	MAC
vlan	VLAN
sport	SlotPort
dport	SlotPort

FDB.MACTracking.MACAdd

Description

A MAC add was detected, and as a result this log message is generated.

Remedy

N/A - Informational

Severity

Notice

Message Text

The MAC address `%mac%` was added on VLAN \"`%vlan%`\", port `%port%`

Message Parameters

Name	Type
mac	MAC
vlan	VLAN
port	SlotPort

FDB.MACTracking.MACDel

Description

A MAC delete was detected, and as a result this log message is generated.

Remedy

N/A - Informational

Severity

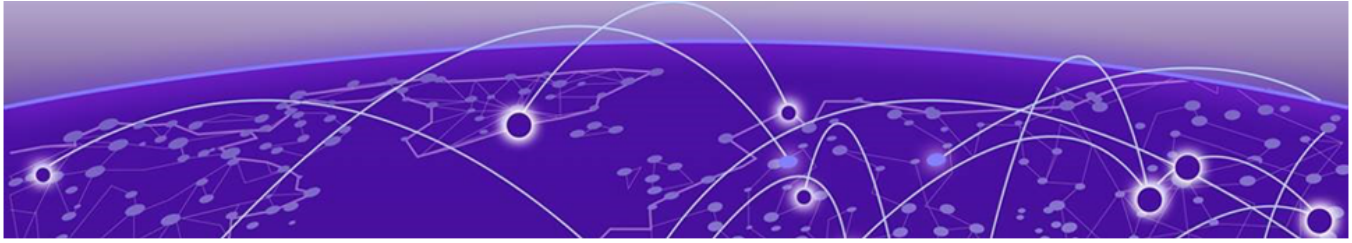
Notice

Message Text

The MAC address `%mac%` was deleted from VLAN \"`%vlan%`\", port `%port%`

Message Parameters

Name	Type
mac	MAC
vlan	VLAN
port	SlotPort



FlowMon Messages

FlowMon.Critical on page 1623
FlowMon.Error on page 1624
FlowMon.Warning on page 1624
FlowMon.Notice on page 1625
FlowMon.Info on page 1625
FlowMon.DebugSummary on page 1626
FlowMon.DebugVerbose on page 1627
FlowMon.DebugData on page 1627
FlowMon.InitError on page 1628
FlowMon.LibErr on page 1628
FlowMon.DatabaseErr on page 1629

FlowMon.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

FlowMon.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FlowMon.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FlowMon.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required – Notification message only

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FlowMon.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed

information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required – Informational message only

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FlowMon.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required – Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FlowMon.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required – Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FlowMon.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required – Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FlowMon.InitError

Description

To help Engineering debug what is happening

Remedy

Not Applicable.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FlowMon.LibErr

Description

An error has occurred in the Flow Monitor Library. These errors should not occur. They can indicate a software defect, a failure to allocate memory, or a communications error between the Flow Monitor server and client.

Remedy

This is a rare internal condition needing technical assistance. The error message should be indicative of the type of failure.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

FlowMon.DatabaseErr

Description

An error has occurred during the manipulation of the Flow Monitor database. Database manipulation errors should not occur. It is indicative of either a software defect or a failure to allocate memory.

Remedy

This is a rare internal condition needing technical assistance. If the system is not out of memory, then the database should be dumped using the "debug flowmon show database" command and provided along with the related log message to Extreme Networks support personnel for analysis.

Severity

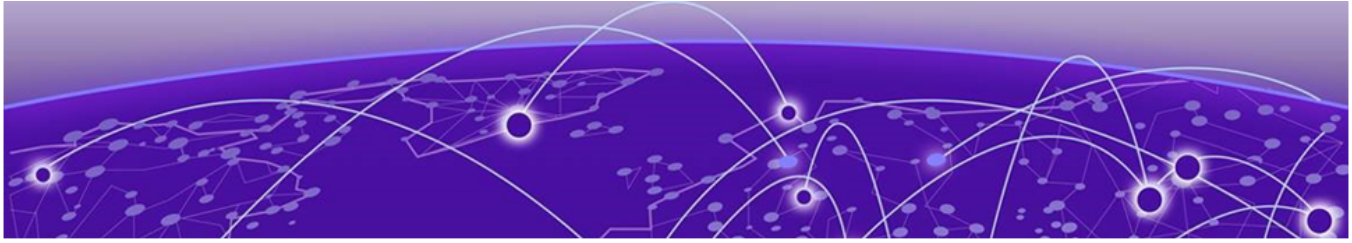
Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



GPTP Messages

GPTP.DebugSummary on page 1630
GPTP.DebugVerbose on page 1631
GPTP.DebugData on page 1631
GPTP.ParmInv on page 1632
GPTP.ERROR on page 1633
GPTP.RxPkt on page 1633
GPTP.TxPkt on page 1634
GPTP.ChgPortState on page 1635
GPTP.AnncRxTmout on page 1635
GPTP.SyncRxTmout on page 1636
GPTP.DscrdRxPTPPckt on page 1637
GPTP.ChgPortIntv on page 1638
GPTP.RxAnncMsg on page 1639
GPTP.TxAnncMsg on page 1639
GPTP.RxSyncMsg on page 1640
GPTP.TxSyncMsg on page 1641
GPTP.ChgGrandMstrClk on page 1642
GPTP.PdelayReqMsg on page 1643
GPTP.PdelayRespMsg on page 1644
GPTP.PdelayRespFollowUpMsg on page 1645

GPTP.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

GPTP.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

GPTP.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

GPTP.ParmInv

Description

Error checking has determined that an invalid parameter has been passed to the function. Example errors are unexpected NULL pointers or parameters out of range. As a result, the action performed may not have worked as intended.

Remedy

There is no known remedy. Inform engineering. Provide as much information as possible including config file, log file, and a description of actions that were being performed when log message was seen.

Severity

Critical

Message Text

Invalid Parameter `%format%`

Message Parameters

Name	Type
format	Printf

GPTP.ERROR

Description

Generic GPTP error message. This is a temporary place holder, and must be replaced prior to code release.

Remedy

TBD

Severity

Error

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

GPTP.RxPkt

Description

Debug log to dump out transmit packet contents

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

GPTP Rx Packet `%port% %ptr% %len%`

Message Parameters

Name	Type
port	SlotPort
ptr	Buf-ptr
len	Buf-len

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.TxPkt

Description

Debug log to dump out transmit packet contents

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

GPTP Tx Packet `%port% %ptr% %len%`

Message Parameters

Name	Type
port	SlotPort
ptr	Buf-ptr
len	Buf-len

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.ChgPortState

Description

This event will occur when the role of the port changes to Disabled, Slave, Master or Passive state.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Port `%port%` role changed to `%state%` state.

Message Parameters

Name	Type
port	SlotPort
state	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.AnncRxTmout

Description

This event will occur when an announce message is not received at a port within the announe receipt time interval i.e., when currentTime >= announceReceiptTimeoutTime.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Announce message receive timeout for port %port%. Announce timeout interval = %AnncTmoutSec%sec %AnncTmoutNsec%nsec : Announce message receive time = %AnncRxTimeSec%sec %AnncRxTimeNsec%nsec.

Message Parameters

Name	Type
port	SlotPort
AnncTmoutSec	uInt64
AnncTmoutNsec	uInt
AnncRxTimeSec	uInt64
AnncRxTimeNsec	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.SyncRxTmout

Description

This event will occur when an sync message is not received at a port within the sync receipt time interval. i.e., when currentTime >= syncReceiptTimeoutTime.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Sync message receive timeout for port %port%. Sync timeout interval = %SyncTmoutSec%sec %SyncTmoutNsec%nsec : Sync message receive time = %SyncRxTimeSec%sec %SyncRxTimeNsec%.

Message Parameters

Name	Type
port	SlotPort
SyncTmoutSec	uInt64
SyncTmoutNsec	uInt
SyncRxTimeSec	uInt64
SyncRxTimeNsec	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.DscrdRxPTPPckt

Description

This event will occur when the received PTP packet is discarded at a port due to any of the following conditions: - The received announce message is not qualified. - A Follow_Up message corresponding to a received Sync message is not received, denoted by a transition of the condition (currentTime >= followUpReceiptTimeoutTime). - A Pdelay_Resp message corresponding to a transmitted Pdelay_Req message is not received, denoted by a transition from the WAITING_FOR_PDELAY_RESP state to the RESET state of the MDPdelayReq state machine. - A Pdelay_Resp_Follow_Up message corresponding to a transmitted Pdelay_Req message is not received, denoted by a transition from the WAITING_FOR_PDELAY_RESP_FOLLOW_UP state to the RESET state of the MDPdelayReq state machine.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

GPTP message received on port `%port%` is discarded because: `%reason%`.

Message Parameters

Name	Type
port	SlotPort
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.ChgPortIntv

Description

This event will occur when there is an interval change for the announce message, sync message or Pdelay request messages.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%msgType%` Interval change on port `%port%`. Current Interval Time : `%intvTimeSec%`sec `%intvTimeNsec%`nsec.

Message Parameters

Name	Type
port	SlotPort
msgType	String
intvTimeSec	uInt64
intvTimeNsec	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.RxAnncMsg

Description

This event will occur when an Announce message is received at the port.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Announce Message received on port `%port%` with parameters: Clock Identity `%clockId%`, Accuracy: `%clockAccuracy%`, Priority1: `%priority1%`, Priority2: `%priority2%`

Message Parameters

Name	Type
port	SlotPort
clockAccuracy	uInt8
priority1	uInt8
priority2	uInt8
clockId	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.TxAnncMsg

Description

This event will occur when an Announce message is transmitted from the port.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Announce Message transmitted on port `%port%` with parameters: Clock Identity `%clockId%`, Accuracy: `%clockAccuracy%`, Priority1: `%priority1%`, Priority2: `%priority2%`.

Message Parameters

Name	Type
port	SlotPort
clockAccuracy	uInt8
priority1	uInt8
priority2	uInt8
clockId	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.RxSyncMsg

Description

This event will occur when a Sync message or a Sync Followup message is received on a port.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received `%msgType%` response on port `%port%` with following parameters: Correction Field:`%correctionField2%`,`%correctionField%`, Source Port Identity: `%clockId%`, SequenceId: `%sequenceId%`, Mean Message Intervel: `%msgInterval%`, Origin Timestamp: sec2=`%secondsField2%` sec1=`%secondsField1%` nanosec=`%nanoSecondsField%`

Message Parameters

Name	Type
port	SlotPort
msgType	String
correctionField2	sInt32
correctionField	uInt32
sequenceId	uInt16
secondsField2	uInt16
secondsField1	uInt32
nanoSecondsField	uInt32
msgInterval	sInt8
clockId	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.TxSyncMsg

Description

This event will occur when a Sync request message or a Sync Followup request message is transmitted from a port.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Transmitted `%msgType%` request from port `%port%` with the following parameters: Correction Field:`%correctionField2%`,`%correctionField%`, ClockId: `%clockId%`, SequenceId: `%sequenceId%`, Mean Message Intervel: `%msgInterval%`, Origin Timestamp: sec2=`%secondsField2%` sec1=`%secondsField1%` nanosec=`%nanoSecondsField%`

Message Parameters

Name	Type
port	SlotPort
msgType	String
correctionField2	sInt32
correctionField	uInt32
sequenceId	uInt16
secondsField2	uInt16
secondsField1	uInt32
nanoSecondsField	uInt32
msgInterval	sInt8
clockId	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.ChgGrandMstrClk

Description

This event will occur when a the Grandmaster of the Time aware system is changed using BMCA algorithm.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

New Grandmaster elected. `%clockId%`, Grandmaster priority1: `%grandMasterPriority1%`, Grandmaster priority2: `%grandMasterPriority2%`, Local system priority1: `%localPriority1%`, Local system priority2: `%localPriority2%`.

Message Parameters

Name	Type
localPriority1	uInt8
localPriority2	uInt8
grandMasterPriority1	uInt8
grandMasterPriority2	uInt8
clockId	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.PdelayReqMsg

Description

This event will occur when a Pdelay request message is transmitted or received on a port of a time aware system.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Pdelay Request `%msgType%` on port `%port%` with the following parameters: Correction Field:`%correctionField2%`,`%correctionField%`, Source Port: `%sourcePort%`, Source Port Identity: `%sourcePortClockId%`, SequenceId: `%sequenceId%`, Mean Message Interval: `%msgInterval%`.

Message Parameters

Name	Type
port	SlotPort
msgType	String
correctionField2	sInt32
correctionField	uInt32

Name	Type
sequenceId	uInt16
msgInterval	sInt8
sourcePort	uInt16
sourcePortClockId	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.PdelayRespMsg

Description

This event will occur when a Pdelay response message is transmitted or received on a port of a time aware system.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Pdelay Response message `%msgType%` on port `%port%` with the following parameters: Correction Field:`%correctionField2%`,`%correctionField%`, `%portIdentity%`, SequenceId: `%sequenceId%`, Mean Message Interval: `%msgInterval%`, Timestamp t2: sec2=`%secondsField2%` sec=`%secondsField1%` nanoSec=`%nanoSeconds%`.

Message Parameters

Name	Type
port	SlotPort
msgType	String
correctionField2	sInt32
correctionField	uInt32
sequenceId	uInt16

Name	Type
msgInterval	sInt8
secondsField2	uInt16
secondsField1	uInt32
nanoSeconds	uInt32
portIdentity	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

GPTP.PdelayRespFollowUpMsg

Description

This event will occur when a Pdelay response followup message is transmitted or received on a port of a time aware system.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Pdelay Response Follow Up message `%msgType%` on port `%port%` with the following parameters: Correction Field:`%correctionField2%`,`%correctionField%`, `%portIdentity%`, SequenceId: `%sequenceId%`, Mean Message Interval: `%msgInterval%`, Timestamp t3: sec2=`%secondsField2%` sec=`%secondsField1%` nanoSec=`%nanoSeconds%`.

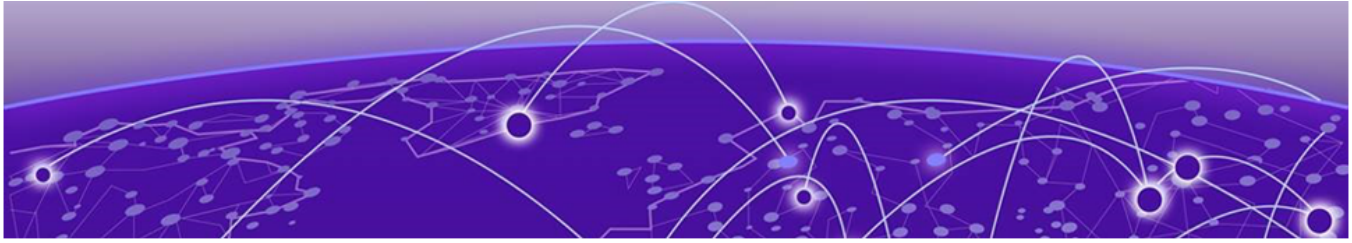
Message Parameters

Name	Type
port	SlotPort
msgType	String
correctionField2	sInt32
correctionField	uInt32

Name	Type
sequenceId	uInt16
msgInterval	sInt8
secondsField2	uInt16
secondsField1	uInt32
nanoSeconds	uInt32
portIdentity	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



GPTP.asCapable Messages

GPTP.asCapable.DebugSummary on page 1647
GPTP.asCapable.DebugVerbose on page 1648
GPTP.asCapable.DebugData on page 1648
GPTP.asCapable.InitSendPdlayReq on page 1649
GPTP.asCapable.PdlayExcd on page 1650
GPTP.asCapable.ClockMismatch on page 1651
GPTP.asCapable.PortMismatch on page 1651
GPTP.asCapable.SeqIdMismatch on page 1652
GPTP.asCapable.SeqIdMatch on page 1653
GPTP.asCapable.ClockMatch on page 1654
GPTP.asCapable.InvRateRatio on page 1655
GPTP.asCapable.NegPdlay on page 1655
GPTP.asCapable.Reset on page 1656
GPTP.asCapable.PdlayExcdFollowUp on page 1657
GPTP.asCapable.PdlayExcdIntTmr on page 1658
GPTP.asCapable.asCapable on page 1659
GPTP.asCapable.PortNotAsCapable on page 1659
GPTP.asCapable.PortNotAsCapableDetail on page 1660
GPTP.asCapable.PortAsCapableTrans on page 1661

GPTP.asCapable.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

GPTP.asCapable.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

GPTP.asCapable.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

GPTP.asCapable.InitSendPdlayReq

Description

This condition occurs when the MDPdelayReq state machine enters the INITIAL_SEND_PDELAY_REQ state as as described in figure 11-8 of the IEEE 802.1AS-2001 document. The port is intialized to not asCapable.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

asCapable is `%asCapable%` => 0, port = `%port%` : INITIAL_SEND_PDELAY_REQ state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort

GPTP.asCapable.PdlayExcd

Description

This condition occurs when the currentTime - pdelayIntervalTime >= pdelayTime. At least the number of allowedLostResponses must occur in a row before the port is set to not asCapable. The MDPdelayReq state machine transitions from the WAITING_FOR_PDELAY_RESP to the RESET stateas described in figure 11-8 of the IEEE 802.1AS-2001 document. Note - this message is only recorded when the number of lost Responses is greater or equal to allowed lost responses as defined in the RESET state.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Did not receive Pdelay Response in time: asCapable is `%asCapable%`, port = `%port%`: (currentTime - pdelayIntervalTimer >= pdelayReqInterval) : currentTime-pdelayIntervalTime: sec = `%sec1%`, nano = `%nano1%`, pdelayReqInterval: sec = `%sec2%`, nano = `%nano2%`: lostResponses = `%lostResponses%`: allowedLostResponses = `%allowedLostResponses%`: Exiting WAITING_FOR_DELAY_RESP to RESET state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort
sec1	uInt64
nano1	uInt
sec2	uInt64
nano2	uInt
lostResponses	uInt16
allowedLostResponses	uInt16

GPTP.asCapable.ClockMismatch

Description

This condition occurrs when the received Clock ID in the received pdelay Response message (rcvdPdelayRespPtr->requestingPortIdentity.clockIdentity) is not equal to the switches Clock ID (thisClock). The MDPdelayReq state machine transitions from the WAITING_FOR_PDELAY_RESP to the RESET state as described in figure 11-8 of the IEEE 802.1AS-2001 document. Note - this message is only recorded when the number of lost Responses is greater or equal to allowed lost responses as defined in the RESET state.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

asCapable is `%asCapable%` => 0, port = `%port%`: rcvdPdelayRespPtr->requestingPortIdentity.clockId (`%rcvClock%`) != thisClock (`%thisClock%`): lostResponses = `%lostResponses%`: allowedLostResponses = `%allowedLostResponses%`: transition WAITING_FOR_PDELAY_RESP to RESET state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort
rcvClock	String
thisClock	String
lostResponses	uInt16
allowedLostResponses	uInt16

GPTP.asCapable.PortMismatch

Description

This condition occurred when the port in received pdelay response message does not match the switches port (rcvdPdelayRespPtr->requestingPortIdentity.portNumber != thisPort). The port is set to not asCapable. The MDPdelayReq state machine transitions from the WAITING_FOR_PDELAY_RESP to the RESET state as described in figure 11-8

of the IEEE 802.1AS-2001 document. Note - this message is only recorded when the number of lost Responses is greater or equal to allowed lost responses as defined in the RESET state.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

asCapable is `%asCapable%` => 0, port = `%port%`: rcvdPdelayRespPtr->requestingPortIdentity.portNumber (`%rcvPort%`) != thisPort (`%thisPort%`): lostResponses = `%lostResponses%`: allowedLostResponses = `%allowedLostResponses%`: transition from WAITING_FOR_PDELAY_RESP to RESET state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort
rcvPort	uInt
thisPort	uInt
lostResponses	uInt16
allowedLostResponses	uInt16

GPTP.asCapable.SeqIdMismatch

Description

This condition occurs when the Sequence Id in the received pdelay Response message does not match the transmitted Sequence Id (rcvdPdelayRespPtr->SequenceId != txPdelayReqPtr->sequenceId). The MDPdelayReq state machine transitions from the WAITING_FOR_PDELAY_RESP to the RESET state as described in figure 11-8 of the IEEE 802.1AS-2001 document. Note - this message is only recorded when the number of lost Responses is greater or equal to allowed lost responses as defined in the RESET state.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

asCapable is %asCapable% => 0, port = %port%: rcvdPdelayRespPtr->sequenceId (%rcvSeqId%) != txPdelayReqPtr->sequenceId (%txSeqId%): lostResponses = %lostResponses%: allowedLostResponses = %allowedLostResponses%: transition from WAITING_FOR_PDELAY_RESP to RESET state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort
rcvSeqId	uInt
txSeqId	uInt
lostResponses	uInt16
allowedLostResponses	uInt16

GPTP.asCapable.SeqIdMatch

Description

This condiitions occurs when sequence Id in the received pdelay response essage matches the transmitted Sequence Id (rcvdPdelayRespPtr->SequenceId == txPdelayReqPtr->sequenceId). The port is set to not asCapable. The MDPdelayReq state machine transitions from the WAITING_FOR_PDELAY_RESP_FOLLOW_UP to the RESET state as described in figure 11-8 of the IEEE 802.1AS-2001 document. Note - this message is only recorded when the number of lost Responses is greater or equal to allowed lost responses as defined in the RESET state.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

asCapable is %asCapable% => 0, port = %port%: rcvdPdelayRespPtr->sequenceId (%rcvSeqId%) == txPdelayReqPtr->sequenceId (%txSeqId%): lostResponses =

`%lostResponses%`: allowedLostResponses = `%allowedLostResponses%`: transition from WAITING_FOR_PDELAY_RESP_FOLLOW_UP to RESET state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort
rcvSeqId	uInt
txSeqId	uInt
lostResponses	uInt16
allowedLostResponses	uInt16

GPTP.asCapable.ClockMatch

Description

This condition occurs when clock ID of the received pdelay response message (rcvdPdelayRespPtr->sourcePortIdentity.clockIdentity) matches the switches clockId (thisClock). The MDPdelayReq state machine is currently in the WAITING_FOR_PDELAY_INTERVAL_TIMER and is described in figure 11-8 of the IEEE 802.1AS-2001 document.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

asCapable is `%asCapable%` => 0, port = `%port%`: rcvdPdelayRespPtr->sourcePortIdentity.clockIdentity (`%rcvClock%`) == thisClock (`%thisClock%`): WAITING_FOR_PDELAY_INTERVAL_TIMER state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort

Name	Type
rcvClock	String
thisClock	String

GPTP.asCapable.InvRateRatio

Description

The condition occurred where an Invalid neighbor Rate Ratio was detected. The neighborRateRatio is calculated in the WAITING_FOR_PDELAY_INTERVAL_TIMER state by calling computeNeighborPropDelay(). The MDPdelayReq state machine is currrently in the WAITING_FOR_PDELAY_INTERVAL_TIMER state. See figure 11-8 of the IEEE 802.1AS-2011 spec.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

asCapable is `%asCapable%` => 0, port = `%port%`: Invalid neighborRateRatio: WAITING_FOR_PDELAY_INTERVAL_TIMER state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort

GPTP.asCapable.NegPdlay

Description

The condition occurrs when a negative Pdelay was calculated. A bad measurement could be the cause. This condition should not persist. If 3 bad measurements are detected consecutively, then a bad value will be substitued and will cause the port to become not asCapable. The MDPdelayReq state machine is in the WAITING_FOR_PDELAY_INTERVAL_TIMER state.

Remedy

If the negative Pdelay measurements persists, then latency offset values configured on chip need to be re-evaluated. It could also be the connected device is sending invalid time stamps causing a negative pdelay value. If this condition persists, try using longer cables to see if the negative Pdelay measurements continue.

Severity

Warning

Message Text

Negative propagation delay measured on port = `%port%`, t41: sec=`%t41sec%` nano = `%t41nano%`, t32: sec=`%t32sec%` nano=`%t32nano%`, diff: ns = `%ddelay%` - In WAITING_FOR_PDELAY_RESP_INTERVAL_TIMER state.

Message Parameters

Name	Type
port	SlotPort
t41sec	sInt32
t41nano	sInt32
t32sec	sInt32
t32nano	sInt32
ddelay	sInt32

GPTP.asCapable.Reset

Description

The condition occurs when the MDPdelay state machine enters the RESET state. The port is no longer asCapable. see figure 11-8 of the IEEE 802.1AS-2001 document. Note - this message is only recorded when the number of lost Responses is greater or equal to allowed lost responses as defined in the RESET state.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

asCapable is %asCapable% => 0, port = %port% - PDELAY_REQ_STATE_RESET

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort

GPTP.asCapable.PdlayExcdFollowUp

Description

This condition occurs when the current time minus the pdelay Interval Timer is greater than or equal to the pdelay request Interval. The port is no longer asCapable. The MDPdelayReq state machine transitions from the WAITING_FOR_PDELAY_RESP_FOLLOW_UP to the RESET state as described in figure 11-8 of the IEEE 802.1AS-2001 document. Note - this message is only recorded when the number of lost Responses is greater or equal to allowed lost responses as defined in the RESET state.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Did not receive Pdelay Response Followup in time: asCapable is %asCapable%, port = %port%: currentTime - pdelayIntervalTimer (sec = %sec1% nano = %nano1%) >= pdelayReqInterval (sec = %sec2%, nano = %nano2%): lostResponses = %lostResponses%: allowedLostResponses = %allowedLostResponses%: Exiting WAITING_FOR_PDELAY_RESP_FOLLOW_UP to RESET state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort
sec1	uInt64

Name	Type
nano1	uInt
sec2	uInt16
nano2	uInt16
lostResponses	uInt16
allowedLostResponses	uInt16

GPTP.asCapable.PdlayExcdIntTmr

Description

This condition occurs when the neighbor Pdelay is greater than to the neighbor Pdelay threshold. The port is no longer asCapable. The MDPdelayReq state machine is in the WAITING_FOR_PDELAY_INTERVAL_TIMER state. See figure 11-8 of the IEEE 802.1AS-2001 document.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Measured Pdelay Exceeded the Pdelay Threshold: asCapable is `%asCapable%`, port = `%port%`: neighborPropDelay (sec = `%sec1%`, nano = `%nano1%`) > neighborPropDelayThreshIntTime (sec = `%sec2%`, nano = `%nano2%` - In WAITING_FOR_PDELAY_RESP_INTERVAL_TIMER state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort
sec1	uInt64
nano1	uInt
sec2	uInt64
nano2	uInt

GPTP.asCapable.asCapable

Description

This condition occurs when the port becomes asCapable. The MDPdelayReq state machine is in the WAITING_FOR_PDELAY_INTERVAL_TIMER state. See figure 11-8 of the IEEE 802.1AS-2001 document.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

asCapable is `%asCapable%` => 1, port = `%port%` : In WAITING_FOR_PDELAY_RESP_INTERVAL_TIMER state

Message Parameters

Name	Type
asCapable	uInt
port	SlotPort

GPTP.asCapable.PortNotAsCapable

Description

This event will occur when a GPTP port is not in asCapable state due to any of the below reasons: - MDPdelayReq state machine enters the INITIAL_SEND_PDELAY_REQ state. - Pdelay exceeds the time interval and the lost responses exceeds the limit. - Mismath in Clock ID of the received pdelay Response message. - Mismatch in the port number of the received pdelay response message. - Mismatch in the sequence Id of the pdelay Response message and the transmitted Sequence Id. - Invalid neighbor Rate Ratio. - MDPdelay state machine enters the RESET state. - Did not receive Pdelay Response Followup in time. - Measured Pdelay Exceeded the Pdelay Threshold.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Port `%port%` is set to not asCapable because `%reason%`.

Message Parameters

Name	Type
port	SlotPort
reason	String

GPTP.asCapable.PortNotAsCapableDetail

Description

This event will occur when a GPTP port is not in asCapable state and also provides some information along with the reason(which could be any of the below mentioned events) of the state change. - Pdelay exceeds the time interval and the lost responses exceeds the limit. - Mismath in Clock ID of the received pdelay Response message. - Mismatch in the port number of the received pdelay response message. - Mismatch in the sequence Id of the pdelay Response message and the transmitted Sequence Id. - MDPdelay state machine enters the RESET state. - Did not receive Pdelay Response Followup in time. - Measured Pdelay Exceeded the Pdelay Threshold.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Port `%port%` is set to not asCapable because `%reason%`.

Message Parameters

Name	Type
port	SlotPort
reason	Printf

GPTP.asCapable.PortAsCapableTrans

Description

This event will occur when there is a transition in the state of the GPTP port between asCapable and Not asCapable states, which could be due to any of the below reasons: - MDPdelayReq state machine enters the INITIAL_SEND_PDELAY_REQ state. - Pdelay exceeds the time interval and the lost responses exceeds the limit. - Mismath in Clock ID of the received pdelay Response message. - Mismatch in the port number of the received pdelay response message. - Mismatch in the sequence Id of the pdelay Response message and the transmitted Sequence Id. - Invalid neighbor Rate Ratio. - MDPdelay state machine enters the RESET state. - Did not receive Pdelay Response Followup in time. - Measured Pdelay Exceeded the Pdelay Threshold.

Remedy

No action required - Notification message only.

Severity

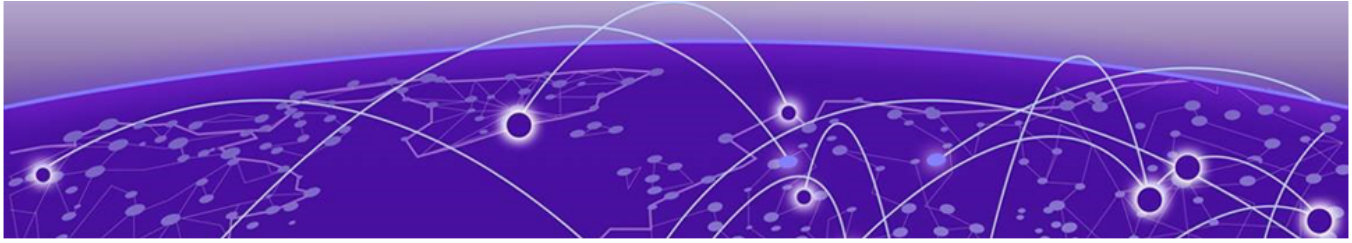
Notice

Message Text

Port `%port%` transitioned from `%oldState%` to `%newState%` `%reason%`.

Message Parameters

Name	Type
port	SlotPort
oldState	String
newState	String
reason	String



HAL Messages

HAL.Warning on page 1662

HAL.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

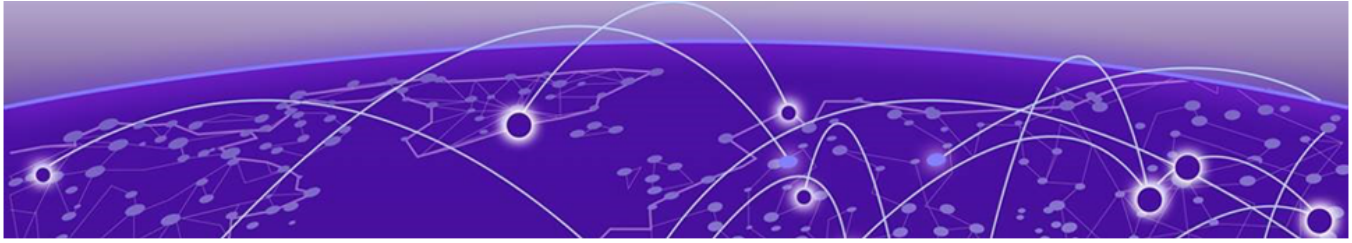
Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



HAL.BFD Messages

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HAL.BFD.DebugVerbose on page 1664
HAL.BFD.DebugData on page 1665
HAL.BFD.CreatFiltFail on page 1666
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HAL.BFD.CreatSessReqFail on page 1667
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HAL.BFD.InstlFiltFail on page 1671
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HAL.BFD.RecvTimeChgNtfy on page 1678
HAL.BFD.RecvEndptUpNtfy on page 1678
HAL.BFD.RecvFlagChgNtfy on page 1679
HAL.BFD.RecvSessErrNtfy on page 1680
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HAL.BFD.RecvStateChgNtfy on page 1681
HAL.BFD.BatchInfo on page 1682
HAL.BFD.RegEventClbkFail on page 1683
HAL.BFD.RecvSessDelReq on page 1683
HAL.BFD.RecvSessUpdtReq on page 1684
HAL.BFD.RecvSessCreatReq on page 1685
HAL.BFD.RecvSessStatsReq on page 1685
HAL.BFD.CreatEndptFail on page 1686
HAL.BFD.DumpSessInfo on page 1687
HAL.BFD.FndEgrPortFail on page 1688

HAL.BFD.UpdtEndptFail on page 1689
HAL.BFD.DelEndptFail on page 1690

HAL.BFD.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.BFD.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.CreatFiltFail

Description

A filter creation attempt has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Warning

Message Text

Filter creation failed on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.CreatSessReq

Description

This event occurs whenever BFD session create request is sent to HAL for a specific srcIP, dest IP, VR name and sessionID. vrName VR name srcIPaddr Source IP address dstIPaddr Dest IP address sessionID sessionID

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

BFD session create request sent for dest IP `%dstIPaddr%` srcIP `%srcIPaddr%` vrName `%vrName%` with sessionID `%sessionID%`

Message Parameters

Name	Type
srcIPaddr	String
dstIPaddr	String
vrName	String
sessionID	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.CreatSessReqFail

Description

This event occurs whenever BFD session create request failed for a specific srcIP,dest IP, vrName and sessionID in HAL.

Remedy

Session creation could fail in the Hardware if the MAC address of next hop is not resolved. Check show iparp if ipv4 bfd session or show neighbor-discovery for ipv6 session. Please contact tech support if sessions is not able create after multiple attempts. show tech, debug hal show platform bfd all, debug bfd show session, debug bfd show nexthop.

Severity

Warning

Message Text

BFD session create request for dest IP `%destIPaddr%` src IP `%srcIPaddr%` VRName `%vrName%` with `%sessionID%` failed.

Message Parameters

Name	Type
srcIPaddr	String
destIPaddr	String
vrName	String
sessionID	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.QualPktResFail

Description

An attempt to qualify the packet resolution for BFD has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Packet Resolution `%pktRes%` qualification failed on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
pktRes	uInt
slot	uInt
unit	uInt
rv	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.AllocMemFail

Description

A memory allocation required for BFD operation has failed. The BFD feature may have unexpected behavior.

Remedy

If the box has run out of memory due to features enabled by the user, turn off some features to free additional memory and try the BFD configuration again.

Severity

Error

Message Text

Memory allocation failed

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.FndAuthIndxFail

Description

This message indicates the hardware abstraction layer could not find the free authentication table index for the given simple password by th BFD application.

Remedy

Retrying the operation may remedy the symptom. Otherwise, this is an internal condition that requires engineering assistance. Please call technical support. debug hal show platform bfd all

Severity

Error

Message Text

Could not find free auth index for the given simple password `%passwd%` length `%len%`

Message Parameters

Name	Type
passwd	String
len	uInt8

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

This is a rare internal condition, restart process/reboot system may be required. If condition is not resolved by reboot system, please contact technical support with the following information: show tech.

Severity

Error

Message Text

Passing parmeters `%parmName%` is NULL.

Message Parameters

Name	Type
parmName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.AddFiltActFail

Description

An attempt to add the bfd packet mapping to cosq filter action has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Add filter action operation failed on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.InstlFiltFail

Description

An attempt to install bfd packet mapping to cosq filter has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Filter install failed on slot `%slot%`, unit `%unit%` return code `%rv%` error message `%errMsg%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt
errMsg	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.SetSimpPwdTblFail

Description

An attempt to program the simple password with the specified index has failed. The specified return code value is provided by the low level driver which has only internal significance

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech" - output of "debug hal show platform bfd all"

Severity

Error

Message Text

Setting given password %passwd% length %length% table with index %authIndex% failed error message %errMsg%

Message Parameters

Name	Type
authIndex	uInt32
passwd	String
length	uInt
errMsg	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.GetEndptTblFail

Description

Getting endpoint info for the specified index has failed. Either hardware is not responding or the specified index is not present in the hardware table. This error could happen if the endpoint software and hardware table goes out of sync.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech" - output of "debug hal show platform bfd all"

Severity

Warning

Message Text

Getting session info for %epIndex% from endpoint table failed on %unit% with error code %rv% error message %errMsg%

Message Parameters

Name	Type
unit	uInt32
epIndex	uInt16
rv	uInt16
errMsg	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvRmtDiagNtfy

Description

This event occurs when local session received the Diagnostic code changes from the remote endpoint.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received Remote diag for session `%sessionId%` from remote `%remoteId%` diag code `%diagcode%`

Message Parameters

Name	Type
sessionId	uInt32
remoteId	uInt32
diagcode	uInt32

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator

HAL.BFD.GetHwInfoFail

Description

No description is available.

Remedy

Retrying the operation may remedy the symptom. Otherwise, this is an internal condition that requires engineering assistance. Please call technical support. debug hal show platform bfd all

Severity

Error

Message Text

Getting BFD hardware info from slot `%slot%` unit `%unit%` returned error code `%rv%` error message `%errMsg%`

Message Parameters

Name	Type
slot	uInt32
unit	uInt
rv	uInt
errMsg	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvDscrmChgNtfy

Description

This event occurs when local session received the remote discriminator changes from the remote endpoint.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Recevied discriminator change for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt32
remoteId	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvAuthChgNtfy

Description

This event occurs when local session received the authentication changes from the remote endpoint.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received Authentication change for `%sessionId%` from `%remoteID%`

Message Parameters

Name	Type
sessionId	uInt32
remoteID	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvParmChgNtfy

Description

This event occurs when local session received the session parameter changes from the remote endpoint

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received Parameter change for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvTimeChgNtfy

Description

This event occurs when local session received the session state timer changes from the remote endpoint

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Recevied endpoint `%timeChg%` event for session `%sessionId%` remote `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt32
remoteId	uInt32
timeChg	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvEndptUpNtfy

Description

This event occurs when local session received the session state becomes up from the remote endpoint

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Recevied remote endpoint event for session `%sessionId%` remote `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt32
remoteId	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvFlagChgNtfy

Description

This event occurs when local session received the session flag change from the remote endpoint

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received enpoint flag changes for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt32
remoteId	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvSessErrNtfy

Description

This event occurs when session received error notification from the hardware for the specified local and remote session Id.

Remedy

No action required - Informational message only.

Severity

Warning

Message Text

Receieved session error event for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt32
remoteId	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvEndptNtfy

Description

This event occurs when session received notification from the hardware for the specified local and remote session Id.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Recevied endpoint event for `%sessionId%` from `%remoteId%`

Message Parameters

Name	Type
sessionId	uInt
remoteId	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvStateChgNtfy

Description

This event occurs when local session received the session state changes notification from the remote endpoint

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received state change for `%sessionId%` from `%remoteId%` local state `%localstate%` remotestate `%remotestate%`

Message Parameters

Name	Type
sessionId	uInt32
remoteId	uInt32

Name	Type
localstate	String
remotestate	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.BatchInfo

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RegEventClbkFail

Description

An attempt to register the callback function to receive the notification from the BCM unit is failed with this error message.

Remedy

Retrying the operation may remedy the symptom. Otherwise, this is an internal condition that requires engineering assistance. Please call technical support.

Severity

Error

Message Text

Register Event callback in unit `%unit%` slot `%slot%` failed with error code `%errorcode%` error message `%errmsg%`

Message Parameters

Name	Type
unit	uInt
slot	uInt32
errorcode	sInt
errmsg	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvSessDelReq

Description

This event occurs whenever HAL receives session delete request from BFD for a specific sessionID. SessionId zero indicates the all sessions.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received session deletion request for session Id `%sessionId%` (session Id 0 - all sessions)

Message Parameters

Name	Type
sessionId	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvSessUpdtReq

Description

This event occurs whenever HAL receives session update request from BFD for a specific sessionID.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received session update request for sessionId `%sessionId%`

Message Parameters

Name	Type
sessionId	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvSessCreatReq

Description

This event occurs whenever HAL receives session create request from BFD for a specific sessionID.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received session create request for sessionId `%sessionId%`

Message Parameters

Name	Type
sessionId	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.RecvSessStatsReq

Description

This event occurs whenever HAL receives session stats request from BFD for a specific sessionID.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Recevied session get stats request for session Id `%sessionId%` (session Id 0 - all sessions)

Message Parameters

Name	Type
sessionId	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.CreatEndptFail

Description

Getting endpoint info for the specified session Id has failed with the error message. Session creation might fail If the next hop mac is not programmed in the hardware. BFD user space process will make multiple attempts to create the next hop mac in then it invokes the session creation.

Remedy

Contact technical support with the following information if the multiple attempts failed to create the sessions. - output of "show tech" - output of "show iparp" - output of "show neighbor-discovery" - output of "debug hal show platform bfd all"

Severity

Warning

Message Text

Create endpoint failed on slot `%slot%` unit `%unit%` for sessionId `%sessionId%` with returned code `%rv%` message `%errmsg%`

Message Parameters

Name	Type
unit	uInt
slot	uInt
rv	sInt
errmsg	String
sessionId	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.DumpSessInfo

Description

Dumping session information.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Dump Session Info ReqType `%type%` Src `%srcAddr%` Dest `%destAddr%` SessionId `%sessionId%` VR `%vr%` EgrPort `%gport%` Tx `%txIntv%` Rx `%rxIntv%` Multi `%multi%` Authtype `%authType%` AuthLen `%authLen%` Diag `%localDiag%` HostCreDel `%hostDelFlag%`

Message Parameters

Name	Type
type	String
srcAddr	IPaddrN
destAddr	IPaddrN
sessionId	uInt32

Name	Type
vr	uInt
gport	SlotPort
txIntv	uInt32
rxIntv	uInt32
multi	uInt
authType	uInt
authLen	uInt
localDiag	uInt
hostDelFlag	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.FndEgrPortFail

Description

Selected egress port to program the BFD in the hardware is not found.

Remedy

Check egress ports is configured in BFD "show bfd" . If the egress port already configured but still error occurs then unconfigure the loop back port then reconfigure. If the problem still exist then contact technical support with the following logs: -debg hal show platfrom bfd all -show bfd

Severity

Warning

Message Text

Egress port not found for the creation of session Id `%sessionId%`

Message Parameters

Name	Type
sessionId	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.UpdtEndptFail

Description

Session update might fail If the next hop mac is not programmed in the hardware. BFD user space process will make multiple attempts to resolve the next hop mac in then it invokes the session update.

Remedy

Contact technical support with the following information if the multiple attempts failed to update the sessions. - output of "show tech" - output of "show iparp" - output of "show neighbor-discovery" - output of "debug hal show platform bfd all"

Severity

Warning

Message Text

Update endpoint failed on slot `%slot%` unit `%unit%` for sessionId `%sessionId%` with returned code `%rv%` message `%errmsg%`

Message Parameters

Name	Type
unit	uInt
slot	uInt
rv	sInt
errmsg	String
sessionId	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.BFD.DelEndptFail

Description

Deleting endpoint info for the specified session Id has failed with the error message.

Remedy

Contact technical support with the following information if the multiple attempts failed to create the sessions. - output of "show tech" - output of "debug hal show platform bfd all"

Severity

Warning

Message Text

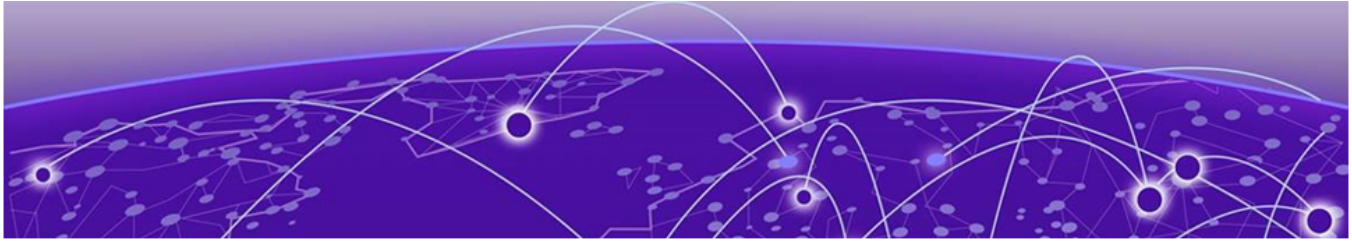
Delete endpoint failed on slot `%slot%` unit `%unit%` for sessionId `%sessionId%` with returned code `%rv%` message `%errmsg%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	sInt
errmsg	String
sessionId	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



HAL.BOOTP Messages

HAL.BOOTP.DebugVerbose on page 1691
HAL.BOOTP.PktRx on page 1691
HAL.BOOTP.PktTx on page 1692
HAL.BOOTP.Reply on page 1693

HAL.BOOTP.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.BOOTP.PktRx

Description

This message is logged every time a BOOTP packet is received on a port.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Received a BOOTP packet.

Message Parameters

Name	Type
buffer	Buf-ptr
size	Buf-len

HAL.BOOTP.PktTx

Description

This message is logged every time a BOOTP packet is transmitted on a port.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Sent a BOOTP reply packet.

Message Parameters

Name	Type
buffer	Buf-ptr
size	Buf-len

HAL.BOOTP.Reply

Description

This message is logged every time a BOOTP reply is transmitted for a Reach device.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

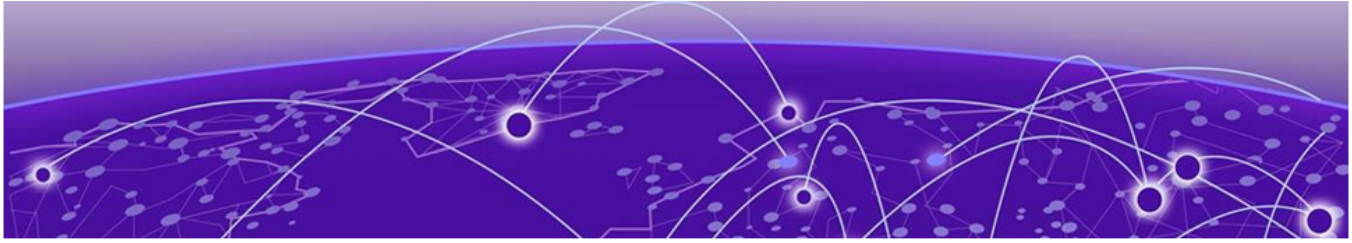
Debug-Verbose

Message Text

BOOTP reply for `%port%`, mac `%mac%`: address `%ipaddr%`, file \"`%name%`\".

Message Parameters

Name	Type
port	SlotPort
mac	MAC
ipaddr	IPN
name	String



HAL.Card Messages

HAL.Card.Critical on page 1695
HAL.Card.Error on page 1695
HAL.Card.Warning on page 1696
HAL.Card.Notice on page 1696
HAL.Card.Info on page 1697
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HAL.Card.MasterVersionFailed on page 1700
HAL.Card.SetTimeFailed on page 1701
HAL.Card.PowerStateError on page 1701
HAL.Card.EnblStorAndFwdMode on page 1702
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HAL.Card.ExtTblClbrtDataInv on page 1704
HAL.Card.RcmndInstlFWUpdt on page 1705
HAL.Card.DtectHWVerUnsuprtFWUpdt on page 1705
HAL.Card.PortPartMisMatch on page 1706
HAL.Card.IOCardWrongForMode on page 1707
HAL.Card.FMWrongForMode on page 1708
HAL.Card.NoFM on page 1709
HAL.Card.IntTblMisMatch on page 1709
HAL.Card.DiagXmodMiss on page 1710
HAL.Card.HwTblUtilDebug on page 1711
HAL.Card.HwTblThrshldExcd on page 1711
HAL.Card.L2L3HwTblThrshldExcd on page 1712
HAL.Card.ACLSliceTblFull on page 1712
HAL.Card.ACLSliceTblUtilBelow on page 1713
HAL.Card.ACLEntryTblUtilAbove on page 1714

HAL.Card.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Card.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Card.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Card.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Card.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Card.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Card.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Card.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Card.VersionWarning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the condition may be resolved by retrying the operation when the resource becomes available.

Severity

Warning

Message Text

A request to get the version code of the IO card in slot `%slotNum%` with assigned ip address of `%slotIp%` failed - returning a completion code of `%return_code%` .

Message Parameters

Name	Type
return_code	sInt
slotNum	uInt32
slotIp	srcIPaddress

HAL.Card.MasterVersionFailed

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the condition may be resolved by retrying the operation when the resource becomes available.

Severity

Warning

Message Text

A request to get the version code of the management module in slot `%slotNum%` with assigned ip address of `%slotIp%` failed - returning a completion code of `%return_code%` .

Message Parameters

Name	Type
return_code	sInt
slotNum	uInt32
slotIp	srcIPaddress

HAL.Card.SetTimeFailed

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the condition may be resolved by retrying the operation when the resource becomes available.

Severity

Warning

Message Text

A request to set the time for the IO card in slot `%slotNum%` with assigned ip address of `%slotIp%` failed - returning a completion code of `%return_code%` .

Message Parameters

Name	Type
return_code	sInt
slotNum	uInt32
slotIp	srcIPaddress

HAL.Card.PowerStateError

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

A request to power `%stateChange%` slot `%slotNum%` failed - returning a completion code of `%return_code%` .

Message Parameters

Name	Type
return_code	sInt
slotNum	uInt32
stateChange	String

HAL.Card.EnblStorAndFwdMode

Description

Store-and-forward mode (default) is activated on the specified slot. Packet transmission will not begin until packets are received in full.

Remedy

This is just a debug message with no remedy.

Severity

Debug-Summary

Message Text

Store-and-forward mode activated for slot `%slot%`

Message Parameters

Name	Type
slot	Slot

HAL.Card.EnblCutThruMode

Description

Cut-through mode is activated on the specified slot. Packet transmission may begin prior to packets being received in full to reduce forwarding latency.

Remedy

This is just a debug message with no remedy.

Severity

Debug-Summary

Message Text

Cut-through mode activated for slot `%slot%`

Message Parameters

Name	Type
slot	Slot

HAL.Card.ExtTblMisMatch

Description

The configured external lookup tables setting is not applied. The switch is operating with the current external lookup tables setting as reported in show forwarding configuration. This will occur if the external lookup tables setting was modified and the switch was rebooted without saving the configuration or a new configuration file was loaded with a different external lookup tables setting.

Remedy

Reboot the switch to re-apply the configured setting which will become the current setting. Or modify the setting, save and reboot to apply a new setting.

Severity

Warning

Message Text

The external lookup tables current setting for the `%slotName%` does not match the configured setting. For the configured setting to take effect, save configuration and reboot the `%slotName%`.

Message Parameters

Name	Type
slotName	String

HAL.Card.ExtTblClbrtDataInv

Description

The external-table hardware interface calibration data is invalid or missing for this Summit switch or BD8K interface card. This hardware interface is calibrated when the switch or card is manufactured. Without this data, the external table cannot be used reliably for L2, L3 or ACL lookups.

Remedy

Re-calibrate the switch or card from EXOS. This can be done with the following command: debug hal run external-table calibration. This command will cause a re-calibration of the external-table hardware interface for the switch or card. This process will take 15-30 minutes and will involve a reboot. Please do not disconnect power during this process.

Severity

Error

Message Text

`%slotName%` has invalid or missing external-table calibration data.

Message Parameters

Name	Type
slotName	String

HAL.Card.RcmndInstlFWUpdt

Description

Recommend Installing FirmWare Update: Every EXOS release comes with updated firmware that is well tested, however as the firmware update needs to be done manually in-field scenarios may come up where EXOS may be latest, but the firmware may be old.

Remedy

Running a firmware upgrade with the CLI command 'install firmware' should resolve the situation.

Severity

Notice

Message Text

Version mismatch for `%blockcode%` on `%slotname%` , currently(`%current_ver%`) but expected(`%expected_ver%`)

Message Parameters

Name	Type
blockcode	String
slotname	String
current_ver	String
expected_ver	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Card.DtectHWVerUnsuprtFWUpdt

Description

Detected Hardware Version Unsupported for Firmware Update: EXOS, either automatically or manually will check the current system if its running on updated firmware. If for some reason it is unable to do so, we need to log that the firmware check itself failed. This can only happen if new hardware (IOM/XFM ...etc) is being tested and EXOS is unable to identify the hardware.

Remedy

As new hardware has been introduced, its details, such as 800K number, card-type ... etc will need to be added to the "firmware check" table so EXOS will detect it properly in future scans. Please consult the relevent EXOS-firmware engineer to make the needed changes. If this event is seen in-field, it means that the client is running OUTDATED exos and is HIGHLY recommened to upgrade the system.

Severity

Error

Message Text

Did NOT recognize device `%blockcode%` on `%slotname%`!! 800K_number=|`%number%`| version=|`%blockversion%`| cardtype=|`%cardtype%`|

Message Parameters

Name	Type
blockcode	String
slotname	String
number	String
blockversion	String
cardtype	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Card.PortPartMisMatch

Description

The configured port partitioning does not match the current port partitioning applied when the switch was initialized. The switch is operating with the current port partitioning setting as reported in show ports information detail. This will occur if the port configuration for a slot was modified when the switch was not present in the stack, a new switch replaced the previously configured one, or a new configuration file was loaded with a different configured port partitioning for the slot. The system has automatically stored the configured port partitioning in the node but the switch needs to be rebooted for it to take effect.

Remedy

Reboot the switch to apply the configured setting which will then become the current setting. Or modify the setting, save and reboot to apply a new setting.

Severity

Warning

Message Text

The current port partitioning for `%slotName%` does not match the configured setting.

Message Parameters

Name	Type
slotName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Card.IOCardWrongForMode

Description

The type of I/O card in the specified I/O slot cannot be used with the named Fabric Mode.

Remedy

Either remove the I/O card from the switch, disable it, or upgrade the fabric modules.

Severity

Warning

Message Text

The `%cardTypeStr%` card in `%slotName%` is not usable in Fabric Mode `%fabModeStr%`. Please disable the slot, remove the `%cardTypeStr%` card, or upgrade the fabric modules.

Message Parameters

Name	Type
cardTypeStr	String
slotName	String
fabModeStr	String

Applicable Platforms

- BlackDiamond X8 series switches

HAL.Card.FMWrongForMode

Description

The BDX series switch operates with only one type of fabric module at a time. This message occurred because there were at least two types of fabric modules inserted and enabled. The first fabric module to be powered on determines the fabric mode. Afterwards, attempts to power on fabric modules of a different type result in failure to bring up those fabric modules.

Remedy

Examine the output of the "show slot" command to see your available fabric modules. Decide which type of fabric module you want to use. Then either disable all fabric slots that contain an undesired fabric module, or physically remove the undesired fabric modules. The system will then recover using the desired fabric mode.

Severity

Warning

Message Text

The `%cardTypeStr%` card in `%slotName%` is not compatible with the current Fabric Mode `%fabModeStr%`. Please disable or remove all fabric modules that are not compatible with the desired fabric mode.

Message Parameters

Name	Type
cardTypeStr	String
slotName	String
fabModeStr	String

Applicable Platforms

- BlackDiamond X8 series switches

HAL.Card.NoFM

Description

Either there are no Fabric Modules installed in the switch, or all installed Fabric Modules are present in disabled slots.

Remedy

Either enable fabric slots that contain Fabric Modules and are disabled, or install Fabric Modules of like type.

Severity

Error

Message Text

No Fabric Modules are available. All I/O cards will remain in a Failed state until fabric modules are installed and enabled.

Applicable Platforms

- BlackDiamond X8 series switches

HAL.Card.IntTblMisMatch

Description

The configured internal lookup tables setting is not applied. The switch is operating with the current internal lookup tables setting as reported in show forwarding configuration. This will occur if the internal lookup tables setting was modified and the switch was rebooted without saving the configuration or a new configuration file was loaded with a different internal lookup tables setting.

Remedy

Reboot the switch to re-apply the configured setting which will become the current setting. Or modify the setting, save and reboot to apply a new setting.

Severity

Warning

Message Text

The internal lookup tables current setting for the `%slotName%` does not match the configured setting. For the configured setting to take effect, save configuration and reboot the `%slotName%`.

Message Parameters

Name	Type
slotName	String

HAL.Card.DiagXmodMiss

Description

This event message recommends that the diagnostics xmod be used to install the diagnostics image so that switch diagnostics can be run in the future. As of 15.6.1, the diagnostics image is packaged as an xmod that can be installed with the base xos package in order to install or update the diagnostics image.

Remedy

No action required -- Informational message only.

Severity

Info

Message Text

The diagnostics image is not installed on `%switchOrSlot%`. Please download and install the diagnostics xmod in order to run diagnostics.

Message Parameters

Name	Type
switchOrSlot	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Card.HwTblUtilDebug

Description

This is for debugging collection of hardware table utilization statistics for sFlow.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.Card.HwTblThrshldExcd

Description

The ASIC hardware table utilization has exceeded 90 percent for the above resource. This may cause switch performance degradation.

Remedy

Resources may be freed by unconfiguring certain features, depending on the affected hardware table. Route compression can be used to reduce Route table usage.

Severity

Warning

Message Text

The utilization of `%tableName%` hardware table on slot `%slot%` has exceeded 90%%

Message Parameters

Name	Type
tableName	String
slot	Slot

HAL.Card.L2L3HwTblThrshldExcd

Description

The ASIC hardware table utilization has exceeded 90 percent for the above resource. This may cause switch performance degradation.

Remedy

Resources may be freed by unconfiguring certain features, depending on the affected hardware table. Hardware upgrade or network segregation may be needed. Disabling IGMP snooping on VLANs where it is not required, will reduce multicast entries in the L3 table.

Severity

Notice

Message Text

The utilization of `%tableName%` hardware table on slot `%slot%` has exceeded 90%%

Message Parameters

Name	Type
tableName	String
slot	Slot

HAL.Card.ACLSliceTblFull

Description

The ASIC ACL Slice hardware table utilization has reached 100 percent. This may cause ACL installation failures for features that leverage ACL hardware.

Remedy

ACL Slice table usage can be reduced by unconfiguring some policy and ingress/egress ACL filters.

Severity

Warning

Message Text

The utilization of `%tableName%` hardware table on slot `%slot%` has reached 100%%. (Logged at most once per hour.)

Message Parameters

Name	Type
tableName	String
slot	Slot

HAL.Card.ACLSliceTblUtilBelow

Description

The ASIC ACL Slice hardware table utilization has decreased below 80 percent.

Remedy

No action required - Informational message only

Severity

Notice

Message Text

The utilization of `%tableName%` hardware table on slot `%slot%` has decreased below `%percent%`%%. (Logged at most once per hour.)

Message Parameters

Name	Type
tableName	String
slot	Slot
percent	uInt

HAL.Card.ACLEntryTblUtilAbove

Description

The ASIC ACL hardware table utilization has exceeded 90 percent for the above resource. This may cause ACL installation failures for features that leverage ACL hardware.

Remedy

ACL table usage can be reduced by unconfiguring some ingress/egress ACL filters.

Severity

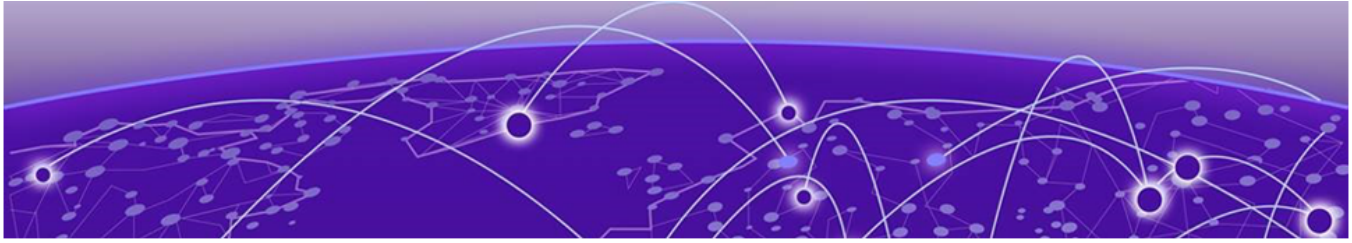
Notice

Message Text

The utilization of `%tableName%` hardware table on slot `%slot%` has exceeded `%percent%` %%. (Logged at most once per hour.)

Message Parameters

Name	Type
tableName	String
slot	Slot
percent	uInt



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HAL.Conduit.InsCtrlBlkFail

Description

A failure occurred when a system component attempted to add a conduit event resource to an internal message database. The sending internal application is notified. It may retry the request after waiting for the resource shortage to clear up.

Remedy

The system is low on memory resources. The configuration should be reduced in scale or complexity in order for the system to continue operating correctly.

Severity

Error

Message Text

A request to insert event information to a message queue for slots `%slotInfo%` and pipe ID `%pipeId%` and conduit ID `%conduitNum%` failed.

Message Parameters

Name	Type
slotInfo	String
pipeId	String
conduitNum	uInt

HAL.Conduit.RemCtrlBlkFail

Description

An attempt to remove the resource for a conduit event failed. The resource was not found in the database. The system will continue managing and processing resources for other events.

Remedy

This is possibly the result of internal data corruption or a software programming error. Report the problem to your switch support contact.

Severity

Error

Message Text

An attempt to remove resouces associated with a conduit message for slot `%slotId%` conduit type `%conduitType%` failed - resouces could not be found.

Message Parameters

Name	Type
slotId	uInt
conduitType	String

HAL.Conduit.MsgSizInv

Description

A problem has been detected which is interfering with the normal operation of the system. An invalid event message size has been detected during the conduit message verification process. The sending application is informed of the error - it may attempt the transmission again after some corrective action.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

A conduit event message size of `%size%` is invalid - conduit type `%conduitType%` and conduit ID `%conduitId%` .

Message Parameters

Name	Type
size	uInt
conduitType	uInt
conduitId	uInt

HAL.Conduit.AllocMsgCtrlBlkFail

Description

An attempt to allocate resouces to manage the processing of a reply to a transmitted conduit message failed. This may be the result of a network event that is affecting the system CPU utilization.

Remedy

The system is low on memory resources. The configuration should be reduced in scale or complexity in order for the system to continue operating correctly.

Severity

Error

Message Text

An attempt to allocate callback resources associated with a conduit message for slot `%slotNum%`, conduit type `%conduitType%`, pipe `%pipe%`, and conduit # `%conduitNum%` failed.

Message Parameters

Name	Type
slotNum	uInt
conduitType	String
pipe	String
conduitNum	uInt

HAL.Conduit.SendMsgFail

Description

An attempt to send a conduit event message to all slots failed. The underlying system socket has failed and is closed as part of the recovery.

Remedy

Switch will restart the IO slot that caused this error. If the slot is not restarted, disable the slot and enable it again.

Severity

Warning

Message Text

A conduit event transmission failed for slot `%slotNum%`, conduit type `%conduitType%`, file descriptor `%fd%`, event flags `%evntFlags%` and event seq. # `%seqNo%`.

Message Parameters

Name	Type
slotNum	uInt
conduitType	String
fd	uInt
evntFlags	uInt8
seqNo	uInt16

HAL.Conduit.SendStateFail

Description

The system is not functioning as expected. A maximum number of events is currently pending. The system cannot send any more. This almost certainly indicates a IO slot is not responding to the requests sent by Management module.

Remedy

This is possibly the result of some software/hardware malfunction at the IO. Restart the IO module by disabling followed by enabling the slot. Additionally, Report the problem to your switch support contact.

Severity

Error

Message Text

A bad conduit send state detected while processing a message for slot `%slotNum%`, event size `%evntSize%`, event group seq. # `%grpSeqNo%` and event seq. # `%seqNo%`.

Message Parameters

Name	Type
slotNum	uInt
grpSeqNo	uInt16
evntSize	uInt16
seqNo	uInt16

HAL.Conduit.RecvMsgFail

Description

The component receiving responses for the sent conduit events for other internal components failed. The error code in the log message should provide more details about the type of failure. Following are the some of the reasons for failure. 1. IO Componenet closing the connection due to non availability of system resource. 2. Crash/Failure at the IO. 3. Periodic keepalive messages not received at IO.

Remedy

This is possibly the result of some malfunction at the IO. Restart the IO module by disabling followed by enabling the slot. Or Report the problem to your switch support contact.

Severity

Warning

Message Text

A failure occurred while receiving a response to a conduit send message for slot `%slotNum%`, error code `%rc%`, conduit type `%cndtType%`, and file descriptor `%fileDescr%`.

Message Parameters

Name	Type
slotNum	uInt
cndtType	String
fileDescr	sInt
rc	sInt

HAL.Conduit.AllocMsgCtrlFail

Description

A conduit event message component failed to allocate a needed resource to manage the transmission and response for an internal switch message. The system is not functioning as expected.

Remedy

This is possibly the result of memory leak at the Management module. Report the problem to your switch support contact.

Severity

Error

Message Text

A request to allocate conduit add event information failed for slot `%slotNo%`, conduit type `%cndtType%`, conduit ID # `%conduitIdNo%`, and event seq. # `%seqNo%`.

Message Parameters

Name	Type
slotNo	uInt
cndtType	String
conduitIdNo	uInt16
seqNo	uInt16

HAL.Conduit.OpenPipeFail

Description

A create pipe request failure can be a result of the process having too many open files, or the failure could be due to the system having too many open files.

Remedy

No remedy is available.

Severity

Error

Message Text

A request to create an intra-process communication conduit failed with error code of `%retcode%`.

Message Parameters

Name	Type
retcode	sInt

HAL.Conduit.WkupThreadFail

Description

An attempt to wake up the main HAL thread by writing into an operating system pipe failed. Lookup the errno definition for a more specific cause.

Remedy

Restart the switch, or run MM failover. Report the problem to your switch support contact.

Severity

Error

Message Text

An attempt to wake-up a process thread failed because of a system write error - errno # `%errnoNum%`(`%errnoStr%`) , return code `%retcode%` and file descriptor `%pipeFD%`.

Message Parameters

Name	Type
retcode	sInt
errnoNum	sInt
errnoStr	String
pipeFD	uInt

HAL.Conduit.SetSockVRIdFail

Description

A component on the management module failed to set the backplane virtual router ID (VRID) on an IP connection socket during I/O blade initialization. Look up the errno definition for a more specific cause.

Remedy

Restart the switch or run MM failover, and report the problem to your switch support contact.

Severity

Error

Message Text

An attempt to set vrid `%vridNo%` on an IP socket with file descriptor `%sockfd%` failed retuning errno `%errnoNum%`(`%errnoStr%`) for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
errnoNum	sInt
errnoStr	String
vridNo	uInt

HAL.Conduit.SetSockRcvBufFail

Description

A component on the management module failed to setsockopt() the receive buffer size (SO_RCVBUF) on an IP connection socket during I/O blade initialization. Look up the errno definition for a more specific cause.

Remedy

Disable and enable the slot. Report the problem to the switch support contact.

Severity

Error

Message Text

An attempt to set the receive buffer size of `%rcvSize%` on an IP socket with file descriptor `%sockfd%` failed retuning errno `%errnoNum%`(`%errnoStr%`) for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
errnoNum	uInt
errnoStr	String
rcvSize	uInt

HAL.Conduit.SetSockNoDlay

Description

A component on the management module failed to setsockopt() the TCP send without delay (TCP_NODELAY) option on an IP connection socket during I/O blade initialization. Lookup the errno definition for a more specific cause.

Remedy

Disable and enable the slot. If the problem persists, report the problem to the switch support contact.

Severity

Error

Message Text

An attempt to set the send-with-no-delay option (`%noDelayVal%`)on an IP socket with file descriptor `%sockfd%` failed retuning errno `%errnoNum%`(`%errnoStr%`) for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
errnoNum	uInt
errnoStr	String
noDelayVal	uInt

HAL.Conduit.OpenSockFail

Description

A component on the management module failed to open an IP connection socket during I/O blade initialization. Look up the errno definition for a more specific cause.

Remedy

Initialization of the I/O blade will fail. Disable and enable the slot. Report the problem to the switch support contact.

Severity

Error

Message Text

An attempt to open on an IP socket failed retuning errno `%errnoNum%`(`%errnoStr%`) for slot `%slotNo%` and conduit Type `%cndtType%`.

Message Parameters

Name	Type
errnoNum	uInt
errnoStr	String
slotNo	uInt
cndtType	String

HAL.Conduit.AllocMsgFail

Description

The management module failed to allocate a resource to send a unicast conduit message to an I/O blade.

Remedy

This is possibly the result of memory leak at the Management module. Report the problem to your switch support contact.

Severity

Error

Message Text

A request to allocate resource for a unicast conduit message failed for slot `%slotNum%`, conduit type `%cndtType%`, event size `%evntSize%`, event group seq. # `%grpSeqNo%` and event seq. # `%seqNo%`.

Message Parameters

Name	Type
slotNum	uInt
cndtType	String

Name	Type
evntSize	uInt16
seqNo	uInt16
grpSeqNo	uInt16

HAL.Conduit.GetSockFlagFail

Description

A component on the management module failed to get the flags for a file descriptor during I/O blade initialization. Look up the errno definition for a more specific cause.

Remedy

Restart the IO module by disabling and enabling the slot. Or Report the problem to your switch support contact.

Severity

Error

Message Text

An attempt to get the flags for file descriptor `%sockfd%` failed retuning errno `%errnoNum%`(`%errnoStr%`) for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
errnoNum	sInt
errnoStr	String

HAL.Conduit.SetNonBlkFlagFail

Description

A component on the management module failed to set the non blocking flag (O_NONBLOCK) option for an IP connection socket during I/O blade initialization. Look up the errno definition for a more specific cause.

Remedy

Restart the IO module by disabling followed by enabling the slot. Or Report the problem to your switch support contact.

Severity

Error

Message Text

An attempt to set the non-blocking flag for file descriptor `%sockfd%` failed retuning errno `%errnoNum%`(`%errnoStr%`) for slot `%slotNo%` and conduit Type `%conduitType%`, and flags `%setflags%` .

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
errnoNum	sInt
errnoStr	String
setflags	uInt

HAL.Conduit.SetKeepalive

Description

A component received a failing return code when it attempted to use setsockopt() to enable and set options for the TCP keepAlive function. Look up the errno definition for a more specific cause.

Remedy

I/O blade will remain functional, with default settings. With default settings, I/O blade will not be reset even if I/O blade does not send Keepalive to Management Module or vice versa. Report the problem to the switch support contact.

Severity

Error

Message Text

An attempt to set the TCP keepalive for `%optStr%` on an IP socket with file descriptor `%sockfd%` failed retuning errno `%errnoNum%`(`%errnoStr%`) for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
errnoNum	uInt
errnoStr	String
optStr	String

HAL.Conduit.CnctSockFail

Description

A component received a failing return code when it attempted to establish a TCP connection to an I/O blade. Look up the errno definition for a more specific cause.

Remedy

Disable and enable the slot. If the problem persists, report to Extreme switch support contact.

Severity

Error

Message Text

A connect() request failed for ip `%slotIp%` and file descriptor `%sockfd%` retuning errno `%errnoNum%`(`%errnoStr%`) for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt

Name	Type
errnoNum	uInt
errnoStr	String
slotIp	srcIPaddress

HAL.Conduit.SlctSockFail

Description

A component received a failing return code from a select() invocation. Look up the errno definition for a more specific cause. The internal application may retry the request if the condition can be corrected.

Remedy

Restart the IO module by disabling followed by enabling the slot. Or Report the problem to your switch support contact.

Severity

Error

Message Text

A select() failed for file descriptor `%sockfd%` retuning errno `%errnoNum%`(`%errnoStr%`) for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
errnoNum	uInt
errnoStr	String

HAL.Conduit.CnctRetryExcd

Description

A component on the management module exceeded the maximum number of retries allowed for a socket to establish and connect.

Remedy

Disable and Enable the slot. If the problem persists, report to Extreme Switch support contact.

Severity

Error

Message Text

The maximum connect retries of `%retryCnt%` was exhausted for socket `%sockfd%` on slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
retryCnt	uInt

HAL.Conduit.ConnDeadSlot

Description

A component on the management module has abandoned an attempt to establish an IP connection because the targeted slot is dead or not present.

Remedy

Remove and ReInsert the I/O blade. If the problem persists, report to Extreme Switch support contact.

Severity

Error

Message Text

An attempt to make an IP connection, from slot `%slotNo%` and conduit type `%conduitType%`, is abandon because the slot is dead.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String

HAL.Conduit.GetSockOptFail

Description

A component using the getsockopt() function, with the SO_ERROR option, to check the health of a socket connection received a failing return code from the invocation. Look up the errno definition for a more specific cause.

Remedy

Remove and ReInsert the I/O blade. If the problem persists, report to Extreme Switch support contact.

Severity

Error

Message Text

A getsockopt() request discovered an error on a connection using file descriptor `%sockfd%` retuning errno `%errnoNum%`(`%errnoStr%`) for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
errnoNum	uInt
errnoStr	String

HAL.Conduit.SockNotRdy

Description

This indicates that the socket component at IO is not ready to process the connection request from Management Module. Look up the errno definition for a more specific cause. The internal application will retry the request.

Remedy

Restart the IO module by disabling followed by enabling the slot. Or Report the problem to your switch support contact.

Severity

Warning

Message Text

A connection using file descriptor `%sockfd%`, port `%port%`, and retries `%retryNum%` is not ready - returning errno `%errnoStr%` for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
errnoStr	String
port	uInt
retryNum	uInt

HAL.Conduit.CnctSockExist

Description

A component received a failing return code from a connect() invocation indicating that the socket connection already established. Look up the errno definition for a more specific cause.

Remedy

Restart the IO module by disabling followed by enabling the slot. Or Report the problem to your switch support contact.

Severity

Error

Message Text

A connect() request failed because the socket connection already exists - retuning errno `%errnoStr%` for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
errnoStr	String

HAL.Conduit.SockFlagRstor

Description

A component using the fcntl() function failed while attempting to restore the socket option flags. Look up the errno definition for a more specific cause.

Remedy

Restart the IO module by disabling followed by enabling the slot. Or Report the problem to your switch support contact.

Severity

Error

Message Text

An attempt to restore the socket flags using fcntl() failed for file descriptor `%sockfd%` retuning errno `%errnoStr%` for slot `%slotNo%` and conduit Type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
sockfd	sInt
errnoStr	String

HAL.Conduit.SockCtrlBlkCflct

Description

A management module component, which processes events sent to and received from the I/O blades, has detected a mismatch between the socket file descriptor in the conduit event database and the socket file descriptor saved in the blade database for the current event. One of the databases may be corrupted. The internal application may retry the initial request that is associated with the event.

Remedy

No remedy is available.

Severity

Error

Message Text

Conduit event processing detected a mismatch between event file descriptor `%eventFd%` and blade database file descriptor `%bladeFd%` for slot `%slotNo%` and Tcp port `%tcpPort%` - EventID:`%evtId%`.

Message Parameters

Name	Type
slotNo	uInt
tcpPort	uInt
eventFd	sInt
bladeFd	sInt
evtId	String

HAL.Conduit.RecvSockClose

Description

A management module component, processing received events from the I/O blades, has detected a problem with the conduit event socket file descriptor. Look up the error code for more details about this condition. The device manager componenet at MM will restart the I/O slot, if configured to do so on failure.

Remedy

No remedy is available.

Severity

Warning

Message Text

A conduit receive event detected a socket error for file descriptor `%eventSck%` was detected for slot `%slotNo%` and Tcp port `%tcpPort%` - returning errno # `%errorNo%` (`%errStr%`) - EventID:`%entId%`.

Message Parameters

Name	Type
slotNo	uInt
tcpPort	uInt
eventSck	sInt
errorNo	sInt
errStr	String
entId	String

HAL.Conduit.RecvSockInv

Description

A management module component, processing received events from the I/O blades, has detected an invalid socket file descriptor. This is possibly due to a software programming error. The device manager component at MM will restart IO slot if configured to do so.

Remedy

No remedy is available.

Severity

Error

Message Text

A conduit receive event detected a bad file descriptor of `%eventSck%` for slot `%slotNo%` and Tcp port `%tcpPort%` - EventID:`%entId%`.

Message Parameters

Name	Type
slotNo	uInt
tcpPort	uInt
eventSck	sInt
entId	String

HAL.Conduit.RegClbkSockInv

Description

A management module component, initializing IP connections to I/O blades or processing a request to reconfigure the number of executing threads, has detected an invalid socket file descriptor. The conduit connection database may be corrupted.

Remedy

This is possibly the result of internal data corruption or a software programming error. Report the problem to your switch support contact.

Severity

Error

Message Text

An attempt to add an invalid file descriptor `%connFd%` to a conduit database was detected for slot `%slotNo%` and conduit type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
connFd	sInt

HAL.Conduit.UnregClbkSockInv

Description

A management module component, disabling IP connections to I/O blades, has detected an invalid socket file descriptor. The conduit connection database may be corrupted, or an internal application may have issued more than one request to close the connected socket.

Remedy

No remedy is available.

Severity

Error

Message Text

An attempt to delete invalid file descriptor `%connFd%` from a conduit database was detected for slot `%slotNo%` and conduit type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
connFd	sInt

HAL.Conduit.InitArgInv

Description

A switch module component, creating and initializing system I/O communication conduits between management modules and I/O blades, has detected an invalid range for one of the API's parameters. An internal application invocation may have settings that are beyond the allowable range.

Remedy

No remedy is available.

Severity

Error

Message Text

System I/O conduit initialzation for `%textType%` has detected `%reason%` for: slot # `%slotNo%`; pipe # `%pipeNum%`; first conduit # `%firstCond%`; total # of conduits `%totalCond%`.

Message Parameters

Name	Type
slotNo	uInt
pipeNum	uInt
firstCond	uInt
totalCond	uInt
textType	String
reason	String

HAL.Conduit.AllocCtrlBlkFail

Description

A switch module component, creating and initializing system I/O communication conduits between management modules and I/O blades, received a failing return code from a resource allocation request.

Remedy

No remedy is available.

Severity

Error

Message Text

An allocate request for `%size%` failed during conduit initialzation for slot # `%slotNo%` and conduit type `%conduitType%`.

Message Parameters

Name	Type
slotNo	uInt
conduitType	String
size	uInt

HAL.Conduit.SendMsgCtrlNull

Description

A component that manages transmitting requests from internal management module applications to IO cards aborted an event transmission because the event control data was not provided in the request. This is possibly a result of internal data corruption or a software error.

Remedy

No remedy is available.

Severity

Error

Message Text

A request to send a message to an IO card failed - sending slot `%slotNo%`, conduit type `%cndt%`, call arg1 `%app1%`, call arg2 `%app2%`, and callback info `%callBk%`.

Message Parameters

Name	Type
slotNo	uInt
cndt	String
app1	uInt
app2	uInt
callBk	uInt

HAL.Conduit.MsgCtrlNotInUse

Description

A component that manages transmitting requests from internal management module applications to IO cards detected that the current an event resource is not marked as in use and is invalid for this request. This is possibly a result of internal data corruption or a software error.

Remedy

No remedy is available.

Severity

Error

Message Text

A request, to send a message to an IO card, references an invalid resource `%event%` - sending slot `%slotNo%`, conduit type `%cndt%`, callback info. `%callBk%`.

Message Parameters

Name	Type
slotNo	uInt
cndt	String
event	uInt
callBk	uInt

HAL.Conduit.SlotNumInv

Description

A component that manages transmitting requests from internal management module applications to IO cards has detected a slot number that is not within the valid range for this configuration.

Remedy

This is possibly the result of internal data corruption or a software programming error. Report the problem to your switch support contact.

Severity

Error

Message Text

A request to send a message to an IO card contained an invalid slot # `%slotNo%` - other valid message parameters include conduit type `%cndt%`, call arg1 `%app1%`, call arg2 `%app2%`.

Message Parameters

Name	Type
slotNo	uInt
cndt	String
app1	uInt
app2	uInt

HAL.Conduit.SlotNotCnct

Description

A component that manages transmitting requests from internal management module applications to IO cards has detected that a valid TCP connection to the slot for a given slot type is not established.

Remedy

This is possibly a result of insufficent system resources. The internal component will retry the request. If the problem persists, then try reducing the number of features that you have enabled on your system.

Severity

Error

Message Text

A request to send a message to an IO card was rejected because a valid connection does not exist for slot # `%slotNo%` , conduit type `%cndt%`, and socket `%sock%` - other message parameters call arg1 `%app1%`, call arg2 `%app2%`.

Message Parameters

Name	Type
slotNo	uInt
cndt	String
sock	sInt
app1	uInt
app2	uInt

HAL.Conduit.SendSeqNumOvrfl

Description

A component that manages transmitting requests from internal management module applications to IO cards has detected that the request sequence number has wrapped. This condition indicates that thousands of events are pending transmition, and this almost certainly indicates a hardware failure.

Remedy

Report the issue to your switch support contact.

Severity

Error

Message Text

A request to send a message to an IO card was rejected because the maximum # of outstanding requests has been exceeded - sequence # `%seqNo%` seq. Ack. # `%seqAck%` , blade # `%blade%`, pipe # `%pipe%` and conduit # `%condNum%`.

Message Parameters

Name	Type
seqNo	uInt16
seqAck	uInt16
blade	uInt
pipe	String
condNum	uInt

HAL.Conduit.StateSeqNumOvrfl

Description

A component that manages transmitting requests from internal management module applications to IO cards has detected that the request sequence number has wrapped. In this condition, message sending is disabled and acknowledements are not being received. This almost certainly indicates a hardware failure.

Remedy

Report the issue to your switch support contact.

Severity

Error

Message Text

A request to send a message to an IO card was rejected because the transmit queue is full - sequence # `%seqNo%` seq. Ack. # `%seqAck%` , blade # `%blade%`, pipe # `%pipe%` and conduit # `%condNum%`.

Message Parameters

Name	Type
seqNo	uInt16
seqAck	uInt16
blade	uInt
pipe	String
condNum	uInt

HAL.Conduit.FndCtrlBlkFail

Description

A component that manages transmitting requests from internal management module applications to IO cards has detected an invalid transport state. The slot number or the pipe ID is not valid, or an internal communication control block could not be verified.

Remedy

This is possibly a result of internal data corruption or software programming error. Report the problem to your switch support contact.

Severity

Error

Message Text

A request to send a message to an IO card contained an invalid slot # `%slotNo%` or pipe ID `%pipe%` - other valid message parameters include conduit type `%cndt%`, and conduit ID # `%cndtNum%`.

Message Parameters

Name	Type
slotNo	uInt
cndt	String
pipe	String
cndtNum	uInt

HAL.Conduit.SendReqFail

Description

An attempt to send a conduit event message to an IO blade failed. The underlying system socket has failed and is closed as part of the recovery.

Remedy

This may be a result of low system resources, and may be resolved by reducing the number of features that are configured on the switch. Otherwise, report the problem to your switch support contact.

Severity

Error

Message Text

A conduit event transmission failed for slot `%slotNum%`, conduit type `%cndtType%`, socket `%fd%`, errno `%err%`(`%errStr%`) .

Message Parameters

Name	Type
slotNum	uInt
cndtType	String
fd	uInt
err	uInt
errStr	String

HAL.Conduit.RecvMsgNoRegClbk

Description

A internal component was unable to process received socket traffic from an I/O blade because a conduit resource was not registered.

Remedy

This may be a result of low system resources, and may be resolved by reducing the number of features that are configured on the switch. Otherwise, report the problem to your switch support contact.

Severity

Error

Message Text

No registered pipe handler found for a received event notication for slot `%slotNum%`, conduit type `%cndtType%`, and pipe `%pipeNo%`.

Message Parameters

Name	Type
slotNum	uInt
cndtType	String
pipeNo	String

HAL.Conduit.RecvMsgRtrnCodeDtct

Description

A system component attempting to process a received response from an I/O blade detected a conduit API failure.

Remedy

This may be a result of low system resources, and may be resolved by reducing the number of features that are configured on the switch. Otherwise, report the problem to your switch support contact.

Severity

Debug-Summary

Message Text

A conduit failure was detected posting return code `%retcode%` for slot `%failSlot%` while processing event response for slots `%slotInfo%`, pipe ID `%pipeId%` and conduit ID `%conduitNum%` .

Message Parameters

Name	Type
slotInfo	String
pipeId	String
conduitNum	uInt
retcode	String
failSlot	uInt

HAL.Conduit.RecvMsgSizExcd

Description

A system component attempting to process a received response from an I/O blade detected an invalid event buffer size.

Remedy

This could be due to a software defect in Management module. Gather "show tech" details and report the problem to the switch support contact.

Severity

Error

Message Text

An invalid event buffer size of `%size%` was detected while processing received conduit messages for slots `%slotInfo%`.

Message Parameters

Name	Type
slotInfo	String
size	uInt

HAL.Conduit.RecvMsgClbkNotFnd

Description

A internal component was unable to process received socket traffic from an I/O blade because a conduit callback resource was not found.

Remedy

Report the problem to your switch support contact.

Severity

Debug-Summary

Message Text

No callback resource found for a received event response from `%slot%` for pipe `%pipeNo%`, conduit num `%num%`, group flag `%grpFlag%`, sequence no `%seq%`, group seq. `%gseq%`, mmStime `%MMS%`, mmRtime `%MMR%`, ioRtime `%IOR%`, and ioStime `%IOS%`.

Message Parameters

Name	Type
slot	uInt
pipeNo	String
num	uInt
grpFlag	uInt
seq	uInt
gseq	uInt
MMS	uInt
MMR	uInt
IOR	uInt
IOS	uInt

HAL.Conduit.RecvMsgStateFail

Description

A system component attempting to process a received response from an I/O blade detected a return code indicating that I/O component failed to process a conduit message.

Remedy

Report the problem to your switch support contact.

Severity

Error

Message Text

A response from IO blade slot `%slotNo%` indicates that `%errTxt%` for slots `%slotInfo%` and pipe ID `%pipe%` , conduit ID `%cndtNum%`.

Message Parameters

Name	Type
slotInfo	String
pipe	String
cndtNum	uInt
slotNo	uInt
errTxt	String

HAL.Conduit.PollWaitFail

Description

A system component waiting for an I/O event on an epoll file descriptor failed. Look up the errno value for more details.

Remedy

Report the problem to your switch support contact.

Severity

Error

Message Text

An invocation of epoll_wait() fail with return code `%retcode%` and errno `%errNum%` (`%errStr%`).

Message Parameters

Name	Type
retcode	uInt
errNum	uInt
errStr	String

HAL.Conduit.PollWaitSlotNotReg

Description

A system component attempting to process a received response from an I/O blade detected that no slots were registered with the current thread. This is probably a software programming error or a result of data corruption of internal control blocks.

Remedy

Reboot the switch and report the problem to your switch support contact.

Severity

Error

Message Text

Received data on a file descriptor `%fd%`, but no slots were added to the thread - sock type `%sockT%`, slot start `%slotStrt%`, slot end `%slotEnd%`.

Message Parameters

Name	Type
sockT	uInt
fd	uInt
slotStrt	uInt
slotEnd	uInt

HAL.Conduit.InitAlrdyDone

Description

The management component is trying to initialize the conduit module again, resulting in an error.

Remedy

This is possibly a result of internal data corruption or software programming error. Report the problem to your switch support contact.

Severity

Error

Message Text

Conduit Module already Initialized `%numInit%`

Message Parameters

Name	Type
numInit	uInt

HAL.Conduit.RecvSlotErrMsg

Description

A problem has been detected which is interfering with the normal operation of the system. A system component running at I/O blade reported this error while attempting to process a request, from Management module.

Remedy

The exact remedy is dependant on the particular situation. This maybe a result of low system resources, and maybe resolved by reducing the amount of features that are configured on the switch. Otherwise, report the problem to your switch support contact.

Severity

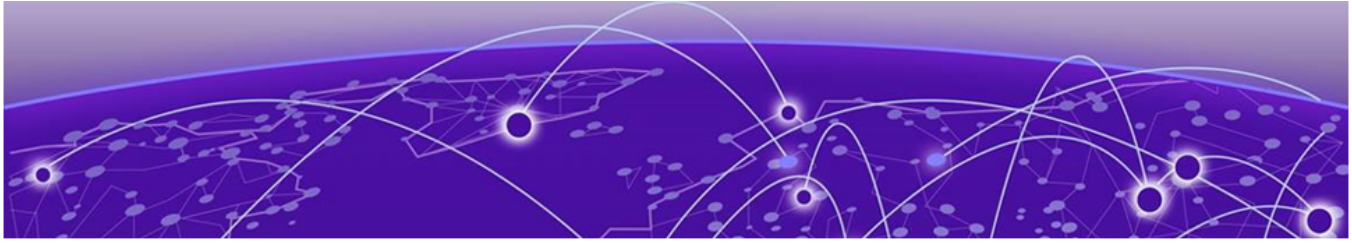
Debug-Summary

Message Text

A failure was detected in slot `%slot%` while processing event on pipe `%pipeId%` conduit ID `%conduitNum%` with return code `%retcode%`. App data `%appData%`

Message Parameters

Name	Type
slot	uInt
pipeId	String
conduitNum	uInt
retcode	String
appData	uInt



HAL.Device Messages

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HAL.Device.Warning on page 1754
HAL.Device.Notice on page 1754
HAL.Device.Info on page 1755
HAL.Device.DebugSummary on page 1755
HAL.Device.DebugVerbose on page 1756
HAL.Device.DebugData on page 1757

HAL.Device.Error

Description

A problem has been detected which is interfering with the normal operation of the system device. The system is not functioning as expected. The problem may be related to the failure to access a device hardware.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Device.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system device, may signal that the system device in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Device.Notice

Description

A normal but significant condition has been detected, which signals that the system device is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Device.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system device's functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Device.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some device's behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system device are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Device.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some device's behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Device.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying device's behavior

Remedy

No action required - Informational message only.

Severity

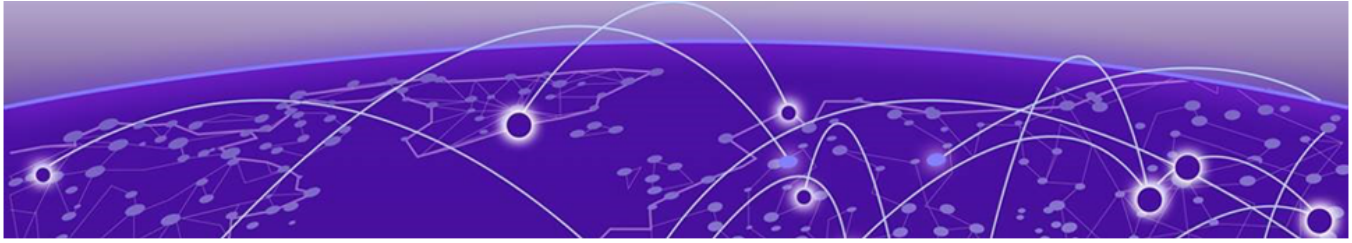
Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



HAL.Fabric Messages

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HAL.Fabric.Error on page 1759
HAL.Fabric.Warning on page 1759
HAL.Fabric.Notice on page 1760
HAL.Fabric.Info on page 1760
HAL.Fabric.DebugSummary on page 1761
HAL.Fabric.DebugVerbose on page 1762
HAL.Fabric.DebugData on page 1762

HAL.Fabric.Critical

Description

The Switch Fabric Module on the specified system has logged a message of severity as Critical. This event is due to a problem that should not happen during normal operation. Many different messages and causes map to this one EMS event. The system cannot function as expected unless it is remedied. The problem may be related to Memory allocation failure or Invalid Fabric Access Processor id, Invalid Multicast group identification number during high availability check pointing message reception etc.

Remedy

A possible remedy will be is to use the "show memory" and "show log" commands to monitor the system status. you can either change the system configuration or free up the system memory by ending processes which are currently not needed if memory allocation failed. you can either reset the active MM card is possible option. If the problem persists, please try failover or rebooting the switch.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Fabric.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Fabric.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Fabric.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Fabric.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed

information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Fabric.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Fabric.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Fabric.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

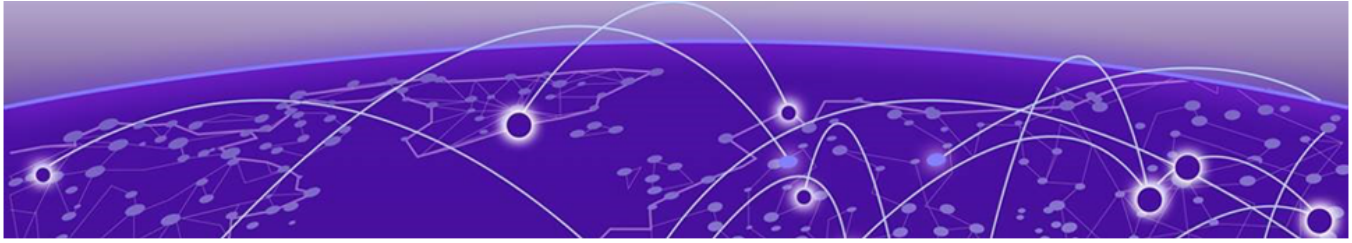
Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



HAL.FDB Messages

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HAL.FDB.Warning on page 1766
HAL.FDB.Notice on page 1767
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HAL.FDB.DebugSummary on page 1768
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HAL.FDB.EnterRemFilt on page 1770
HAL.FDB.EnterLocateGlobFilt on page 1770
HAL.FDB.EnterAddGlobFilt on page 1771
HAL.FDB.EnterFndGlobFilt on page 1772
HAL.FDB.EnterDelGlobFilt on page 1772
HAL.FDB.EnterSyncHard on page 1773
HAL.FDB.EnterCardInit on page 1773
HAL.FDB.EnterCardClean on page 1774
HAL.FDB.EnterWritEnt on page 1774
HAL.FDB.EnterCkRfrsh on page 1775
HAL.FDB.EnterFamInit on page 1775
HAL.FDB.EnterFamClean on page 1776
HAL.FDB.EnterLkup on page 1777
HAL.FDB.EnterAllocEnt on page 1777
HAL.FDB.EnterDelEnt on page 1778
HAL.FDB.EnterAddPortFilt on page 1778
HAL.FDB.EnterDelPortFilt on page 1779
HAL.FDB.EnterAddSlotFilt on page 1779
HAL.FDB.EnterDelSlotFilt on page 1780
HAL.FDB.EnterAddFilt on page 1780
HAL.FDB.EnterDelFilt on page 1781
HAL.FDB.L2SlotTblFull on page 1782
HAL.FDB.L2SlotTblFullEnt on page 1782
HAL.FDB.L2GlobTblFull on page 1783
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HAL.FDB.MacVlanAddFail on page 1784

HAL.FDB.RecvDupMAC on page 1785
HAL.FDB.DeleteDynMAC on page 1786
HAL.FDB.DelMACLkupFail on page 1786
HAL.FDB.AddMACEntFail on page 1787
HAL.FDB.AddDynMAC on page 1788
HAL.FDB.LkupTxMIFail on page 1788
HAL.FDB.PackSlotMsgFail on page 1789
HAL.FDB.AllocMemFail on page 1789
HAL.FDB.AllocSlotMsgFail on page 1790
HAL.FDB.SendSlotMsgFail on page 1791
HAL.FDB.ParmNull on page 1791
HAL.FDB.VLANIfNull on page 1792
HAL.FDB.MACDup on page 1792
HAL.FDB.HwVLANIfNull on page 1793
HAL.FDB.LkupPortFail on page 1793
HAL.FDB.DelMACEntFail on page 1794
HAL.FDB.SlotDown on page 1795
HAL.FDB.ParmInv on page 1795
HAL.FDB.SendAsyncSlotMsgFail on page 1796
HAL.FDB.InsMACEntFail on page 1796
HAL.FDB.GetPortInfoFailed on page 1797
HAL.FDB.GetVLANInfoFailed on page 1798
HAL.FDB.AddOutrMACFail on page 1798
HAL.FDB.UpdtOutrMACFail on page 1799
HAL.FDB.StrtDelOutrMACFail on page 1799
HAL.FDB.CmpltDelOutrMACFail on page 1800
HAL.FDB.AddOutrMACDelEntFail on page 1801
HAL.FDB.RfrshOutrMACFail on page 1801
HAL.FDB.GetOutrMACInfoFail on page 1802
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HAL.FDB.APIFail on page 1803
HAL.FDB.MsgQueHigh on page 1804
HAL.FDB.MsgQueLow on page 1804
HAL.FDB.ExcssMACMove on page 1805

HAL.FDB.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterInsFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterRemFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterLocateGlobFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterAddGlobFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterFndGlobFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterDelGlobFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterSyncHard

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterCardInit

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterCardClean

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterWritEnt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterCkRfrsh

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterFamInit

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterFamClean

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterLkup

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterAllocEnt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterDelEnt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterAddPortFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterDelPortFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterAddSlotFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterDelSlotFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterAddFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.EnterDelFilt

Description

A particular internal function has been entered, the execution of which may interest a developer analyzing some system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FDB.L2SlotTblFull

Description

At least 1 MAC FDB entry could not be added on the specified slot because the hardware table is full. The hardware table is organized as a hash table so it is possible that there is still room for other MAC FDB entries that hash to different hash bucket locations. This message will be logged at most 1 time per hour per slot while new FDB forwarding entries trigger this condition.

Remedy

An associated debug-summary level message "HAL.FDB.L2SlotTblFullEnt" can be enabled to view per-occurrence details including MAC address and vlan information. In addition, "debug hal show fdb" can be used to determine which FDB entries were not added to hardware.

Severity

Warning

Message Text

FDB entry not added on slot `%slot%`. Hardware hash table has at least one full hash bucket. Other buckets may still have free space for other entries.

Message Parameters

Name	Type
slot	sInt

HAL.FDB.L2SlotTblFullEnt

Description

The specified MAC FDB entry was not added to a specific slot because the hardware table is full. This message will be logged for every MAC FDB entry that cannot be added due to this condition.

Remedy

The command "debug hal show fdb" can be used to determine which FDB entries were not added to hardware.

Severity

Debug-Summary

Message Text

FDB entry (`%MACAddress%` vlan `%vlanId%`) not added to slot `%slot%`. Hardware hash bucket for this MAC entry is full. Other buckets may still have free space for other entries.

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag
slot	sInt

HAL.FDB.L2GlobTblFull

Description

At least 1 Permanent MAC FDB entry could not be added globally because the hardware table is full. The hardware table is organized as a hash table so it is possible that there is still room for other MAC FDB entries that hash to different hash bucket locations. This message will be logged at most 1 time per hour per slot while new FDB forwarding entries trigger this condition.

Remedy

An associated debug-summary level message "HAL.FDB.L2GlobTblFullEnt" can be enabled to view per-occurrence details including MAC address and vlan information. In addition, "debug hal show fdb" can be used to determine which FDB entries were not added to hardware.

Severity

Warning

Message Text

Permanent FDB entry not added. Hardware Table full.

HAL.FDB.L2GlobTblFullEnt

Description

The specified MAC FDB entry was not added globally because the hardware table is full. This message will be logged for every permanent MAC FDB entry that cannot be added due to this condition.

Remedy

The command "debug hal show fdb" can be used to determine which FDB entries were not added to hardware.

Severity

Debug-Summary

Message Text

Permanent FDB entry (`%MACAddress%` vlan `%vlanId%`) not added. Hardware Table full.

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag

HAL.FDB.MacVlanAddFail

Description

The specified MAC-based Vlan entry was not added. This will cause any untagged packets received using this MAC address as the source to not be assigned to the correct Vlan and be dropped or mishandled. The errorMsg field gives additional information from the low-level software layer on why the failure occurred.

Remedy

Changing the forwarding hash-algorithm will change the way this hardware resource is programmed. Generally, crc32 performs better table utilization than crc16 but that is not always true for a given MAC address set. Since this resource is shared by a block of ports, the user can connect fewer ports to each block to help mitigate this condition.

Severity

Warning

Message Text

MAC-based VLAN entry `%MACAddress%` vlan `%vlanId%` addition to port `%slotPort%` failed, `%errorMsg%`

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag
slotPort	SlotPort
errorMsg	String

HAL.FDB.RecvDupMAC

Description

This MAC address has already been added by the upper application layer via FDB. We are also now learning this in hardware, which means we may have overwritten the previous entry.

Remedy

This is not a problem and is used by software to track duplicate notifications during topology changes.

Severity

Debug-Summary

Message Text

Dynamic entry being recived for MAC `%MACAddress%` vlan `%vlanId%` to port `%slotPort%` that has been already been added. Old handle `%halFdbHandle%`

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag

Name	Type
slotPort	uInt32
halFdbHandle	uInt32

HAL.FDB.DeleteDynMAC

Description

There was an error in the HAL common infrastructure layer when notifying the delete of this Dynamic MAC entry.

Remedy

Execute the "clear fdb" command for this MAC, to clean up the entry in software if hardware does not have this entry. To see the hardware entry execute "show fb hardware <MAC> <vlan> slot all".

Severity

Error

Message Text

Error while notifying HAL upper layer to delete this Dynamic entry MAC `%MACAddress%` vlan `%vlanId%` to port `%slotPort%`

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag
slotPort	uInt32

HAL.FDB.DelMACLkupFail

Description

This node was not found in Platform software Btree when a delete dynamic MAC entry message was received.

Remedy

No action needed.

Severity

Notice

Message Text

Node not found in Platform software Btree when delete dynamic MAC entry message received. MAC `%MACAddress%` vlan `%vlanId%` to port `%slotPort%`

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag
slotPort	uInt32

HAL.FDB.AddMACEntFail

Description

This Dynamic MAC entry could not be added to the software Database.

Remedy

Enter the "clear fdb" command for this MAC, and relearn it in hardware by sending the MAC again. If the condition still persists, report it to the administrator so he/she can check the memory resources.

Severity

Error

Message Text

Error while adding a node to the software Btree in Dynamic Add MAC path. MAC `%MACAddress%` vlan `%vlanId%` to port `%slotPort%`

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag
slotPort	uInt32

HAL.FDB.AddDynMAC

Description

This Dynamic MAC address learned in hardware could not be updated in the upper HAL common layer, as well as in the FDB Mgr application. The database in hardware and software is out of sync.

Remedy

Execute "clear fdb" to clear the entry in hardware, but it can be relearned if it is a continuous stream.

Severity

Error

Message Text

Error while notifying HAL upper layer to add this Dynamic entry MAC `%MACAddress%` vlan `%vlanId%` to port `%slotPort%`

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag
slotPort	uInt32

HAL.FDB.LkupTxMIFail

Description

The txmi(Transmit Modification Index) for the given port and VMAN was not found.

Remedy

Delete and create the VMAN again.

Severity

Warning

Message Text

Error while getting Txmi for port `%slotPort%`, vlan `%vlanId%`, MAC `%MACAddress%` during `%context%`

Message Parameters

Name	Type
slotPort	uInt32
vlanId	VLAN-tag
MACAddress	MAC
context	String

HAL.FDB.PackSlotMsgFail

Description

This message could not be packaged to be sent over the conduit infrastructure between the MM and the I/O blade. This could be due to backlog of messages between the MM and the I/O slots.

Remedy

Replay any config that may be failing or reset the I/O slot. If the MM is running low on resources, it may need to be rebooted.

Severity

Error

Message Text

Error while packing data to be sent over conduit to I/O. Context: `%context%`

Message Parameters

Name	Type
context	String

HAL.FDB.AllocMemFail

Description

Memory is not allocated for this pointer.

Remedy

Memory resources may be running low. If not, this may need investigation on memory corruption. Report the problem if it doesn't go away after memory has been released.

Severity

Error

Message Text

No memory allocated for `%dataPtr%` in `%context%`

Message Parameters

Name	Type
dataPtr	String
context	String

HAL.FDB.AllocSlotMsgFail

Description

Memory is not allocated for sending over the conduit.

Remedy

Memory resources may be running low. If not, check for memory corruption. Report the problem if it doesn't go away after memory has been released.

Severity

Error

Message Text

No memory allocated for conduit numEntries `%entries%` in `%context%`

Message Parameters

Name	Type
entries	uInt32
context	String

HAL.FDB.SendSlotMsgFail

Description

This message indicates MM was not able to send data over the TCP conduit to I/O.

Remedy

Check the health of the I/O and whether it can be pinged from the MM. If it cannot be reached or messaged to, I/O is backed up, and an I/O reset may be needed.

Severity

Error

Message Text

Error while sending data over the conduit to the I/O blades. Context `%context%`.

Message Parameters

Name	Type
context	String

HAL.FDB.ParmNull

Description

The parameters passed to this function should be non-NULL. This is a internal software indication that the Pioneer FDB software was incorrectly invoked.

Remedy

Report the problem to the software team and if FDB learning is affected perform a "clear fdb".

Severity

Debug-Summary

Message Text

Calling function sent a NULL parameter `%param%` in `%context%` which is incorrect.

Message Parameters

Name	Type
param	String
context	String

HAL.FDB.VLANIfNull

Description

VlanIf is not expected to be NULL, but it is at this point.

Remedy

Retry the failing scenario or config or re-create the VLAN.

Severity

Debug-Summary

Message Text

VlanIf pointer got is NULL in `%context%`.

Message Parameters

Name	Type
context	String

HAL.FDB.MACDup

Description

This node/entry is not expected to be present, causing the code not to execute as expected.

Remedy

Delete the affected MAC entry and retry.

Severity

Error

Message Text

This MAC `%MACAddress%` vlan `%vlanId%` on port `%slotPort%` is already present when it is not expected in `%context%`.

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag
slotPort	uInt32
context	String

HAL.FDB.HwVLANIfNull

Description

VlanIf is not expected to be NULL, but it is at this point.

Remedy

Retry the failing scenario or config, or re-create the VLAN.

Severity

Debug-Summary

Message Text

Hardware VlanIf pointer got is NULL in `%context%`.

Message Parameters

Name	Type
context	String

HAL.FDB.LkupPortFail

Description

This port was not found in the pif Database which is the internal software database of all the ports in the system.

Remedy

No action needed.

Severity

Debug-Summary

Message Text

Unknown port `%slotPort%` got while in `%context%`.

Message Parameters

Name	Type
slotPort	uInt32
context	String

HAL.FDB.DelMACEntFail

Description

Error while deleting software node from Btree. Hardware and software could be out of sync.

Remedy

Execute the "clear fdb" command for the MAC and relearn.

Severity

Debug-Verbose

Message Text

Could not delete software btree node for MAC `%MACAddress%`, vlan `%vlanId%`, port `%slotPort%` during `%context%`. Hardware and software could be out of sync.

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag

Name	Type
slotPort	uInt32
context	String

HAL.FDB.SlotDown

Description

Nothing cannot execute on a card that is currently being reported as down.

Remedy

Wait for awhile, and if the error persists, reset the slot.

Severity

Notice

Message Text

The slot `%slot%` is not alive during `%context%`.

Message Parameters

Name	Type
slot	uInt32
context	String

HAL.FDB.ParmInv

Description

Invalid Parameter %param%=%value% passed in %context%. This message is a software indication that an invalid call was made to the Pioneer FDB software.

Remedy

This is a debug message. If learning is affected, do a "clear fdb".

Severity

Debug-Summary

Message Text

Parameter %param% has invalid value %value% in %context%

Message Parameters

Name	Type
param	String
value	uInt32
context	String

HAL.FDB.SendAsyncSlotMsgFail

Description

There was a failure when sending an Asynchronous conduit message from the Platform FDB code to I/O.

Remedy

No action needed.

Severity

Debug-Data

Message Text

An Async Conduit message failed in %context%.

Message Parameters

Name	Type
context	String

HAL.FDB.InsMACEntFail

Description

Inserting this node into the software Btree(Database) failed. Hardware and software database will be out of sync.

Remedy

Execute the "clear fdb" command for the MAC if these errors persist.

Severity

Error

Message Text

Inserting the node MAC `%MACAddress%` vlan `%vlanId%` port `%slotPort%` to the Btree `%btree%` failed in `%context%`

Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag
slotPort	uInt32
btree	String
context	String

HAL.FDB.GetPortInfoFailed

Description

HAL needs to get detailed port information before it can add the static FDB entry for the port. However, something went wrong and it failed to get the port information.

Remedy

Remove the port from the vlan and readd it. If this still fails, delete and re-add the vlan.

Severity

Error

Message Text

Getting port info has failed while adding static FDB entry for vlan `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.FDB.GetVLANInfoFailed

Description

HAL needs to get detailed VLAN information before it can add the static FDB entry for the VLAN. However, something went wrong and it failed to get the VLAN information.

Remedy

Delete the vlan and add the vlan again. If this fails, reboot the box.

Severity

Error

Message Text

Getting VLAN info has failed while adding static FDB entry for vlan `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.FDB.AddOutrMACFail

Description

This tunnel could not be added in hardware table.

Remedy

Execute "clear fdb" and retry the scenario again. If the problem persists, report it to the administrator so he/she can check the memory resources.

Severity

Error

Message Text

Error while creating tunnel for Outer MAC `%MAC%` vlan `%vlanId%` port `%slotPort%`.

Message Parameters

Name	Type
MAC	MAC
vlanId	VLAN-tag
slotPort	uInt32

HAL.FDB.UpdtOutrMACFail

Description

This tunnel could not be updated with the specified parameters.

Remedy

Delete the tunnel with a "clear fdb" command and retry the scenario. If error still persists report to the administrator with all the logs.

Severity

Error

Message Text

Error while updating MAC `%MAC%`, vlan `%vlanId%`, port `%slotPort%`, tunnel `%tunnelId%`.

Message Parameters

Name	Type
MAC	MAC
vlanId	VLAN-tag
slotPort	uInt32
tunnelId	uInt32

HAL.FDB.StrtDelOutrMACFail

Description

Delete for the specified tunnel could not be initiated.

Remedy

Check if the tunnel still exists. If it does and is a dynamic entry, then check whether the I/O or MM is busy. If the above is an issue, please notify the administrator with exact detail of the config, the tunnel paramters viz. MAC, vlan-tag, port that is having the problem.

Severity

Warning

Message Text

Error while initiating delete for Outer MAC `%MAC%`, vlan `%vlanId%`, port `%slotPort%`, tunnel `%tunnelId%`.

Message Parameters

Name	Type
MAC	MAC
vlanId	VLAN-tag
slotPort	uInt32
tunnelId	uInt32

HAL.FDB.CmpltDelOutrMACFail

Description

Delete for the specified tunnel could not be completed.

Remedy

Check if the tunnel still exists. If it does and is a dynamic entry, then check whether the I/O or MM is busy. If the above is an issue, please notify the administrator with exact detail of the config, the tunnel paramters viz. MAC, vlan-tag, port that is having the problem.

Severity

Warning

Message Text

Error while completing delete of Outer MAC `%MAC%`, vlan `%vlanId%`, port `%slotPort%`, tunnel `%tunnelId%`.

Message Parameters

Name	Type
MAC	MAC
vlanId	VLAN-tag
slotPort	uInt32
tunnelId	uInt32

HAL.FDB.AddOutrMACDelEntFail

Description

The addition of this Tunnel entry to the Outer MAC delete software database failed.

Remedy

Check the memory resources and see if they are full. If not execute a "clear fdb". If that does not help for this specific entry please notify the administrator with the details of the tunnel viz. Outer MAC, vlan-tag, port.

Severity

Warning

Message Text

Error while adding Outer MAC `%MAC%`, vlan `%vlanId%`, port `%slotPort%`, tunnel `%tunnelId%` to the delete list in the software database.

Message Parameters

Name	Type
MAC	MAC
vlanId	VLAN-tag
slotPort	uInt32
tunnelId	uInt32

HAL.FDB.RfrshOutrMACFail

Description

This tunnel could not be refreshed in hardware table.

Remedy

Execute "clear fdb" and retry the scenario again. If the problem persists, report it to the administrator with details of the MAC, vlan-tag and port.

Severity

Warning

Message Text

Error while refreshing tunnel for Outer MAC `%MAC%` vlan `%vlanId%` port `%slotPort%` tunnel `%tunnelId%`.

Message Parameters

Name	Type
MAC	MAC
vlanId	VLAN-tag
slotPort	uInt32
tunnelId	uInt32

HAL.FDB.GetOutrMACInfoFail

Description

The paramters of what comprises this tunnel could not be obtained in software.

Remedy

This is a debug message.

Severity

Debug-Summary

Message Text

Error while obtaining tunnel information in software for the tunnel `%tunnelId%`.

Message Parameters

Name	Type
tunnelId	uInt32

HAL.FDB.GetInnrMACInfoFail

Description

The paramters of what comprises this tunnel could not be obtained in software.

Remedy

This is a debug message.

Severity

Debug-Summary

Message Text

Error while obtaining Inner MAC information in software for the tunnel `%tunnelId%`.

Message Parameters

Name	Type
tunnelId	uInt32

HAL.FDB.APIFail

Description

This API call failed.

Remedy

This is a debug message.

Severity

Debug-Summary

Message Text

Error while calling API `%API%`, parameters: `%param1% %param2% %param3%`.

Message Parameters

Name	Type
API	String
param1	uInt
param2	uInt
param3	String

HAL.FDB.MsgQueHigh

Description

The IPML internal message queue from FDBMgr to HAL is getting large which will result in hardware programming delays. HAL has automatically taken action to reduce the L2 learning rate and set a software learn rate limit. To view the IPML message queue information, use "debug msgsrv show msgqueues".

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

IPML msgQ from FDBMgr to HAL exceeded high-water mark

HAL.FDB.MsgQueLow

Description

The IPML internal message queue from FDBMgr to HAL has decreased back to normal levels. Hardware programming delays should no longer be present. This message will only been seen after HAL.FDB.MsgQueHigh has previously been triggered. HAL has automatically removed L2 learning rate limits associated with HAL.FDB.MsgQueHigh. To view the IPML message queue information, use "debug msgsrv show msgqueues".

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

IPML msgQ from FDBMgr to HAL has decreased back to normal levels

HAL.FDB.ExcssMACMove

Description

Hardware FDB learn notification indicates that the number of mac moves on given slot is high. This will make HAL busy, spending more time on FDB learn notification processing. HAL has automatically taken action to reduce the L2 learning rate for a short period".

Remedy

No action required. But there may be a loop in the network; and if the network does have a physical loop, it is suggested that a loop prevention protocol like STP be configured.

Severity

Info

Message Text

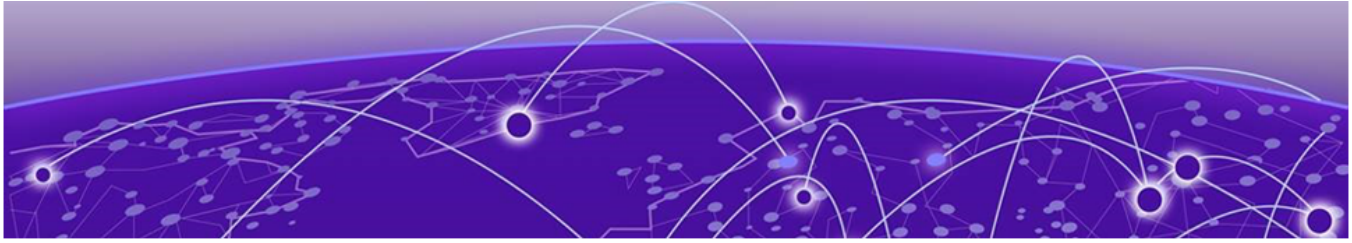
Excessive MAC move notification from hardware encountered on slot `%slot%`.

Message Parameters

Name	Type
slot	Slot

Applicable Platforms

- Summit family switches



HAL.FlowMon Messages

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HAL.FlowMon.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FlowMon.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FlowMon.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FlowMon.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FlowMon.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FlowMon.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.FlowMon.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

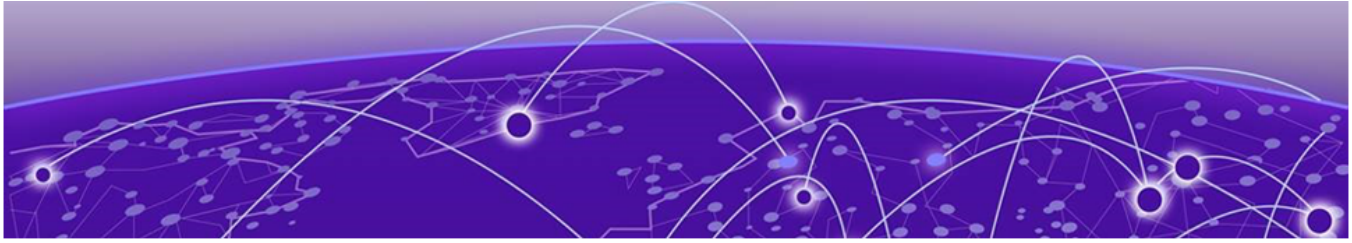
Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



HAL.GPTP Messages

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HAL.GPTP.DebugVerbose on page 1812
HAL.GPTP.DebugData on page 1812
HAL.GPTP.DebugTransmit on page 1813
HAL.GPTP.DebugReceive on page 1814
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HAL.GPTP.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.GPTP.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.GPTP.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.GPTP.DebugTransmit

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator

HAL.GPTP.DebugReceive

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.GPTP.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.GPTP.DebugTxTsFail

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator

HAL.GPTP.Info

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

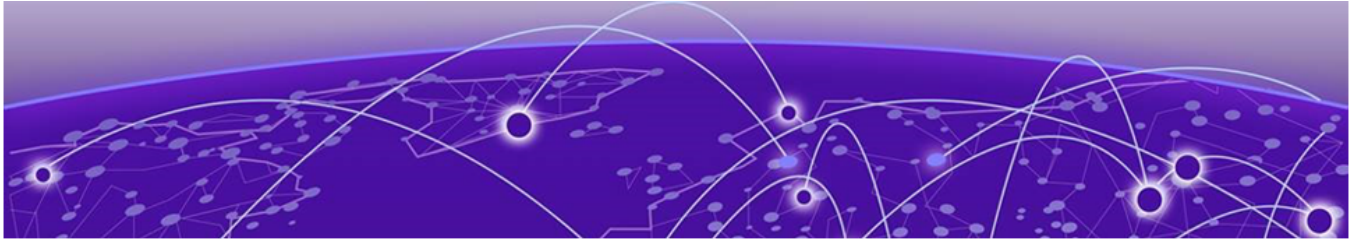
```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



HAL.IPv4ACL Messages

HAL.IPv4ACL.Error on page 1818
HAL.IPv4ACL.Warning on page 1818
HAL.IPv4ACL.Notice on page 1819
HAL.IPv4ACL.Info on page 1819
HAL.IPv4ACL.DebugSummary on page 1820
HAL.IPv4ACL.DebugVerbose on page 1821
HAL.IPv4ACL.DebugData on page 1821
HAL.IPv4ACL.PbrIpCfg on page 1822
HAL.IPv4ACL.InitSlotFail on page 1822
HAL.IPv4ACL.AllocSlotMsgFail on page 1823
HAL.IPv4ACL.SendSlotCfgMsgFail on page 1823
HAL.IPv4ACL.AllocMemFail on page 1824
HAL.IPv4ACL.AllocTCAMFail on page 1824
HAL.IPv4ACL.GetPortInfFail on page 1825
HAL.IPv4ACL.LkupVLANFail on page 1825
HAL.IPv4ACL.SyncSlotFail on page 1826
HAL.IPv4ACL.DelDynRuleFail on page 1826
HAL.IPv4ACL.DelPolRuleFail on page 1827
HAL.IPv4ACL.LkupTCAMIndexFail on page 1828
HAL.IPv4ACL.CreatHwCntFail on page 1828
HAL.IPv4ACL.DelHwCntFail on page 1829
HAL.IPv4ACL.ClrHwCntFail on page 1829
HAL.IPv4ACL.GetHwCntFail on page 1830
HAL.IPv4ACL.AddHwRuleFail on page 1830
HAL.IPv4ACL.DelHwRuleFail on page 1831
HAL.IPv4ACL.LkupRuleFail on page 1831
HAL.IPv4ACL.LkupInstFail on page 1832
HAL.IPv4ACL.SyncSlotTmout on page 1833

HAL.IPv4ACL.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4ACL.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4ACL.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4ACL.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4ACL.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4ACL.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4ACL.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4ACL.PbrIpCfg

Description

Policy Based Routing will not take effect until there is an arp entry for the IP address specified in the redirect option. This arp entry cannot exist unless there is an IP address configured on this switch on the same subnet. Once the IP address is configured and the arp entry is known, Policy Based Routing will start automatically.

Remedy

Ensure that the completed configuration includes an IP address on the same subnet as the IP specified in the redirect action.

Severity

Info

Message Text

There is no IP address configured on the switch that is on the same subnet as the IP address `%ipaddr%` specified in the redirect option.

Message Parameters

Name	Type
ipaddr	IP

HAL.IPv4ACL.InitSlotFail

Description

The Management module failed to initialize conduits for sending and receiving ACL related messges to I/O slots. With this error, ACL feature cannot be used.

Remedy

System should be rebooted to use ACL feature.

Severity

Error

Message Text

An action to create conduits with IO slots failed with error `%rc%`

Message Parameters

Name	Type
rc	uInt

HAL.IPv4ACL.AllocSlotMsgFail

Description

Cannot send ACL configuration to one or more IO slots as Management module failed to allocate a conduit message.

Remedy

Redo the configuration after sometime

Severity

Warning

Message Text

An operation to allocate conduit event of length `%len%` failed

Message Parameters

Name	Type
len	uInt

HAL.IPv4ACL.SendSlotCfgMsgFail

Description

An operation to send ACL configuration to IO slot failed.

Remedy

Disable and re-enable the slot and try again.

Severity

Warning

Message Text

An operation to send ACL configuration `%num%` to one or more slots failed with error `%str%`

Message Parameters

Name	Type
num	uInt
str	String

HAL.IPv4ACL.AllocMemFail

Description

CPU is not able to allocate memory to store ACL configuration.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

A resource allocation to store ACL failed

HAL.IPv4ACL.AllocTCAMFail

Description

System does not have enough TCAM to allocate.

Remedy

Clean up unused ACL rules and try to configure ACL again.

Severity

Warning

Message Text

The TCAM allocation for ACL failed

HAL.IPv4ACL.GetPortInfFail

Description

Unable to get port information from vlan module.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

Can not resolve port information from `%slot%:%port%`

Message Parameters

Name	Type
slot	uInt
port	uInt

HAL.IPv4ACL.LkupVLANFail

Description

Unable to get vlan information from vlan module.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

Can not resolve vlan nformation from vlan instance `%vlan%`

Message Parameters

Name	Type
vlan	uInt

HAL.IPv4ACL.SyncSlotFail

Description

Configuration of ACL in this IO slot failed.

Remedy

Disable and re-enable the slot and try again.

Severity

Warning

Message Text

An operation to sync ACL event `%event%` failed in the IO slot `%slot%`.

Message Parameters

Name	Type
slot	uInt
event	String

HAL.IPv4ACL.DelDynRuleFail

Description

Trying to delete an ACL which is in use

Remedy

Check which feature uses the ACL and remove ACL usage from that feature .

Severity

Error

Message Text

An action to delete dynamic ACL `%index%` failed. ACL is in use. Reference count `%rc%`

Message Parameters

Name	Type
index	uInt
rc	uInt

HAL.IPv4ACL.DelPolRuleFail

Description

Trying to delete an ACL which is in use

Remedy

Check which feature uses the ACL and remove ACL usage from that feature .

Severity

Error

Message Text

An action to delete static ACL `%name%` failed. ACL is in use. Reference count `%rc%`

Message Parameters

Name	Type
name	String
rc	uInt

HAL.IPv4ACL.LkupTCAMIndexFail

Description

TCAM module is not able to resolve the index by the handler.

Remedy

Disable and re-enable the slot and try again.

Severity

Warning

Message Text

Fail to resolve TCAM index handler `%ind%`

Message Parameters

Name	Type
ind	uInt

HAL.IPv4ACL.CreatHwCntFail

Description

A create operation failed on ACL counter hardware table.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

`%IngressEgress%` ACL counter create operation failed in index `%ind%`.

Message Parameters

Name	Type
IngressEgress	String
ind	uInt

HAL.IPv4ACL.DelHwCntFail

Description

A delete operation failed on ACL counter hardware table.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

`%IngressEgress%` ACL counter delete operation failed in index `%ind%`.

Message Parameters

Name	Type
IngressEgress	String
ind	uInt

HAL.IPv4ACL.ClrHwCntFail

Description

A clear operation failed on ACL counter hardware table.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

`%IngressEgress%` ACL counter clear operation failed in index `%ind%`.

Message Parameters

Name	Type
IngressEgress	String
ind	uInt

HAL.IPv4ACL.GetHwCntFail

Description

A get operation failed on ACL counter table.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

`%IngressEgress%` Unable to read ACL counter `%ind%`.

Message Parameters

Name	Type
IngressEgress	String
ind	uInt

HAL.IPv4ACL.AddHwRuleFail

Description

A create operation failed on ACL hardware table.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

`%IngressEgress%` ACL create operation failed in index `%ind%`.

Message Parameters

Name	Type
IngressEgress	String
ind	uInt

HAL.IPv4ACL.DelHwRuleFail

Description

A delete operation failed on ACL hardware table.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

`%IngressEgress%` ACL delete operation failed in index `%ind%`.

Message Parameters

Name	Type
IngressEgress	String
ind	uInt

HAL.IPv4ACL.LkupRuleFail

Description

There is no such index in the ACL rule database.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

Unable to get the rule based on index `%ind%`.

Message Parameters

Name	Type
ind	uInt

HAL.IPv4ACL.LkupInstFail

Description

There is no such instance in the ACL database.

Remedy

Disable and re-enable the slot and try again.

Severity

Error

Message Text

Unable to get the instance based on index vlan `%vlan%` port `%port%` precedence `%pre%` direction `%dir%`

Message Parameters

Name	Type
vlan	uInt
port	uInt
pre	uInt
dir	uInt

HAL.IPv4ACL.SyncSlotTmout

Description

PBR rules are installed asynchronously to card state machine. If I/O card becomes Operational before PBR rules are installed in the hardware, there can be traffic loss. So I/O Card state machine waits for maximum of 12 minutes for the rules to be installed in hardware before moving to the next state. This message indicates that I/O card state machine waited for 12 minutes and is moving to the next state. This can lead to traffic loss on those streams for which PBR rules are not yet installed.

Remedy

Though it is very unlikely but if this message is logged, there can be traffic loss on those streams for which PBR rules are not yet installed. If there is a traffic loss, it will stop after the PBR rules are installed in hardware. If customer experiences traffic loss, reduce the number of PBR ACLs used by the customer.

Severity

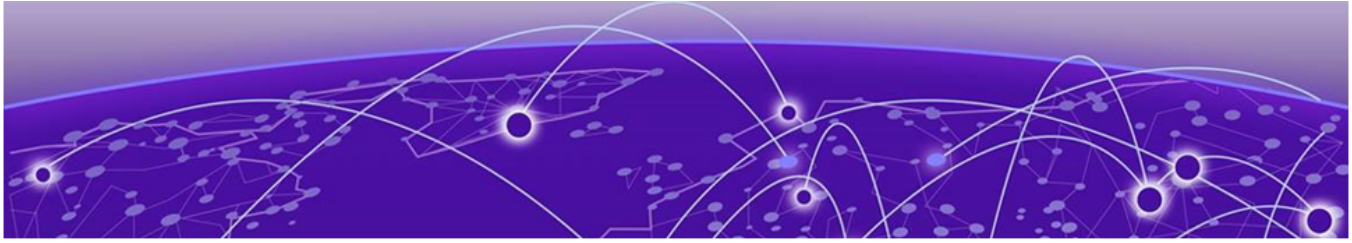
Warning

Message Text

ACL Sync timed out, card state machine for slot `%slot%` continues

Message Parameters

Name	Type
slot	uInt



HAL.IPv4Adj Messages

HAL.IPv4Adj.Error on page 1834
HAL.IPv4Adj.Warning on page 1835
HAL.IPv4Adj.Notice on page 1836
HAL.IPv4Adj.Info on page 1836
HAL.IPv4Adj.DebugSummary on page 1837
HAL.IPv4Adj.DebugVerbose on page 1838
HAL.IPv4Adj.DebugData on page 1838
HAL.IPv4Adj.L3TblFull on page 1839
HAL.IPv4Adj.RmtHostL3TblFull on page 1839
HAL.IPv4Adj.NHTblFull on page 1840
HAL.IPv4Adj.MapSlotUnitFail on page 1841
HAL.IPv4Adj.VLANAppDataNull on page 1841
HAL.IPv4Adj.AllocAdjEntFail on page 1842
HAL.IPv4Adj.HRCRtInv on page 1843
HAL.IPv4Adj.AdjEntNull on page 1843
HAL.IPv4Adj.L3TblFullEnt on page 1844
HAL.IPv4Adj.RmtHostL3TblFullEnt on page 1845
HAL.IPv4Adj.NHTblFullEnt on page 1846
HAL.IPv4Adj.BatchDebugSummary on page 1846
HAL.IPv4Adj.NHDebugSummary on page 1847
HAL.IPv4Adj.BatchInfo on page 1847

HAL.IPv4Adj.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
ipAddr	IP
msg	Printf

HAL.IPv4Adj.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
ipAddr	IP
msg	Printf

HAL.IPv4Adj.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

vrId `%vrId%` adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf

HAL.IPv4Adj.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

vrId `%vrId%` adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
vrId	uInt32
ipAddr	IP
msg	Printf

HAL.IPv4Adj.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

vrId `%vrId%` adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf

HAL.IPv4Adj.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

vrId `%vrId%` adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf

HAL.IPv4Adj.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

vrId `%vrId%` adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf

HAL.IPv4Adj.L3TblFull

Description

The attempt to add a local IPv4 unicast host to hardware only fails if the number of existing hosts exceeds the hardware capacity times two. Note that any IPv4 unicast packet without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv4 unicast local host forwarding entries trigger this condition.

Remedy

The CLI command "show iproute reserved-entries statistics" can be used to display the various IP resources currently in hardware, and the theoretical maximum for each hardware product type. Since the capacity has been exceeded, consider altering the network design, or using a different product type with higher capacity. An associated debug-summary severity message "HAL.IPv4Adj.L3TblFullEnt" can be enabled to view per-occurrence details including the IP address. In addition, "debug hal show ipv4adj" and "debug hal show ipv4adj slot N" can be used to determine which IP unicast forwarding entries were not added to hardware. Any entry in this display without the "S" Setup flag is not currently programmed in hardware.

Severity

Warning

Message Text

IPv4 unicast entry not added. Hardware L3 Table full.

HAL.IPv4Adj.RmtHostL3TblFull

Description

The number of IPv4 routes has exceeded the number of routes reserved in "configure iproute reserved-entries <num_routes_needed>", and there is unicast traffic to a remote host whose LPM route is not among the number reserved in hardware. Since this LPM route is not present in hardware, an attempt is made to add the individual remote host to hardware, and the attempt failed. This attempt on the remote host only

fails if the number of IPv4 unicast local hosts exceeds the hardware capacity times two. Note that any IPv4 unicast packet without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv4 unicast remote host forwarding entries trigger this condition.

Remedy

It is possible this condition occurred because too low a value was specified in "configure iproute reserved-entries <num_routes_needed>". The CLI command "show iproute reserved-entries statistics" can be used to display the various IP resources currently in hardware, and the theoretical maximum for each hardware product type. "show iproute summary" can be used to display the routes present in software.

Severity

Warning

Message Text

IPv4 unicast remote host entry not added. Hardware L3 Table full.

HAL.IPv4Adj.NHTblFull

Description

The hardware Next Hop Table full, and an IPv4 unicast entry could not be added. The Next Hop table is shared by IPv4 and IPv6 unicast host entries. Any IPv4 unicast packet without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv4 unicast host forwarding entries trigger this condition.

Remedy

The command "show iproute reserved-entries statistics" shows hardware table utilization, including counts of IPv4 and IPv6 unicast hosts. An associated debug-summary severity message "HAL.IPv4Adj.NHTblFullEnt" can be enabled to view per-occurrence details including the IP address. In addition, "debug hal show ipv4adj" can be used to determine which IP unicast forwarding entries were not added to hardware. Any entry in this display without the "S" Setup flag is not currently programmed in hardware. Even an entry in this display with the "S" Setup flag may not be currently programmed in hardware on any BD8800 "e"-series I/O modules. Use the "debug hal show ipv4adj slot N" on such a module, and again look for the "S" Setup flag.

Severity

Warning

Message Text

IPv4 unicast entry not added. Hardware Next Hop Table full.

HAL.IPv4Adj.MapSlotUnitFail

Description

The mapping of local slot/unit to global unit failed. It could happen during add/delete/update/validate/invalidate. Please refer to the error message to see when the failure occured. This should never happen during normal operation.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

vrId `%vrId%` adj `%ipAddr%`: unable to get unit number for slot `%slotNo%` to `%msg%`.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
slotNo	uInt32
msg	Printf

HAL.IPv4Adj.VLANAppDataNull

Description

The vlan interface didn't have the hardware specific information.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

vrId `%vrId%` adj `%ipAddr%`: No appSpecificPtr to add IP Adjacency - MAC `%mac%` on VLAN `%vlan%`.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
mac	MAC
vlan	VLAN-tag

HAL.IPv4Adj.AllocAdjEntFail

Description

The allocation of adjacency entry failed. A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem is due to the failure to allocate an internal system resource.

Remedy

Indicates that the system is running low on memory. Please contact Customer Service to report this error.

Severity

Error

Message Text

vrId `%vrId%` adj `%ipAddr%`: No memory for IP Adjacency VLAN ID `%vlanId%` MAC `%mac%`.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

Name	Type
vlanId	VLAN-tag
mac	MAC

HAL.IPv4Adj.HRCRtInv

Description

The host information passed during an adjacency creation was invalid. The system or the network in general may not be functioning as expected.

Remedy

This indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Host Route Cache (HRC) route is not valid during sync of slot `%slotNo%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
slotNo	uInt32

HAL.IPv4Adj.AdjEntNull

Description

A NULL new adjacency was passed to a call to update adjacency information. The system or the network in general may not be functioning as expected.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: adj entry is NULL

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

HAL.IPv4Adj.L3TblFullEnt

Description

A hash bucket in the L3 table has been exceeded and the specified IPv4 unicast address could not be added to the hardware. The L3 table is shared by IPv4 multicast and IPv4 and IPv6 unicast host entries. IPv4 unicast packets to the specified address will be slowpath forwarded.

Remedy

"debug hal show forwarding distributions" can be used to view hash bucket distributions for the available hashing algorithms. "show forwarding configuration" will display the configured and currently running hash algorithm. In order to change the algorithm, use "configure forwarding hash-algorithm [crc16 | crc32]". A system reboot is required for this command to take effect.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 unicast entry `%ipAddr%` not added. Hardware L3 Table full. `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf

HAL.IPv4Adj.RmtHostL3TblFullEnt

Description

A hash bucket in the L3 table has been exceeded and the specified IPv4 unicast remote host address could not be added to the hardware. The L3 table is shared by IPv4 multicast and IPv4 and IPv6 unicast host entries. IPv4 unicast packets to the specified address will be slowpath forwarded.

Remedy

"debug hal show forwarding distributions" can be used to view hash bucket distributions for the available hashing algorithms. "show forwarding configuration" will display the configured and currently running hash algorithm. In order to change the algorithm, use "configure forwarding hash-algorithm [crc16 | crc32]". A system reboot is required for this command to take effect.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 unicast remote host entry `%ipAddr%` not added. Hardware L3 Table full. `%msg%`

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP
msg	Printf

HAL.IPv4Adj.NHTblFullEnt

Description

The hardware Next Hop Table full, and an IPv4 unicast entry could not be added. The Next Hop table is shared by IPv4 and IPv6 unicast host entries. IPv4 unicast packets to the specified address will be slowpath forwarded.

Remedy

The command "show iproute reserved-entries statistics" shows hardware table utilization, including counts of IPv4 and IPv6 unicast hosts.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 unicast entry `%ipAddr%` not added. Hardware Next Hop Table full.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IP

HAL.IPv4Adj.BatchDebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

HAL.IPv4Adj.NHDebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

adj `%ipAddr%`: `%msg%`

Message Parameters

Name	Type
ipAddr	IP
msg	Printf

HAL.IPv4Adj.BatchInfo

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

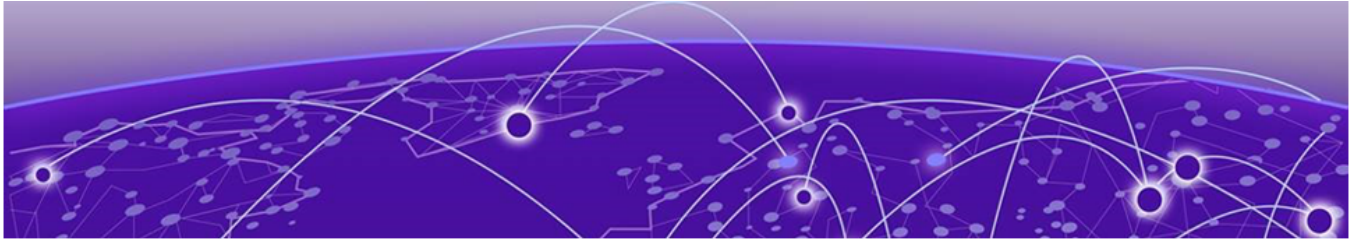
Info

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf



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HAL.IPv4FIB.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

vrId `%vrId%` dest `%destAddr%:%maskLen%` nexthop `%nexthop%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

HAL.IPv4FIB.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` dest `%destAddr%:%maskLen%` nexthop `%nexthop%: %msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

HAL.IPv4FIB.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

vrId `%vrId%` dest `%destAddr%:%maskLen%` nexthop `%nexthop% : %msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen

Name	Type
nexthop	IP
msg	Printf

HAL.IPv4FIB.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

vrId `%vrId%` dest `%destAddr%`:`%maskLen%` nexthop `%nexthop%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

HAL.IPv4FIB.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

vrId `%vrId%` dest `%destAddr%:%maskLen%` nexthop `%nexthop%` : `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

HAL.IPv4FIB.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

vrId `%vrId%` dest `%destAddr%:%maskLen%` nexthop `%nexthop%` : `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

HAL.IPv4FIB.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

vrId `%vrId%` dest `%destAddr%`:`%maskLen%` nexthop `%nexthop%` : `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	Printf

HAL.IPv4FIB.LPMTblFull

Description

The hardware Longest Prefix Match table has been exceeded and at least one IPv4 unicast route entry could not be added to the hardware. The LPM table is shared

by IPv4 and IPv6 route entries. The routes with the longest subnet mask lengths are maintained in the LPM table. Any IPv4 unicast packet to a destination not present in either the L3 host forwarding table or the LPM routing table will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv4 unicast route entries trigger this condition.

Remedy

An associated debug-summary severity message "HAL.IPv4FIB.LPMTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv4fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all BD8800 I/O modules or SummitStack nodes. Use the "debug hal show ipv4fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag.

Severity

Info

Message Text

IPv4 route not added to hardware. Hardware LPM Table full.

HAL.IPv4FIB.ECMPTblFull

Description

The hardware Equal-Cost Multi-Path table has been exceeded and at least one set of IPv4 unicast ECMP routes could not be added to the hardware. When this occurs, a single, non-ECMP route will remain in the LPM table in hardware. This message will be logged at most 1 time per hour when new sets of IPv4 unicast ECMP routes trigger this condition.

Remedy

An associated debug-summary severity message "HAL.IPv4FIB.ECMPTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv4fib" can be used to determine which IP unicast route entries were not added to hardware as ECMP routes. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. The "M" Multipath flag indicates the route is ECMP. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all BD8800 I/O modules or SummitStack nodes. Use the "debug hal show ipv4fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag and "M" Multipath flags.

Severity

Info

Message Text

IPv4 ECMP route not added. Hardware ECMP Table full.

HAL.IPv4FIB.ECMPTblFullEntNoVR

Description

The hardware Equal-Cost Multi-Path table has been exceeded and the specified route in the set of IPv4 unicast ECMP routes could not be added to the hardware. When this occurs, a single, non-ECMP route in the set will remain in the LPM table in hardware.

Remedy

"debug hal show ipv4fib" can be used to determine which IP unicast route entries were not added to hardware as ECMP routes. Any entry in this display without the "S" Setup flag is not currently programmed in hardware. The "M" Multipath flag indicates the route is ECMP. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all BD8800 I/O modules or SummitStack nodes. Use the "debug hal show ipv4fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag and "M" Multipath flags.

Severity

Debug-Summary

Message Text

IPv4 ECMP route `%destAddr%:%maskLen%` nexthop `%nexthop%` not added. Hardware ECMP Table full. `%msg%`

Message Parameters

Name	Type
destAddr	IP
maskLen	IPmasklen
nexthop	IP
msg	String

HAL.IPv4FIB.uRPFECMPTblFull

Description

The hardware uRPF Equal-Cost Multi-Path next hop group table has been exceeded and at least one next hop could not be added to the hardware. When this occurs the uRPF lookups for the specific ECMP next hop group memeber will not pass, causing packets to be dropped.

Remedy

This happens due to the maximum number of entries being exceeded. Verify in the routing table the number of next hop entries do not exceed the maximum number of uRPF next hops supported.

Severity

Debug-Summary

Message Text

uRPF IPv4 ECMP next hop entry `%nh%` for VLAN `%vl%` not added, hardware uRPF ECMP next hop table full.

Message Parameters

Name	Type
nh	xInt32
vl	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.IPv4FIB.LPMTblFullEnt

Description

The hardware Longest Prefix Match table has been exceeded and the specified IPv4 unicast route entry could not be added to the hardware. The LPM table is shared by IPv4 and IPv6 route entries. The routes with the longest subnet mask lengths are maintained in the LPM table. Any IPv4 unicast packet to a destination not present in either the L3 host forwarding table or the LPM routing table will be slowpath forwarded.

Remedy

"debug hal show ipv4fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all BD8800 I/O modules or SummitStack nodes. Use the "debug hal show ipv4fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 route `%destAddr%:%maskLen%` nexthop `%nexthop%` not added to hardware. Hardware LPM Table full.

Message Parameters

Name	Type
vrId	VRID
destAddr	IP
maskLen	IPmasklen
nexthop	IP

HAL.IPv4FIB.ECMPTblFullEnt

Description

The hardware Equal-Cost Multi-Path table has been exceeded and the specified route in the set of IPv4 unicast ECMP routes could not be added to the hardware. When this occurs, a single, non-ECMP route in the set will remain in the LPM table in hardware.

Remedy

"debug hal show ipv4fib" can be used to determine which IP unicast route entries were not added to hardware as ECMP routes. Any entry in this display without the "S" Setup flag is not currently programmed in hardware. The "M" Multipath flag indicates the route is ECMP. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all BD8800 I/O modules or SummitStack nodes. Use the "debug hal show ipv4fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag and "M" Multipath flags.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 ECMP route `%destAddr%:%maskLen%` nexthop `%nexthop%` not added. Hardware ECMP Table full. `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	IP
maskLen	IPmasklen
nexthop	IP
msg	String

HAL.IPv4FIB.ECMPMaxGw

Description

The number of gateways for this subnet exceeds the number specified in "configure iproute sharing max-gateways N". This route will not be placed in hardware, unless another route for this subnet using an existing gateways is first removed.

Remedy

Confirm the number shown for "Max Shared Gateways" in "show ipconfig" is the desired value. Modify the value using "configure iproute sharing max-gateways N".

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv4 ECMP route `%destAddr%:%maskLen%` nexthop `%nexthop%` not added. Configured max-gateways exceeded. `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIP
maskLen	IPmasklen
nexthop	IP
msg	String

HAL.IPv4FIB.BatchDebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

HAL.IPv4FIB.BatchInfo

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

HAL.IPv4FIB.RtDebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

HAL.IPv4FIB.BatchDebugVerbose

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

HAL.IPv4FIB.AllocBatchBufFail

Description

Unable to allocate memory for batch buffer.

Remedy

This indicates that the system is running short on memory. Please contact Customer Service to report this error.

Severity

Error

Message Text

ERROR - cannot allocate batch buffer: size `%size%`

Message Parameters

Name	Type
size	uInt32

HAL.IPv4FIB.StrtBatchOperFail

Description

A batch operation is used by MSM to send hardware programming data to I/O modules. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

Batch operation enabled but cannot start successfully.

HAL.IPv4FIB.ExpctBatchBuf

Description

A batch operation is used by MSM to send hardware programming data to I/O modules. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

Starting batch operation when already in progress, but no buffer present.

HAL.IPv4FIB.ExpctNoBatchBuf

Description

A batch operation is used by MSM to send hardware programming data to I/O modules. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

Starting batch operation, but buffer is already present with `%numEntries%` entries, discard.

Message Parameters

Name	Type
numEntries	uInt

HAL.IPv4FIB.FndShortInstlRtFail

Description

The system is trying to find the shortest mask len route to be deleted from hardware to make room for another route. It could not find the shortest mask len route. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

shorted installed route: len `%masklen%`, num `%num%`, not found

Message Parameters

Name	Type
masklen	uInt32
num	uInt32

HAL.IPv4FIB.FndLongUninstlRtFail

Description

The longest uninstalled route was not found. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

longest uninstalled route: len `%masklen%`, num `%num%`, not found

Message Parameters

Name	Type
masklen	uInt32
num	uInt32

HAL.IPv4FIB.ChkLPMShdwFail

Description

A check to see availability of free space in shadow table returned an error other than the table being full. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

DEFIP add uninstalled: check LPM shadow returned `%errorstr%` (`%rc%`)

Message Parameters

Name	Type
errorstr	String
rc	uInt32

HAL.IPv4FIB.LPMTblAlrdyEmpty

Description

During deletion of routes, the number of routes in LPM table should have been greater than zero. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

Number of IPv4 routes in LPM table is already 0.

HAL.IPv4FIB.StrtIPFDBMode

Description

This event indicates IP FDB mode has started for some hardware that is present and enabled in the system. For increased hardware forwarding, when the number of IPv4 routes exceeds a threshold (e.g. 25,000), all slots without an External LPM Table automatically transition from using LPM routing to forwarding of individual remote hosts. This latter mode is also known as IP Forwarding Database (IP FDB) Mode. Slots without an External LPM Table operating in IP FDB Mode will be indicated with a "d" flag in the output of "show iproute reserved-entries statistics", indicating that only "direct" routes are installed. The statistics output will also show the number of IPv4 Remote hosts. Note that hardware with an External LPM Table continues using LPM routing mode. Stopping IP FDB Mode occurs only when both of the following are true: (1) The number of IPv4 routes is less or equal to the threshold, and (2) No hardware without External LPM Table is present and enabled in the system. Stopping IP FDB Mode is indicated by event HAL.IPv4FIB.StopIPFDBMode.

Remedy

No remedy is necessary since slots can continue in IP FDB mode. Consider upgrading to hardware that has an External LPM Table to continue operating in LPM routing mode when more than this many IPv4 routes are present.

Severity

Notice

Message Text

Number of IPv4 routes exceeds `%routeThreshold%`, and some HW has changed from LPM to IP FDB Mode.

Message Parameters

Name	Type
routeThreshold	uInt

HAL.IPv4FIB.StopIPFDBMode

Description

This event indicates IP FDB mode has stopped, and all hardware is using LPM routing. Refer to event HAL.IPv4FIB.StrtIPFDBMode for further information. Stopping IP FDB Mode occurs only when both of the following are true: (1) The number of IPv4 routes is less or equal to the threshold, and (2) No hardware without External LPM Table is present and enabled in the system.

Remedy

No remedy is necessary since this is normal.

Severity

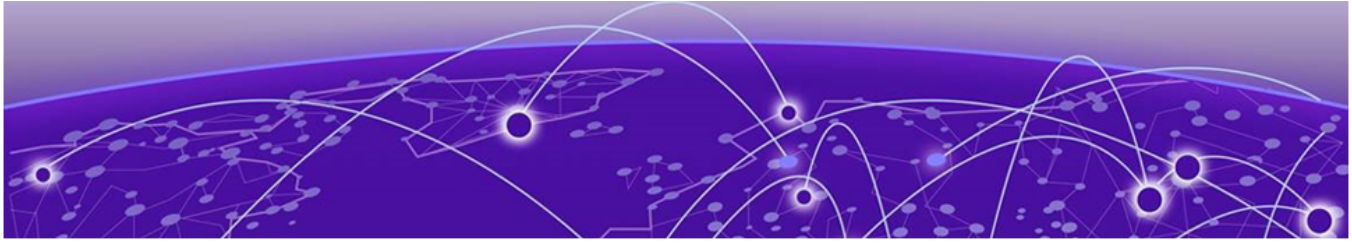
Notice

Message Text

Number of IPv4 routes is below `%routeThreshold%` and no active HW requires IP FDB Mode.

Message Parameters

Name	Type
routeThreshold	uInt



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HAL.IPv4Mc.DelFMEgrPortFail on page 1897
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HAL.IPv4Mc.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4Mc.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4Mc.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4Mc.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4Mc.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or

completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4Mc.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4Mc.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv4Mc.L3TblFull

Description

A hash bucket in the L3 table has been exceeded and at least one IPv4 multicast (S,G) forwarding entry could not be added to the hardware. The L3 table is shared by IPv4 multicast and IPv4 unicast host entries. Any (S,G) multicast streams without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour while new (S,G) forwarding entries trigger this condition.

Remedy

"debug hal show forwarding distributions" can be used to view hash bucket distributions for the available hashing algorithms. "show forwarding configuration" will display the configured and currently running hash algorithm. In order to change the algorithm, use "configure forwarding hash-algorithm [crc16 | crc32]". A system reboot is required for this command to take effect. An associated debug-summary level message "HAL.IPv4Mc.L3TblFullEnt" can be enabled to view per-occurrence details including (S,G) and vlan information. In addition, "debug hal show ipv4mc" can be used to determine which (S,G) forwarding entries were not added to hardware. Any entry in this display with "IPMC -1" is not currently programmed in hardware.

Severity

Error

Message Text

IPv4 multicast entry not added. Hardware L3 Table full.

HAL.IPv4Mc.GrpTblFull

Description

The IPv4 multicast group table has been exceeded and at least one multicast forwarding entry was not added in hardware. Any (S,G) multicast streams without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour while new (S,G) forwarding entries trigger this condition.

Remedy

An associated debug-summary level message "HAL.IPv4Mc.GrpTblFullEnt" can be enabled to view per-occurrence details including (S,G) and vlan information. In addition, "debug hal show ipv4mc" can be used to determine which (S,G) forwarding entries were not added to hardware. Any entry in this display with "IPMC -1" is not currently programmed in hardware.

Severity

Error

Message Text

IPv4 multicast entry not added. Hardware Group Table full.

HAL.IPv4Mc.GrpScale

Description

The IPv4 multicast group table has been exceeded and at least one multicast forwarding entry was not added in hardware. This system has cards which have varying IPv4 multicast scaling limits and the system limit has been reduced to that of the lowest limit.

Remedy

Removing cards with lower IPv4 multicast scaling limits can increase the system limit. In addition, "debug hal show ipv4mc" can be used to determine which (S,G) forwarding

entries were not added to hardware. Any entry in this display with "IPMC -1" is not currently programmed in hardware.

Severity

Info

Message Text

IPv4 multicast scaling reduced to the lowest supported limit of the currently present cards.

HAL.IPv4Mc.FwdModeChg

Description

The IPv4 multicast forwarding mode has been changed which indicates that all subsequent hardware forwarding entries will use the new mode. As part of this change all IP multicast cache entries will have been flushed.

Remedy

This is an informational message with no remedy.

Severity

Info

Message Text

The IPv4 multicast forwarding mode changed to `%newMode%`.

Message Parameters

Name	Type
newMode	String

HAL.IPv4Mc.CopyIPMCEntry

Description

A port subscription or port leave operation has caused this IP multicast FDB entry to split from a previously used common IP multicast group table entry. As a result, this message indicates that the specified IP multicast group table entry has been copied and will be used by this entry moving forward.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`) -> Copy IPMC `%oldIPMCGroupIndex%` to `%newIPMCGroupIndex%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
oldIPMCGroupIndex	uInt32
newIPMCGroupIndex	uInt32

HAL.IPv4Mc.DelIPMCGroupOnly

Description

A port subscription or port leave operation has caused this IP multicast FDB entry to join a different IP multicast group table entry. As a result, this message indicates that the specified IP multicast group table entry has been deleted from hardware but the IP multicast FDB entry (source IP address, group IP address, vlan) remains programmed.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Delete IPMC only

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32

HAL.IPv4Mc.SetIPMCEntry

Description

A port subscription or port leave operation has caused this IP multicast FDB entry to join a different IP multicast group table entry. As a result, this message indicates that the specified IP multicast entry will start using the new IP multicast group table entry specified.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%oldIPMCGroupIndex%`) -> Set IPMC `%newIPMCGroupIndex%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
oldIPMCGroupIndex	uInt32
newIPMCGroupIndex	uInt32

HAL.IPv4Mc.DelIPMCEntry

Description

The specific IP multicast FDB entry has been deleted from hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Delete

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32

HAL.IPv4Mc.AddIPMCEntry

Description

The specific IP multicast FDB entry has been added to hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Add

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32

HAL.IPv4Mc.AddIngrPort

Description

The specified port was added as ingress for the IP multicast group to be used for switch fabric management.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%fabricMgr%`: add ingress port `%slot%:%port%` for IPMC `%IPMCGroupIndex%`

Message Parameters

Name	Type
fabricMgr	String
slot	uInt32
port	uInt32
IPMCGroupIndex	uInt32

HAL.IPv4Mc.AddEgrPort

Description

The specified port was added as egress for the IP multicast group to be used for switch fabric management.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%fabricMgr%`: add egress port `%slot%:%port%` for IPMC `%IPMCGroupIndex%`

Message Parameters

Name	Type
fabricMgr	String
slot	uInt32
port	uInt32
IPMCGroupIndex	uInt32

HAL.IPv4Mc.SlotSnd

Description

A batch of IPMC operations was sent to the specified slot number.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%numBatch%` batched IPMC operations send to slot `%slot%`

Message Parameters

Name	Type
numBatch	uInt32
slot	uInt32

HAL.IPv4Mc.PndingChkptSnd

Description

Pending IPMC checkpoint operations were sent to the backup.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%numPending%` IPMC checkpoint operations sent to the backup

Message Parameters

Name	Type
numPending	uInt32

HAL.IPv4Mc.ChkptIPMC

Description

The IP multicast FDB entry has been checkpointed to the backup node.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

Checkpoint IPMC entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanInstance%`)

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanInstance	VLAN-tag

HAL.IPv4Mc.DelL2Port

Description

A layer-2 port has been removed from the IP multicast entry in hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Del L2 `%slot%`:`%port%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32

HAL.IPv4Mc.AddL2Port

Description

A layer-2 port has been added to the IP multicast entry in hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Add L2 `%slot%:%port%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32

HAL.IPv4Mc.DelL3Port

Description

A layer-3 port has been removed from the IP multicast entry in hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Del L3 p,v=`%slot%`:`%port%`,`%egressVlanId%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32
egressVlanId	VLAN-tag

HAL.IPv4Mc.AddL3Port

Description

A layer-3 port has been added to the IP multicast entry in hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Add L3 p,v=`%slot%`:`%port%`,`%egressVlanId%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN

Name	Type
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32
egressVlanId	VLAN-tag

HAL.IPv4Mc.DelL3PortBit

Description

All of the layer-3 vlans have been removed from this port so the L3 port was removed from the IP multicast group forwarding bitmap.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Del L3 `%slot%`:`%port%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32

HAL.IPv4Mc.DelIngrPort

Description

The specified port was deleted as ingress for the IP multicast group to be used for switch fabric management.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%fabricMgr%`: del ingress port `%slot%`:`%port%` for IPMC `%IPMCGroupIndex%`

Message Parameters

Name	Type
fabricMgr	String
slot	uInt32
port	uInt32
IPMCGroupIndex	uInt32

HAL.IPv4Mc.DelEgrPort

Description

The specified port was deleted as egress for the IP multicast group to be used for switch fabric management.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%fabricMgr%`: del egress port `%slot%:%port%` for IPMC `%IPMCGroupIndex%`

Message Parameters

Name	Type
fabricMgr	String
slot	uInt32
port	uInt32
IPMCGroupIndex	uInt32

HAL.IPv4Mc.SlotSyncBegin

Description

A newly inserted or rebooted card has begun IP multicast forwarding database synchronization.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

Begin IP multicast synchronization to slot `%slot%`

Message Parameters

Name	Type
slot	uInt32

HAL.IPv4Mc.SlotSyncEnd

Description

A newly inserted or rebooted card has finished IP multicast forwarding database synchronization.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

End IP multicast synchronization to slot `%slot%`

Message Parameters

Name	Type
slot	uInt32

HAL.IPv4Mc.BkupSync

Description

The master node is synchronizing the IP multicast database to the backup node.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

Bulk IP multicast synchronization to backup node

HAL.IPv4Mc.FailovrSync

Description

Post MSM failover IP multicast synchronization in progress.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

Post failover IP multicast synchronization

HAL.IPv4Mc.CleanupSlot

Description

Cleanup any IP multicast data structures associated with the specified slot. This slot is coming down.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

Cleanup slot `%slot%` for IP multicast

Message Parameters

Name	Type
slot	uInt32

HAL.IPv4Mc.AddVlan

Description

Handle vlan membership addition within the IP multicast module.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

IP multicast processing port `%slot%:%port%` addition to vlan `%vlanId%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vlanId	VLAN-tag

HAL.IPv4Mc.DelVlan

Description

Handle vlan membership deletion within the IP multicast module.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

IP multicast processing port `%slot%:%port%` deletion from vlan `%vlanId%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vlanId	VLAN-tag

HAL.IPv4Mc.UnclmCacheFree

Description

A hitless failover has occurred and any IP multicast database entries which were deleted after the failover were saved so that re-learned entries can use the same IP multicast table entry for faster convergence. This message indicates that after waiting

some time the specified entry was released from this temporary database since it was freed since the failover but not yet relearned.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

Free unclaimed IPv4Mc HFO cache (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlanInst `%vlanInstance%`,IPMC `%IPMCGroupIndex%`)

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanInstance	uInt32
IPMCGroupIndex	uInt32

HAL.IPv4Mc.CompressModeChg

Description

The IP multicast group table compression feature configuration changed as is reflected by the newMode specification.

Remedy

This is an informational message with no remedy.

Severity

Info

Message Text

The IPv4 multicast compression mode changed to `%newMode%`.

Message Parameters

Name	Type
newMode	String

HAL.IPv4Mc.SuggestCompress

Description

This message is displayed one-time per system boot when HAL.IPv4Mc.GrpTblFull is hit and IP multicast compression is disabled as a hint to the user that this feature may improve or alleviate the current scaling limitation.

Remedy

This is an informational message with no remedy.

Severity

Info

Message Text

IP multicast group compression may improve IP multicast group table scaling when multiple IPMC forwarding entries have common egress lists.

HAL.IPv4Mc.UnsuprtdChkpt

Description

This message indicates that an unsupported IP multicast checkpoint message has been received on the backup node. This can happen when 2 different software versions are communicating which each support a different checkpoint message version. An example of this is EXOS 12.1 (or earlier) and EXOS 12.2 (or later).

Remedy

This is an informational message with no remedy.

Severity

Error

Message Text

Received unsupported IPv4Mc checkpoint message version `%versionNumber%`

Message Parameters

Name	Type
versionNumber	uInt32

HAL.IPv4Mc.AddFMIngrPortFail

Description

The Fabric Manager failed to add Ingress port for an IPMC group. The system is not functioning as expected.The problem may be related to the failure to allocate an internal resource.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

Fabric Manager failed to add ingress `%slot%:%port%` to s,G,vr `%sourceIpAddress%,%groupIpAddress%` `%vrId%` IPMC `%IPMCGroupIndex%`, rv=`%errorCode%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
IPMCGroupIndex	uInt32
errorCode	uInt32

HAL.IPv4Mc.DelFMIngrPortFail

Description

The Fabric Manager failed to delete Ingress port for an IPMC group. The system is not functioning as expected.The problem may be related to the failure to allocate an internal resource.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

Fabric Manager failed to delete old ingress `%slot%:%port%` from s,G,vr `%sourceIpAddress%,%groupIpAddress%` `%vrId%` IPMC `%IPMCGroupIndex%`, rv=`%errorCode%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
IPMCGroupIndex	uInt32
errorCode	uInt32

HAL.IPv4Mc.AddFMIPMCEntFail

Description

The Fabric Manager failed to add an IPMC entry. The system is not functioning as expected.The problem may be related to the failure to allocate an internal resource.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

Fabric Manager failed to add s,G,vr `%sourceIpAddress%`,`%groupIpAddress%`,`%vrId%` IPMC `%IPMCGroupIndex%` , rv=`%errorCode%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
IPMCGroupIndex	uInt32
errorCode	uInt32

HAL.IPv4Mc.DelFMIPMCEntFail

Description

The Fabric Manager failed to delete an IPMC entry. The system is not functioning as expected.The problem may be related to the failure to allocate an internal resource.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

Failed to release s,G,vr `%sourceIpAddress%` `%groupIpAddress%` `%vrId%` IPMC `%IPMCGroupIndex%` rv = `%errorCode%`.

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
IPMCGroupIndex	uInt32
errorCode	uInt32

HAL.IPv4Mc.DelFMEgrPortFail

Description

The Fabric Manager failed to delete Egress port for an IPMC group. The system is not functioning as expected.The problem may be related to the failure to allocate an internal resource.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

Fabric Manager failed to del `%slot%:%port%` from s,G,vr `%sourceIpAddress%,%groupIpAddress%` `%vrId%` IPMC `%IPMCGroupIndex%`, rv=`%errorCode%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
IPMCGroupIndex	uInt32
errorCode	uInt32

HAL.IPv4Mc.L3TblFullEnt

Description

A hash bucket in the L3 table has been exceeded and the specified IPv4 multicast (S,G) forwarding entry could not be added to the hardware. The L3 table is shared by IPv4 multicast and IPv4 unicast host entries. The specified (S,G) multicast stream will be slowpath forwarded.

Remedy

"debug hal show forwarding distributions" can be used to view hash bucket distributions for the available hashing algorithms. "show forwarding configuration" will display the configured and currently running hash algorithm. In order to change the algorithm, use "configure forwarding hash-algorithm [crc16 | crc32]". A system reboot is required for this command to take effect.

Severity

Debug-Summary

Message Text

IPv4 multicast entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%` vlan `%vlanId%` ipmcIndex `%ipmcIndex%`) not added. Hardware L3 Table full.

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	srcIPv4N
groupIpAddress	IPv4N
vlanId	VLAN-tag
ipmcIndex	uInt32

HAL.IPv4Mc.GrpTblFullEnt

Description

The IPv4 multicast group table has been exceeded and the specified IPv4 multicast (S,G) forwarding entry was not added in hardware. This (S,G) multicast stream will be slowpath forwarded.

Remedy

The remedy is to reduce the IPv4 multicast (S,G) entries required by this system.

Severity

Debug-Summary

Message Text

IPv4 multicast entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%` vlan `%vlanId%`) not added. Hardware Group Table full.

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag

HAL.IPv4Mc.DelPVLANCache

Description

This is only a debug message to understand code flow.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

`%function%` is called: to delete gaddr `%groupIpAddr%` saddr `%sourceIpAddr%` vr `%vrId%` iif `%iif%`

Message Parameters

Name	Type
function	String
vrId	VRID
sourceIpAddr	IPaddrN
groupIpAddr	IPaddrN
iif	uInt32

HAL.IPv4Mc.SendBatchFail

Description

This error occur while trying to flush batch buffer during addition of an IPMC entry to hardware .

Remedy

This indicates an unexpected error in the code. Please contact Customer Service to report this error

Severity

Info

Message Text

Batch MC Create a cache entry: Index `%Index%`, src `%sourceIpAddr%` dst `%groupIpAddr%` vr `%vrId%` vlanId `%vlanId%` failed.

Message Parameters

Name	Type
Index	uInt32
vrId	VRID
sourceIpAddr	IPaddrN
groupIpAddr	IPaddrN
vlanId	uInt32

HAL.IPv4Mc.UnrslvChkptEntFnd

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

PIB IPv4Mc unresolved checkpoint found for S,G,vr,vInst (`%sourceIpAddr%`,`%groupIpAddr%`,`%vrId%`,`%vlanId%`), IPMC `%Index%`.

Message Parameters

Name	Type
Index	uInt32
vrId	VRID
sourceIpAddr	IPaddrN
groupIpAddr	IPaddrN
vlanId	uInt32

HAL.IPv4Mc.UnrslvDelEntFnd

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

PIB IPv4Mc unresolved delete found for S,G,vr,vInst (`%sourceIpAddr%`,`%groupIpAddr%`,`%vrId%`,`%vlanId%`), IPMC `%Index%`.

Message Parameters

Name	Type
Index	uInt32
vrId	VRID
sourceIpAddr	IPaddrN
groupIpAddr	IPaddrN
vlanId	uInt32

HAL.IPv4Mc.L2McTblFull

Description

The Layer 2 multicast table has been exceeded and at least one multicast forwarding entry was not added in hardware. Any (Mac,Vlan) multicast streams without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour while new (Mac,Vlan) forwarding entries trigger this condition.

Remedy

An associated debug-summary level message "HAL.IPv4Mc.L2McTblFullEnt" can be enabled to view per-occurrence details including (Mac,Vlan) information. In addition, "debug hal show ipv4mc" can be used to determine which (S,G) forwarding entries were not added to hardware. Any entry in this display with "IPMC -1" is not currently programmed in hardware.

Severity

Error

Message Text

IPv4 Layer 2 multicast entry not added. Hardware Layer 2 Multicast Table full.

HAL.IPv4Mc.L2McTblFullEnt

Description

The Layer 2 Multicast table has been exceeded and the specified Layer 2 multicast (Mac,Vlan) forwarding entry was not added in hardware. This (Mac,Vlan) multicast stream will be slowpath forwarded.

Remedy

The remedy is to reduce the Layer 2 multicast (Mac,Vlan) entries required by this system.

Severity

Debug-Summary

Message Text

Layer 2 multicast entry (`%vrId%`, `%mcastMacAddress%`,vlan `%vlanId%`) not added. Hardware Layer 2 Multicast Table full.

Message Parameters

Name	Type
vrId	VRID
mcastMacAddress	MAC
vlanId	VLAN-tag

HAL.IPv4Mc.L2McScale

Description

The Layer 2 multicast table has been exceeded and at least one multicast forwarding entry was not added in hardware. This system has cards which have varying Layer 2 multicast scaling limits and the system limit has been reduced to that of the lowest limit.

Remedy

Removing cards with lower Layer 2 multicast scaling limits can increase the system limit. In addition, "debug hal show ipv4mc" can be used to determine which (S,G) forwarding entries were not added to hardware. Any entry in this display with "IPMC -1" is not currently programmed in hardware.

Severity

Info

Message Text

Layer 2 multicast scaling reduced to the lowest supported limit of the currently present cards.

HAL.IPv4Mc.SuggestL2McCompress

Description

This message is displayed one-time per system boot when HAL.IPv4Mc.L2McTblFull is hit and multicast compression is disabled as a hint to the user that this feature may improve or alleviate the current scaling limitation.

Remedy

This is an informational message with no remedy.

Severity

Info

Message Text

Layer 2 multicast compression may improve Layer 2 multicast table scaling when multiple IPMC forwarding entries have common egress lists.

HAL.IPv4Mc.L3McVPLAGMove

Description

A layer-3 IPMC multicast entry has been modified to take another LAG member port. In VPEX topologies, if the IPMC listener is on an extended port LAG, the h/w is programmed with one member port of the LAG. When that member port goes down, the entry is moved to another member port.

Remedy

This is an informational debug message so there is no remedy.

Severity

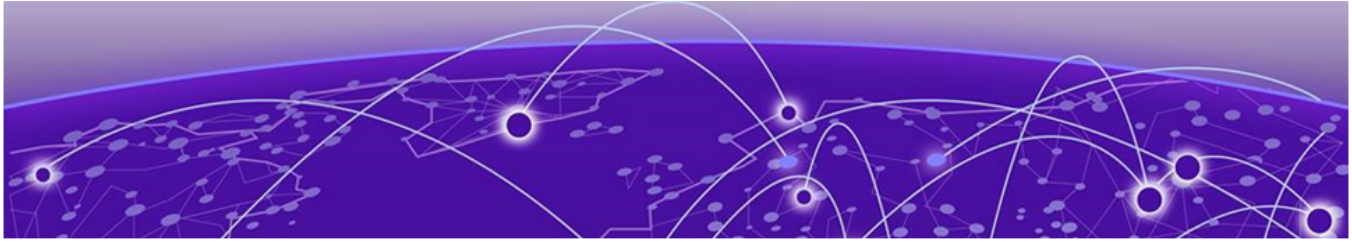
Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Vplag L3 p,v=`%slot%`:`%port%`,`%egressVlanId%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32
egressVlanId	VLAN-tag



HAL.IPv6Adj Messages

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HAL.IPv6Adj.Info on page 1908
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HAL.IPv6Adj.DebugData on page 1910
HAL.IPv6Adj.NHTblFull on page 1911
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HAL.IPv6Adj.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource on the card.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

adj `%ip6Addr%: %msg%`

Message Parameters

Name	Type
ip6Addr	IPv6
msg	Printf

HAL.IPv6Adj.Warning

Description

An abnormal condition has been detected on the card which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

adj `%ip6Addr%: %msg%`

Message Parameters

Name	Type
ip6Addr	IPv6
msg	Printf

HAL.IPv6Adj.Notice

Description

A normal but significant condition has been detected on the card, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

vrId `%vrId%` adj `%ip6Addr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ip6Addr	IPv6
msg	Printf

HAL.IPv6Adj.Info

Description

A normal but potentially interesting condition has been detected on the card, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

vrId `%vrId%` adj `%ip6Addr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ip6Addr	IPv6
msg	Printf

HAL.IPv6Adj.DebugSummary

Description

Error messages for IPv6 Adjacencies

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

vrId `%vrId%` adj `%ip6Addr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ip6Addr	IPv6
msg	Printf

HAL.IPv6Adj.DebugVerbose

Description

Error messages for IPv6 Adjacencies

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

vrId `%vrId%` adj `%ip6Addr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ip6Addr	IPv6
msg	Printf

HAL.IPv6Adj.DebugData

Description

Error messages for IPv6 Adjacencies

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

vrId `%vrId%` adj `%ip6Addr%`: `%msg%`

Message Parameters

Name	Type
vrId	VRID
ip6Addr	IPv6
msg	Printf

HAL.IPv6Adj.NHTblFull

Description

The hardware Next Hop Table full, and an IPv6 unicast entry could not be added. The Next Hop table is shared by IPv4 and IPv6 unicast host entries. Any IPv6 unicast packet without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv6 unicast host forwarding entries trigger this condition.

Remedy

The command "show iproute reserved-entries statistics" shows hardware table utilization, including counts of IPv4 and IPv6 unicast hosts. An associated debug-summary severity message "HAL.IPv6Adj.NHTblFullEnt" can be enabled to view per-occurrence details including the IP address. In addition, "debug hal show ipv6adj" can be used to determine which IP unicast forwarding entries were not added to hardware. Any entry in this display without the "S" Setup flag is not currently programmed in hardware. Even an entry in this display with the "S" Setup flag may not be currently programmed in hardware on any BD8800 "e"-series I/O modules. Use the "debug hal show ipv6adj slot N" on such a module, and again look for the "S" Setup flag.

Severity

Warning

Message Text

IPv6 unicast entry not added. Hardware Next Hop Table full.

HAL.IPv6Adj.MapSlotUnitFail

Description

The mapping of local slot/unit to global unit failed. It could happen during add/delete/update/validate/invalidate. Please refer to the error message to see when the failure occured. The system is not functioning as expected.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

vrId %vrId% adj %ipAddr%: unable to get unit number for slot %slotNo% to %msg%.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IPv6
slotNo	uInt32
msg	Printf

HAL.IPv6Adj.VLANAppDataNull

Description

The vlan interface didn't have the hardware specific information.The system is not functioning as expected.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

vrId %vrId% adj %ipAddr%: No appSpecificPtr to add Ip Adj - MAC %mac% on VLAN %vlan%.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IPv6
mac	MAC
vlan	VLAN-tag

HAL.IPv6Adj.AllocAdjEntFail

Description

Allocation of adjacency entry failed. It is interfering with the normal operation of the system. The system is not functioning as expected.

Remedy

System is running low on memory. Please contact Customer Service to report this error.

Severity

Error

Message Text

vrId `%vrId%` adj `%ipAddr%`: No memory for Ip Adj VLAN ID `%vlanId%` MAC `%mac%`.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IPv6
vlanId	VLAN-tag
mac	MAC

HAL.IPv6Adj.AddRtHwFail

Description

Some routes were not added to the hardware.The system is not functioning as expected.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Warning

Message Text

vrId `%vrId%` adj `%ipAddr%`: Add had mixed results. `%succeded%` succeeded, `%failed%` failed (rc `%errorString%`)

Message Parameters

Name	Type
vrId	VRID
ipAddr	IPv6
succeded	uInt32
failed	MAC
errorString	Printf

HAL.IPv6Adj.ExpctHRCNull

Description

A non-NULL host information was received when NULL host information was expected. A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

vrId `%vrId%` adj `%ipAddr%`: hostPtr is not NULL.

Message Parameters

Name	Type
vrId	VRID
ipAddr	IPv6

HAL.IPv6Adj.NHTblFullEnt

Description

The hardware Next Hop Table full, and an IPv6 unicast entry could not be added. The Next Hop table is shared by IPv4 and IPv6 unicast host entries. IPv6 unicast packets to the specified address will be slowpath forwarded.

Remedy

The command "show iproute reserved-entries statistics" shows hardware table utilization, including counts of IPv4 and IPv6 unicast hosts.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv6 unicast entry `%ip6Addr%` not added. Hardware Next Hop Table full.

Message Parameters

Name	Type
vrId	VRID
ip6Addr	IPv6

HAL.IPv6Adj.BatchDebugSummary

Description

Debug messages for IPv6 Adjacencies

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

HAL.IPv6Adj.BatchInfo

Description

Info messages for IPv6 Adjacencies

Remedy

No remedy is available.

Severity

Info

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

HAL.IPv6Adj.NHDebugSummary

Description

Debug messages for IPv6 Adjacencies

Remedy

No remedy is available.

Severity

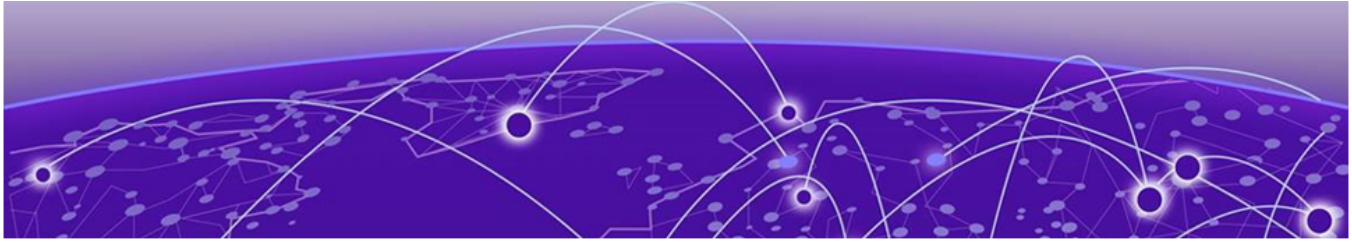
Debug-Summary

Message Text

adj `%ipv6Addr%` `%msg%`

Message Parameters

Name	Type
ipv6Addr	IPv6
msg	Printf



HAL.IPv6FIB Messages

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HAL.IPv6FIB.Info on page 1921
HAL.IPv6FIB.DebugSummary on page 1921
HAL.IPv6FIB.DebugVerbose on page 1922
HAL.IPv6FIB.DebugData on page 1923
HAL.IPv6FIB.LPMTblFull on page 1923
HAL.IPv6FIB.LPMTblFullEnt on page 1924
HAL.IPv6FIB.FIBEntNull on page 1925
HAL.IPv6FIB.BatchInfo on page 1925
HAL.IPv6FIB.BatchDebugSummary on page 1926
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HAL.IPv6FIB.StrtBatchOperFail on page 1927
HAL.IPv6FIB.ExpctBatchBuf on page 1927
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HAL.IPv6FIB.AllocBatchBufFail on page 1928
HAL.IPv6FIB.LongMskTblFull on page 1929
HAL.IPv6FIB.LongMskTblFullEnt on page 1930
HAL.IPv6FIB.LongMskTblNotAvail on page 1931
HAL.IPv6FIB.LongMskUsrVRNoSuprt on page 1931
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HAL.IPv6FIB.ECMPTblFullEnt on page 1932
HAL.IPv6FIB.ECMPMaxGw on page 1933

HAL.IPv6FIB.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource on the card.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%`: `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

HAL.IPv6FIB.Warning

Description

An abnormal condition has been detected on the card which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%`: `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

HAL.IPv6FIB.Notice

Description

A normal but significant condition has been detected on the card, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%` : `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

HAL.IPv6FIB.Info

Description

A normal but potentially interesting condition has been detected on the card, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%`: `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

HAL.IPv6FIB.DebugSummary

Description

Debug messages for IPv6 FIB

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%` : `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

HAL.IPv6FIB.DebugVerbose

Description

Debug messages for IPv6 FIB

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%` : `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

HAL.IPv6FIB.DebugData

Description

Debug messages for IPv6 FIB

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

vrId `%vrId%` dest `%destAddr%` / `%maskLen%` nexthop `%nexthop%` : `%msg%`

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

HAL.IPv6FIB.LPMTblFull

Description

The hardware Longest Prefix Match table has been exceeded and at least one IPv6 unicast route entry could not be added to the hardware. The routes with the longest subnet mask lengths are maintained in the LPM table. Any IPv6 unicast packet to a destination not present in the LPM routing table will be slowpath forwarded. This message will be logged at most 1 time per hour when new IPv6 unicast route entries trigger this condition.

Remedy

An associated debug-summary severity message "HAL.IPv6FIB.LPMTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F"

(Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all BD8800 I/O modules or SummitStack nodes. Use the "debug hal show ipv6fib slot N" on such a module or node, and look for the "S" (Setup in hardware) flag.

Severity

Notice

Message Text

IPv6 route not added to hardware. Hardware LPM Table full.

HAL.IPv6FIB.LPMTblFullEnt

Description

The hardware Longest Prefix Match table has been exceeded and the specified IPv6 unicast route entry could not be added to the hardware. The routes with the longest subnet mask lengths are maintained in the LPM table. Any IPv6 unicast packet to a destination not present in the LPM routing table will be slowpath forwarded.

Remedy

"debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all BD8800 I/O modules or SummitStack nodes. Use the "debug hal show ipv6fib slot N" on such a module or node, and look for the "S" (Setup in hardware) flag.

Severity

Debug-Summary

Message Text

IPv6 route vrId `%vrId%` `%destAddr%`/`%maskLen%` nexthop `%nexthop%` not added to hardware. Hardware LPM Table full.

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6

HAL.IPv6FIB.FIBEntNull

Description

The FIB entry passed is NULL.

Remedy

No remedy is available.

Severity

Error

Message Text

`%msg%` Passed NULL entry pointer.

Message Parameters

Name	Type
msg	Printf

HAL.IPv6FIB.BatchInfo

Description

A normal but significant condition has been detected on the card, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Notice

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

HAL.IPv6FIB.BatchDebugSummary

Description

Debug messages for IPv6 FIB Batch operaration.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

HAL.IPv6FIB.BatchDebugVerbose

Description

Debug messages for IPv6 FIB Batch operation.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

HAL.IPv6FIB.StrtBatchOperFail

Description

A batch operation is used by MSM to send hardware programming data to I/O modules. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

Batch operation enabled but cannot start successfully.

HAL.IPv6FIB.ExpctBatchBuf

Description

A batch operation is used by MSM to send hardware programming data to I/O modules. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

Starting batch operation when already in progress, but no buffer present.

HAL.IPv6FIB.ExpctNoBatchBuf

Description

A batch operation is used by MSM to send hardware programming data to I/O modules. An abnormal condition has been detected which may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Warning

Message Text

Starting batch operation, but buffer is already present with `%numEntries%` entries, discard.

Message Parameters

Name	Type
numEntries	uInt32

HAL.IPv6FIB.AllocBatchBufFail

Description

Unable to allocate memory for batch buffer.

Remedy

This indicates that the system is running short on memory. Please contact Customer Service to report this error.

Severity

Error

Message Text

ERROR - cannot allocate batch buffer: size `%size%`

Message Parameters

Name	Type
size	uInt32

HAL.IPv6FIB.LongMskTblFull

Description

The hardware table used to store IPv6 routes with a mask > 64 bits has been exceeded and at least one IPv6 unicast route entry could not be added to the hardware. Any IPv6 unicast packet to a destination not present in the HW table used for routes with > 64 bit masks may be incorrectly forwarded. This message will be logged at most 1 time per hour when new IPv6 unicast route entries trigger this condition.

Remedy

An associated debug-summary severity message "HAL.IPv6FIB.LongMskTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all BD8800 I/O modules or SummitStack nodes. Use the "debug hal show ipv6fib slot N" on such a module or node, and look for the "S" (Setup in hardware) flag. If IPv6 route compression is not enabled, enabling it will reduce the number of entries in the HW tables for routes with masks > 64 bits.

Severity

Warning

Message Text

IPv6 route with mask > 64 bits not added. Long Mask Hardware Table full. (Logged at most once per hour.)

HAL.IPv6FIB.LongMskTblFullEnt

Description

The hardware table used to store IPv6 routes with > 64 bit masks has been exceeded and the specified IPv6 unicast route entry could not be added to the hardware. The routes with the longest subnet mask lengths are maintained in the HW table. Any IPv6 unicast packet to a destination not present in the HW routing table may be incorrectly forwarded.

Remedy

"debug hal show ipv6fib" can be used to determine which IP unicast route entries with masks > 64 bits were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all BD8800 I/O modules or SummitStack nodes. Use the "debug hal show ipv6fib slot N" on such a module or node, and look for the "S" (Setup in hardware) flag. If IPv6 route compression is not enabled, enabling it will reduce the number of entries in the tables for routes with > 64 bit masks.

Severity

Debug-Summary

Message Text

IPv6 route vrId `%vrId%` `%destAddr%`/`%maskLen%` nexthop `%nexthop%` not added. Long Mask Hardware Table full.

Message Parameters

Name	Type
vrId	uInt32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6

HAL.IPv6FIB.LongMskTblNotAvail

Description

The hardware table used to store IPv6 routes with a mask > 64 bits has no available entries. Any IPv6 unicast packet to a destination that would have matched the route that is not present in the HW table may be incorrectly forwarded. This message will be logged at most 1 time per hour when new IPv6 unicast route entries trigger this condition.

Remedy

An associated debug-summary severity message "HAL.IPv6FIB.LongMskTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. The solution to this issue is to reduce the number of customer installed ACLs until there are HW entries available for the IPv6 routes with masks > 64 bits. In addition, "debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all BD8800 I/O modules or SummitStack nodes. Use the "debug hal show ipv6fib slot N" on such a module or node, and look for the "S" (Setup in hardware) flag.

Severity

Warning

Message Text

IPv6 route with > 64 bit mask not added. Hardware Table not available for IPv6 routes with Long Masks.

HAL.IPv6FIB.LongMskUsrVRNoSuprt

Description

The hardware table used to store IPv6 routes with > 64 bit masks does not support routes associated with user virtual routers. Any IPv6 unicast packet to a destination not present in the HW routing table may be incorrectly forwarded.

Remedy

If IPv6 routes with masks > 64 bits are required on user virtual routers, choose a BD8800 I/O module that supports this function.

Severity

Warning

Message Text

Installing IPv6 routes w/ mask > 64 bits with a user virtual router is not supported on G24Xc,G48Xc,G48Tc,10G4Xc,10G8Xc,S-G8Xc, S-10G1Xc and S-10G2Xc. These routes are not installed.

HAL.IPv6FIB.ECMPTblFull

Description

The hardware Equal-Cost Multi-Path table has been exceeded and at least one set of IPv6 unicast ECMP routes could not be added to the hardware. When this occurs, a single, non-ECMP route will remain in the LPM table in hardware. This message will be logged at most 1 time per hour when new sets of IPv6 unicast ECMP routes trigger this condition.

Remedy

An associated debug-summary severity message "HAL.IPv6FIB.ECMPTblFullEnt" can be enabled to view per-occurrence details including the subnet and next hop IP address. In addition, "debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware as ECMP routes. Any entry in this display without the "F" (Forwarded to hardware) flag is not currently programmed in hardware. The "M" Multipath flag indicates the route is ECMP. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all slots. Use the "debug hal show ipv6fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag and "M" Multipath flags.

Severity

Info

Message Text

IPv6 ECMP route not added. Hardware ECMP Table full.

HAL.IPv6FIB.ECMPTblFullEnt

Description

The hardware Equal-Cost Multi-Path table has been exceeded and the specified route in the set of IPv6 unicast ECMP routes could not be added to the hardware. When this occurs, a single, non-ECMP route in the set will remain in the LPM table in hardware.

Remedy

"debug hal show ipv6fib" can be used to determine which IP unicast route entries were not added to hardware as ECMP routes. Any entry in this display without the "S" Setup flag is not currently programmed in hardware. The "M" Multipath flag indicates the route is ECMP. Even an entry in this display with the "F" (Forwarded to hardware) flag may not be currently programmed in hardware on all slots. Use the "debug hal show ipv6fib slot N" on a module or node, and look for the "S" (Setup in hardware) flag and "M" Multipath flags.

Severity

Debug-Summary

Message Text

vrId `%vrId%` IPv6 ECMP route `%destAddr%`/`%maskLen%` nexthop `%nexthop%` not added. Hardware ECMP Table full. `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	String

HAL.IPv6FIB.ECMPMaxGw

Description

The number of gateways for this subnet exceeds the number specified in "configure iproute sharing max-gateways N". This route will not be placed in hardware, unless another route for this subnet using an existing gateways is first removed.

Remedy

Confirm the number shown for "Max Shared Gateways" in "show ipconfig" is the desired value. Modify the value using "configure iproute sharing max-gateways N".

Severity

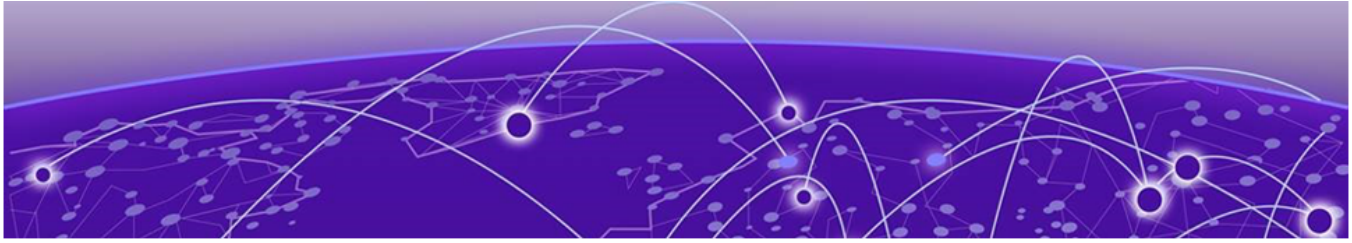
Debug-Summary

Message Text

vrId `%vrId%` IPv6 ECMP route `%destAddr%`/`%maskLen%` nexthop `%nexthop%` not added. Configured max-gateways exceeded. `%msg%`

Message Parameters

Name	Type
vrId	VRID
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	String



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HAL.IPv6Mc.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv6Mc.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv6Mc.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv6Mc.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv6Mc.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or

completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv6Mc.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv6Mc.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.IPv6Mc.L3TblFull

Description

A hash bucket in the L3 table has been exceeded and at least one IPv6 multicast (S,G) forwarding entry could not be added to the hardware. The L3 table is shared by IPv4/v6 multicast and IPv4/v6 unicast host entries. Any (S,G) multicast streams without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour while new (S,G) forwarding entries trigger this condition.

Remedy

"debug hal show forwarding distributions" can be used to view hash bucket distributions for the available hashing algorithms. "show forwarding configuration" will display the configured and currently running hash algorithm. In order to change the algorithm, use "configure forwarding hash-algorithm [crc16 | crc32]". A system reboot is required for this command to take effect. An associated debug-summary level message "HAL.IPv4Mc.L3TblFullEnt" can be enabled to view per-occurrence details including (S,G) and vlan information. In addition, "debug hal show ipv4mc" can be used to determine which (S,G) forwarding entries were not added to hardware. Any entry in this display with "IPMC -1" is not currently programmed in hardware.

Severity

Error

Message Text

IPv6 multicast entry not added. Hardware L3 Table full.

HAL.IPv6Mc.GrpTblFull

Description

The IPv6 multicast group table has been exceeded and at least one multicast forwarding entry was not added in hardware. Any (S,G) multicast streams without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour while new (S,G) forwarding entries trigger this condition.

Remedy

An associated debug-summary level message "HAL.IPv6Mc.GrpTblFullEnt" can be enabled to view per-occurrence details including (S,G) and vlan information. In addition, "debug hal show ipv6mc" can be used to determine which (S,G) forwarding entries were not added to hardware. Any entry in this display with "IPMC -1" is not currently programmed in hardware.

Severity

Error

Message Text

IPv6 multicast entry not added. Hardware Group Table full.

HAL.IPv6Mc.GrpScale

Description

The IPv6 multicast group table has been exceeded and at least one multicast forwarding entry was not added in hardware. This system has cards which have varying IPv6 multicast scaling limits and the system limit has been reduced to that of the lowest limit.

Remedy

Removing cards with lower IPv6 multicast scaling limits can increase the system limit. In addition, "debug hal show ipv6mc" can be used to determine which (S,G) forwarding

entries were not added to hardware. Any entry in this display with "IPMC -1" is not currently programmed in hardware.

Severity

Info

Message Text

IPv6 multicast scaling reduced to the lowest supported limit of the currently present cards.

HAL.IPv6Mc.FwdModeChg

Description

The IPv6 multicast forwarding mode has been changed which indicates that all subsequent hardware forwarding entries will use the new mode. As part of this change all IP multicast cache entries will have been flushed.

Remedy

This is an informational message with no remedy.

Severity

Info

Message Text

The IPv6 multicast forwarding mode changed to `%newMode%`.

Message Parameters

Name	Type
newMode	String

HAL.IPv6Mc.CopyIPMCEntry

Description

A port subscription or port leave operation has caused this IP multicast FDB entry to split from a previously used common IP multicast group table entry. As a result, this message indicates that the specified IP multicast group table entry has been copied and will be used by this entry moving forward.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`) -> Copy IPMC `%oldIPMCGroupIndex%` to `%newIPMCGroupIndex%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
oldIPMCGroupIndex	uInt32
newIPMCGroupIndex	uInt32

HAL.IPv6Mc.DelIPMCGroupOnly

Description

A port subscription or port leave operation has caused this IP multicast FDB entry to join a different IP multicast group table entry. As a result, this message indicates that the specified IP multicast group table entry has been deleted from hardware but the IP multicast FDB entry (source IP address, group IP address, vlan) remains programmed.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Delete IPMC only

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32

HAL.IPv6Mc.SetIPMCEntry

Description

A port subscription or port leave operation has caused this IP multicast FDB entry to join a different IP multicast group table entry. As a result, this message indicates that the specified IP multicast entry will start using the new IP multicast group table entry specified.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%oldIPMCGroupIndex%`) -> Set IPMC `%newIPMCGroupIndex%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
oldIPMCGroupIndex	uInt32
newIPMCGroupIndex	uInt32

HAL.IPv6Mc.DelIPMCEntry

Description

The specific IP multicast FDB entry has been deleted from hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Delete

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32

HAL.IPv6Mc.AddIPMCEntry

Description

The specific IP multicast FDB entry has been added to hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Add

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32

HAL.IPv6Mc.AddIngrPort

Description

The specified port was added as ingress for the IP multicast group to be used for switch fabric management.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%fabricMgr%`: add ingress port `%slot%:%port%` for IPMC `%IPMCGroupIndex%`

Message Parameters

Name	Type
fabricMgr	String
slot	uInt32
port	uInt32
IPMCGroupIndex	uInt32

HAL.IPv6Mc.AddEgrPort

Description

The specified port was added as egress for the IP multicast group to be used for switch fabric management.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%fabricMgr%`: add egress port `%slot%:%port%` for IPMC `%IPMCGroupIndex%`

Message Parameters

Name	Type
fabricMgr	String
slot	uInt32
port	uInt32
IPMCGroupIndex	uInt32

HAL.IPv6Mc.SlotSnd

Description

A batch of IPMC operations was sent to the specified slot number.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%numBatch%` batched IPMC operations send to slot `%slot%`

Message Parameters

Name	Type
numBatch	uInt32
slot	uInt32

HAL.IPv6Mc.PndingChkptSnd

Description

Pending IPMC checkpoint operations were sent to the backup.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%numPending%` IPMC checkpoint operations sent to the backup

Message Parameters

Name	Type
numPending	uInt32

HAL.IPv6Mc.ChkptIPMC

Description

The IP multicast FDB entry has been checkpointed to the backup node.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

Checkpoint IPMC entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanInstance%`)

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanInstance	VLAN-tag

HAL.IPv6Mc.DelL2Port

Description

A layer-2 port has been removed from the IP multicast entry in hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Del L2 `%slot%`:`%port%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32

HAL.IPv6Mc.AddL2Port

Description

A layer-2 port has been added to the IP multicast entry in hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Add L2 `%slot%:%port%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32

HAL.IPv6Mc.DelL3Port

Description

A layer-3 port has been removed from the IP multicast entry in hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Del L3 p,v=`%slot%`:`%port%`,`%egressVlanId%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32
egressVlanId	VLAN-tag

HAL.IPv6Mc.AddL3Port

Description

A layer-3 port has been added to the IP multicast entry in hardware.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Add L3 p,v=`%slot%`:`%port%`,`%egressVlanId%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN

Name	Type
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32
egressVlanId	VLAN-tag

HAL.IPv6Mc.DelL3PortBit

Description

All of the layer-3 vlans have been removed from this port so the L3 port was removed from the IP multicast group forwarding bitmap.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Del L3 `%slot%`:`%port%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32

HAL.IPv6Mc.DelIngrPort

Description

The specified port was deleted as ingress for the IP multicast group to be used for switch fabric management.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%fabricMgr%`: del ingress port `%slot%`:`%port%` for IPMC `%IPMCGroupIndex%`

Message Parameters

Name	Type
fabricMgr	String
slot	uInt32
port	uInt32
IPMCGroupIndex	uInt32

HAL.IPv6Mc.DelEgrPort

Description

The specified port was deleted as egress for the IP multicast group to be used for switch fabric management.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Data

Message Text

`%fabricMgr%`: del egress port `%slot%:%port%` for IPMC `%IPMCGroupIndex%`

Message Parameters

Name	Type
fabricMgr	String
slot	uInt32
port	uInt32
IPMCGroupIndex	uInt32

HAL.IPv6Mc.SlotSyncBegin

Description

A newly inserted or rebooted card has begun IP multicast forwarding database synchronization.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

Begin IP multicast synchronization to slot `%slot%`

Message Parameters

Name	Type
slot	uInt32

HAL.IPv6Mc.SlotSyncEnd

Description

A newly inserted or rebooted card has finished IP multicast forwarding database synchronization.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

End IP multicast synchronization to slot `%slot%`

Message Parameters

Name	Type
slot	uInt32

HAL.IPv6Mc.BkupSync

Description

The master node is synchronizing the IP multicast database to the backup node.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

Bulk IP multicast synchronization to backup node

HAL.IPv6Mc.FailovrSync

Description

Post MSM failover IP multicast synchronization in progress.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

Post failover IP multicast synchronization

HAL.IPv6Mc.CleanupSlot

Description

Cleanup any IP multicast data structures associated with the specified slot. This slot is coming down.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

Cleanup slot `%slot%` for IP multicast

Message Parameters

Name	Type
slot	uInt32

HAL.IPv6Mc.AddVlan

Description

Handle vlan membership addition within the IP multicast module.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

IP multicast processing port `%slot%:%port%` addition to vlan `%vlanId%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vlanId	VLAN-tag

HAL.IPv6Mc.DelVlan

Description

Handle vlan membership deletion within the IP multicast module.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Summary

Message Text

IP multicast processing port `%slot%:%port%` deletion from vlan `%vlanId%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vlanId	VLAN-tag

HAL.IPv6Mc.UnclmCacheFree

Description

A hitless failover has occurred and any IP multicast database entries which were deleted after the failover were saved so that re-learned entries can use the same IP multicast table entry for faster convergence. This message indicates that after waiting

some time the specified entry was released from this temporary database since it was freed since the failover but not yet relearned.

Remedy

This is an informational debug message so there is no remedy.

Severity

Debug-Verbose

Message Text

Free unclaimed IPv6Mc HFO cache (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlanInst `%vlanInstance%`,IPMC `%IPMCGroupIndex%`)

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanInstance	VLAN-tag
IPMCGroupIndex	uInt32

HAL.IPv6Mc.CompressModeChg

Description

The IP multicast group table compression feature configuration changed as is reflected by the newMode specification.

Remedy

This is an informational message with no remedy.

Severity

Info

Message Text

The IP multicast compression mode changed to `%newMode%`.

Message Parameters

Name	Type
newMode	String

HAL.IPv6Mc.SuggestCompress

Description

This message is displayed one-time per system boot when HAL.IPv6Mc.GrpTblFull is hit and IP multicast compression is disabled as a hint to the user that this feature may improve or alleviate the current scaling limitation.

Remedy

This is an informational message with no remedy.

Severity

Info

Message Text

IP multicast group compression may improve IP multicast group table scaling when multiple IPMC forwarding entries have common egress lists.

HAL.IPv6Mc.UnsuprtdChkpt

Description

This message indicates that an unsupported IP multicast checkpoint message has been received on the backup node. This can happen when 2 different software versions are communicating which each support a different checkpoint message version. An example of this is EXOS 12.1 (or earlier) and EXOS 12.2 (or later).

Remedy

This is an informational message with no remedy.

Severity

Error

Message Text

Received unsupported IPv6Mc checkpoint message version `%versionNumber%`

Message Parameters

Name	Type
versionNumber	uInt32

HAL.IPv6Mc.AddFMIngrPortFail

Description

The Fabric Manager failed to add Ingress port for an IPMC group. The system is not functioning as expected.The problem may be related to the failure to allocate an internal resource.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

Fabric Manager failed to add ingress `%slot%:%port%` to s,G,vr `%sourceIpAddress%,%groupIpAddress%` `%vrId%` IPMC `%IPMCGroupIndex%`, rv=`%errorCode%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
IPMCGroupIndex	uInt32
errorCode	uInt32

HAL.IPv6Mc.DelFMIngrPortFail

Description

The Fabric Manager failed to delete Ingress port for an IPMC group. The system is not functioning as expected.The problem may be related to the failure to allocate an internal resource.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

Fabric Manager failed to delete old ingress `%slot%:%port%` from s,G,vr `%sourceIpAddress%,%groupIpAddress%` `%vrId%` IPMC `%IPMCGroupIndex%`, rv=`%errorCode%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
IPMCGroupIndex	uInt32
errorCode	uInt32

HAL.IPv6Mc.AddFMIPMCEntFail

Description

The Fabric Manager failed to add an IPMC entry. The system is not functioning as expected.The problem may be related to the failure to allocate an internal resource.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

Fabric Manager failed to add s,G,vr `%sourceIpAddress%`,`%groupIpAddress%`,`%vrId%` IPMC `%IPMCGroupIndex%` , rv=`%errorCode%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
IPMCGroupIndex	uInt32
errorCode	uInt32

HAL.IPv6Mc.DelFMIPMCEntFail

Description

The Fabric Manager failed to delete an IPMC entry. The system is not functioning as expected.The problem may be related to the failure to allocate an internal resource.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

Failed to release s,G,vr `%sourceIpAddress%` `%groupIpAddress%` `%vrId%` IPMC `%IPMCGroupIndex%` rv = `%errorCode%`.

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
IPMCGroupIndex	uInt32
errorCode	uInt32

HAL.IPv6Mc.DelFMEgrPortFail

Description

The Fabric Manager failed to delete Egress port for an IPMC group. The system is not functioning as expected.The problem may be related to the failure to allocate an internal resource.

Remedy

Indicates an unexpected error in the code. Please contact Customer Service to report this error.

Severity

Error

Message Text

Fabric Manager failed to del `%slot%:%port%` from s,G,vr `%sourceIpAddress%,%groupIpAddress%` `%vrId%` IPMC `%IPMCGroupIndex%`, rv=`%errorCode%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
IPMCGroupIndex	uInt32
errorCode	uInt32

HAL.IPv6Mc.L3TblFullEnt

Description

A hash bucket in the L3 table has been exceeded and the specified IPv6 multicast (S,G) forwarding entry could not be added to the hardware. The L3 table is shared by IPv4/v6 multicast and IPv4/v6 unicast host entries. The specified (S,G) multicast stream will be slowpath forwarded.

Remedy

"debug hal show forwarding distributions" can be used to view hash bucket distributions for the available hashing algorithms. "show forwarding configuration" will display the configured and currently running hash algorithm. In order to change the algorithm, use "configure forwarding hash-algorithm [crc16 | crc32]". A system reboot is required for this command to take effect.

Severity

Debug-Summary

Message Text

IPv6 multicast entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%` vlan `%vlanId%` ipmcIndex `%ipmcIndex%`) not added. Hardware L3 Table full.

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	srcIPv6
groupIpAddress	IPv6
vlanId	VLAN-tag
ipmcIndex	uInt32

HAL.IPv6Mc.GrpTblFullEnt

Description

The IP multicast group table has been exceeded and the specified IP multicast (S,G) forwarding entry was not added in hardware. This (S,G) multicast stream will be slowpath forwarded.

Remedy

The remedy is to reduce the IP multicast (S,G) entries required by this system.

Severity

Debug-Summary

Message Text

IPv6 multicast entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%` vlan `%vlanId%`) not added. Hardware Group Table full.

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag

HAL.IPv6Mc.DelPVLANCache

Description

This is only a debug message to understand code flow.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

`%function%` is called: to delete gaddr `%groupIpAddr%` saddr `%sourceIpAddr%` vr `%vrId%` iif `%iif%`

Message Parameters

Name	Type
function	String
vrId	VRID
sourceIpAddr	IPaddrN
groupIpAddr	IPaddrN
iif	VLAN-tag

HAL.IPv6Mc.SendBatchFail

Description

This error occur while trying to flush batch buffer during addition of an IPMC entry to hardware .

Remedy

This indicates an unexpected error in the code. Please contact Customer Service to report this error

Severity

Info

Message Text

Batch MC Create a cache entry: Index `%Index%`, src `%sourceIpAddr%` dst `%groupIpAddr%` vr `%vrId%` vlanId `%vlanId%` failed.

Message Parameters

Name	Type
Index	uInt32
vrId	VRID
sourceIpAddr	IPaddrN
groupIpAddr	IPaddrN
vlanId	VLAN-tag

HAL.IPv6Mc.UnrslvChkptEntFnd

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

PIB IPv6Mc unresolved checkpoint found for S,G,vr,vInst (`%sourceIpAddr%`,`%groupIpAddr%`,`%vrId%`,`%vlanId%`), IPMC `%Index%`.

Message Parameters

Name	Type
Index	uInt32
vrId	VRID
sourceIpAddr	IPaddrN
groupIpAddr	IPaddrN
vlanId	VLAN-tag

HAL.IPv6Mc.UnrslvDelEntFnd

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

PIB IPv6Mc unresolved delete found for S,G,vr,vInst (`%sourceIpAddr%`,`%groupIpAddr%`,`%vrId%`,`%vlanId%`), IPMC `%Index%`.

Message Parameters

Name	Type
Index	uInt32
vrId	VRID
sourceIpAddr	IPaddrN
groupIpAddr	IPaddrN
vlanId	VLAN-tag

HAL.IPv6Mc.L2McTblFull

Description

The Layer 2 multicast table has been exceeded and at least one multicast forwarding entry was not added in hardware. Any (Mac,Vlan) multicast streams without an associated hardware forwarding entry will be slowpath forwarded. This message will be logged at most 1 time per hour while new (Mac,Vlan) forwarding entries trigger this condition.

Remedy

An associated debug-summary level message "HAL.IPv6Mc.L2McTblFullEnt" can be enabled to view per-occurrence details including (Mac,Vlan) information. In addition, "debug hal show ipv6mc" can be used to determine which (S,G) forwarding entries were not added to hardware. Any entry in this display with "L2MC -1" is not currently programmed in hardware.

Severity

Error

Message Text

Layer 2 multicast entry not added. Hardware Layer 2 Multicast Table full.

HAL.IPv6Mc.L2McTblFullEnt

Description

The Layer 2 Multicast table has been exceeded and the specified Layer 2 multicast (Mac,Vlan) forwarding entry was not added in hardware. This (Mac,Vlan) multicast stream will be slowpath forwarded.

Remedy

The remedy is to reduce the Layer 2 multicast (Mac,Vlan) entries required by this system.

Severity

Debug-Summary

Message Text

Layer 2 multicast entry (`%vrId%`, `%mcastMacAddress%`,vlan `%vlanId%`) not added. Hardware Layer 2 Multicast Table full.

Message Parameters

Name	Type
vrId	VRID
mcastMacAddress	MAC
vlanId	VLAN-tag

HAL.IPv6Mc.L2McScale

Description

The Layer 2 multicast table has been exceeded and at least one multicast forwarding entry was not added in hardware. This system has cards which have varying Layer 2 multicast scaling limits and the system limit has been reduced to that of the lowest limit.

Remedy

Removing cards with lower Layer 2 multicast scaling limits can increase the system limit. In addition, "debug hal show ipv6mc" can be used to determine which (S,G) forwarding entries were not added to hardware. Any entry in this display with "L2MC -1" is not currently programmed in hardware.

Severity

Info

Message Text

Layer 2 multicast scaling reduced to the lowest supported limit of the currently present cards.

HAL.IPv6Mc.SuggestL2McCompress

Description

This message is displayed one-time per system boot when HAL.IPv6Mc.L2McTblFull is hit and multicast compression is disabled as a hint to the user that this feature may improve or alleviate the current scaling limitation.

Remedy

This is an informational message with no remedy.

Severity

Info

Message Text

Layer 2 multicast compression may improve Layer 2 multicast table scaling when multiple L2MC forwarding entries have common egress lists.

HAL.IPv6Mc.L3McVPLAGMove

Description

A layer-3 IPMC multicast entry has been modified to take another LAG member port. In VPEX topologies, if the IPMC listener is on an extended port LAG, the h/w is programmed with one member port of the LAG. When that member port goes down, the entry is moved to another member port.

Remedy

This is an informational debug message so there is no remedy.

Severity

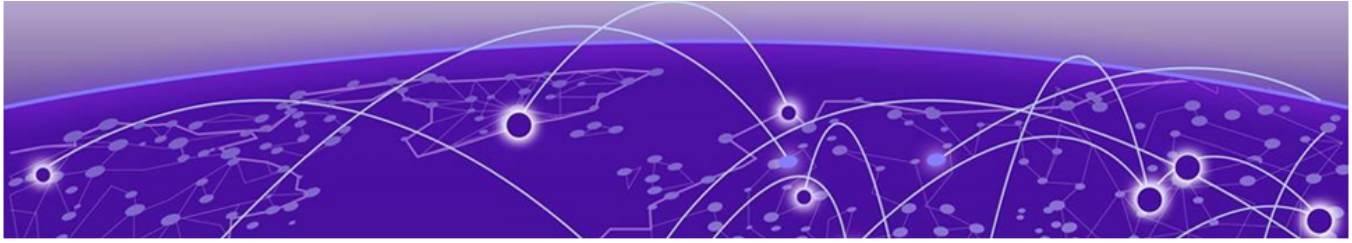
Debug-Verbose

Message Text

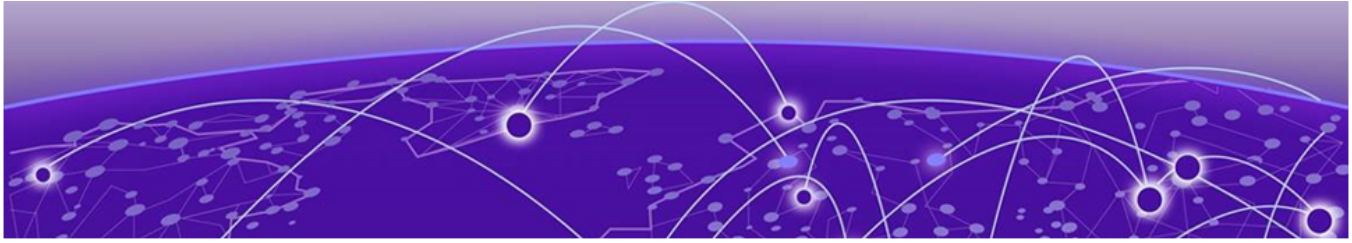
HW entry (`%sourceIpAddress%`,`%groupIpAddress%`,vr `%vrId%`,vlan `%vlanId%`,IPMC `%IPMCGroupIndex%`) -> Add L3 p,v=`%slot%`:`%port%`,`%egressVlanId%`

Message Parameters

Name	Type
vrId	VRID
sourceIpAddress	IPaddrN
groupIpAddress	IPaddrN
vlanId	VLAN-tag
IPMCGroupIndex	uInt32
slot	uInt32
port	uInt32
egressVlanId	VLAN-tag



HAL.IPv6Tunnel Messages



HAL.LAG Messages

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HAL.LAG.DebugVerbose on page 1974
HAL.LAG.Error on page 1974
HAL.LAG.AllocStrucFail on page 1975
HAL.LAG.CfgHashFail on page 1975
HAL.LAG.CfgFail on page 1976
HAL.LAG.CfgNoUcastHashFail on page 1977
HAL.LAG.Warning on page 1977

HAL.LAG.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.LAG.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.LAG.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.LAG.AllocStrucFail

Description

Allocating memory for an internal data structure for a link aggregation group failed.

Remedy

This usually happens when the system is running out memory. Run "show memory" command to further debug this problem. The problem may be resolved by deleting some configurations, retrying the operation or reboot.

Severity

Error

Message Text

Failed to allocate `%dataName%` for link aggregation group `%masterSlotPort%`

Message Parameters

Name	Type
dataName	String
masterSlotPort	SlotPort

HAL.LAG.CfgHashFail

Description

Configuring the hash algorithm for a link aggregation group failed on a chip of a card.

Remedy

This problem is usually due to a failure of accessing a hardware register. The hardware may be in a bad state. The error message gives the detail of the failure. The problem usually can be resolved by retrying the operation or power-cycling the switch or the card in the slot.

Severity

Error

Message Text

Failed to configure the hash algorithm for link aggregation group `%masterSlotPort%` on slot `%slot%` unit `%unit%`: `%errMsg%`

Message Parameters

Name	Type
masterSlotPort	SlotPort
slot	Slot
unit	sInt32
errMsg	String

HAL.LAG.CfgFail

Description

Configuring a link aggregation group failed in hardware on a chip of a card.

Remedy

This problem is usually due to a failure of accessing a hardware register. The hardware may be in a bad state. The error message gives the detail of the failure. The problem usually can be resolved by retrying the operation or power-cycling the switch or the card in the slot.

Severity

Error

Message Text

Failed to configure link aggregation group `%masterSlotPort%` on slot `%slot%` unit `%unit%`: `%errMsg%`

Message Parameters

Name	Type
masterSlotPort	SlotPort
slot	Slot

Name	Type
unit	sInt32
errMsg	String

HAL.LAG.CfgNoUcastHashFail

Description

Configuring the link aggregation group's hash algorithm for non-unicast packets failed in hardware on a chip of a card.

Remedy

This problem is usually due to a failure of accessing a hardware register. The hardware may be in a bad state. The error message gives the detail of the failure. The problem usually can be resolved by retrying the operation or power-cycling the switch or the card in the slot.

Severity

Error

Message Text

Failed to configure hash algorithm for non-unicast packets for link aggregation groups on slot `%slot%` unit `%unit%`: `%errMsg%`

Message Parameters

Name	Type
slot	Slot
unit	sInt32
errMsg	String

HAL.LAG.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

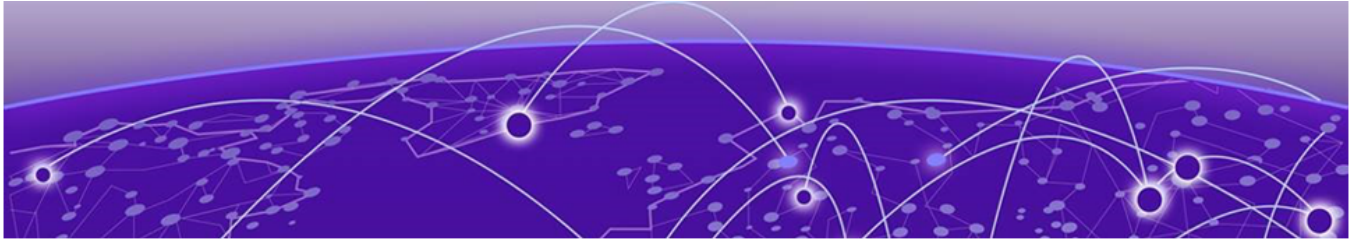
Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



HAL.MACsec Messages

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HAL.MACsec.DebugVerbose on page 1980
HAL.MACsec.DebugData on page 1981
HAL.MACsec.RecvUnkMsg on page 1981
HAL.MACsec.CfgPortHwFail on page 1982
HAL.MACsec.ReadPortHwFail on page 1983
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HAL.MACsec.HwCompatFail on page 1985
HAL.MACsec.SaveAndRebootRqr on page 1986
HAL.MACsec.RebootRqr on page 1986

HAL.MACsec.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.MACsec.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.MACsec.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.MACsec.RecvUnkMsg

Description

This message indicates that MACsec application has sent an unrecognized message to HAL.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Received unknown internal message type `%type%`

Message Parameters

Name	Type
type	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.MACsec.CfgPortHwFail

Description

This message indicates that configuration of MACsec HW has failed. The system is not functioning as expected.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Failed to configure MACsec HW: `%bcmUnit%` `%bcmPort%`: `%attemptedOperation%`: `%errMsg%`

Message Parameters

Name	Type
bcmUnit	uInt
bcmPort	uInt
errMsg	String
attemptedOperation	Printf

Applicable Platforms

- Summit family switches

HAL.MACsec.ReadPortHwFail

Description

This message indicates that read of MACsec HW has failed. The system is not functioning as expected.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Failed to read MACsec HW: `%bcmUnit%` `%bcmPort%`: `%attemptedOperation%`: `%errMsg%`

Message Parameters

Name	Type
bcmUnit	uInt
bcmPort	uInt
errMsg	String
attemptedOperation	Printf

Applicable Platforms

- Summit family switches

HAL.MACsec.PortInstNotFnd

Description

An internal function was called for a MACsec port that does not exist. This is an internal error.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Warning

Message Text

Could not find MACsec instance on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches

HAL.MACsec.PortAllocMemFail

Description

Memory for the displayed object could not be allocated. The system is not functioning as expected. MACsec cannot be enabled on this port. Possible object types: pib_macsec_data_s.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Critical

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure for port `%slotPort%`.

Message Parameters

Name	Type
obj	String
slotPort	SlotPort

Applicable Platforms

- Summit family switches

HAL.MACsec.HwCompatFail

Description

This is an unexpected condition involving the MACsec hardware.

Remedy

This is an unexpected condition that requires technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Warning

Message Text

The MACsec hardware on this device does not support the required features: `%errMsg%`

Message Parameters

Name	Type
errMsg	Printf

Applicable Platforms

- Summit family switches

HAL.MACsec.SaveAndRebootRqr

Description

A configuration load enabled MACsec hardware mode on the specified port. This changes will not take effect until after 'save configuration' and 'reboot' commands are executed.

Remedy

Check MACsec hardware mode status using 'show macsec' command before save and reboot

Severity

Error

Message Text

Save and reboot required for configured MACsec hardware mode to take effect on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches

HAL.MACsec.RebootRqr

Description

A configuration load enabled MACsec hardware mode on the specified port. This changes will not take effect until after 'reboot' command is executed.

Remedy

Check MACsec hardware mode status using 'show macsec' command before reboot

Severity

Error

Message Text

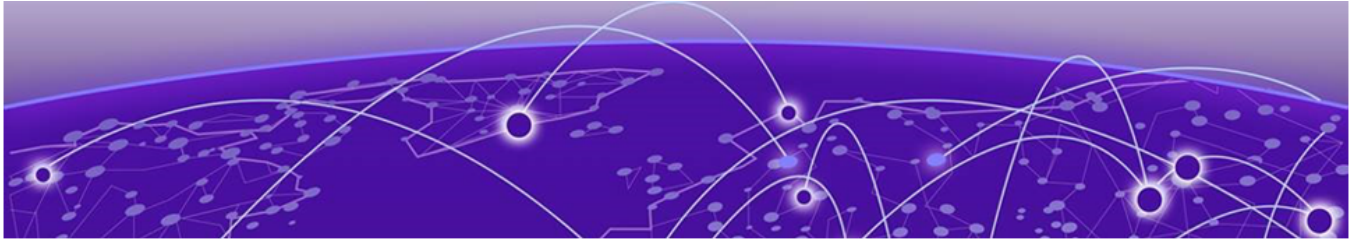
Reboot required for configured MACsec hardware mode to take effect on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches



HAL.Mirror Messages

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HAL.Mirror.DebugVerbose on page 1990
HAL.Mirror.UpdtTrunkVLANFiltFail on page 1991
HAL.Mirror.UpdtVLANFiltFail on page 1992
HAL.Mirror.CfgVLANPortFiltFail on page 1992
HAL.Mirror.InitCndtFail on page 1993
HAL.Mirror.CndtEventNull on page 1994
HAL.Mirror.MirTypeUnk on page 1994
HAL.Mirror.MirInfoInv on page 1995
HAL.Mirror.SendAsyncMsgFail on page 1995
HAL.Mirror.SendVLANPortMsgFail on page 1996
HAL.Mirror.AllocVLANPortMsgFail on page 1996
HAL.Mirror.AllocVLANMsgFail on page 1997
HAL.Mirror.AllocPortMsgFail on page 1998
HAL.Mirror.AllocEnblMsgFail on page 1998
HAL.Mirror.AllocVLANDisblFail on page 1999
HAL.Mirror.FndMirToPortFail on page 2000
HAL.Mirror.FndVLANFail on page 2000
HAL.Mirror.FndMirVLANFail on page 2001
HAL.Mirror.MirVLANHWDataNull on page 2001
HAL.Mirror.FndPortFail on page 2002
HAL.Mirror.FndPortSendMsgFail on page 2002
HAL.Mirror.FndVLANPortFail on page 2003
HAL.Mirror.FndVLANPortSendMsgFail on page 2003
HAL.Mirror.TrunkHWDataNull on page 2004
HAL.Mirror.RmtIPGwAvail on page 2004
HAL.Mirror.RmtIPGwUnk on page 2005
HAL.Mirror.RmtIPGwUnsuprt on page 2006

HAL.Mirror.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Mirror.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Mirror.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Mirror.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.Mirror.UpdtTrunkVLANFiltFail

Description

Added/deleted port from trunk on mirroring VLAN, but was unable to update mirroring filter. Error occurred when trying to send a message to I/O.

Remedy

Try to unconfigure the mirroring filter and reconfigure it.

Severity

Error

Message Text

Failed to update mirroring filter for port `%slot%:%port%` that was added/deleted from a trunk on a VLAN-based mirroring filter.

Message Parameters

Name	Type
slot	Slot
port	Port

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.UpdtVLANFiltFail

Description

Added/deleted port from an existing VLAN-based filter, but was unable to update mirroring filter. Error occurred when trying to send a message to I/O.

Remedy

Try to unconfigure the mirroring filter and reconfigure it.

Severity

Error

Message Text

Failed to update mirroring filter for port `%slot%:%port%` that was added/deleted from a mirroring VLAN.

Message Parameters

Name	Type
slot	Slot
port	Port

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.CfgVLANPortFiltFail

Description

Added/deleted virtual port mirroring filter. Error occurred when trying to send a message to I/O.

Remedy

Try to unconfigure the mirroring filter and reconfigure it.

Severity

Error

Message Text

Failed to configure mirroring filter for VLAN `%vlanId%` port `%slot%:%port%`.

Message Parameters

Name	Type
vlanId	VLAN-tag
slot	Slot
port	Port

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.InitCndtFail

Description

When trying to initialize mirroring conduits for the MM, the initialization process for adding range for mirroring pipe failed.

Remedy

Try to disable mirroring and re-enable it.

Severity

Error

Message Text

Failed in management module conduit initialization with error `%error%`.

Message Parameters

Name	Type
error	sInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.CndtEventNull

Description

The response handler for sending conduit message for mirroring returned a null conduit event.

Remedy

Try to disable mirroring and re-enable it.

Severity

Debug-Data

Message Text

Conduit response handler returned null conduit event.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.MirTypeUnk

Description

No such enable/disable mirroring type available when sending this conduit message.

Remedy

Try to disable mirroring and re-enable it.

Severity

Error

Message Text

Wrong enable/disable mirroring type `%type%`.

Message Parameters

Name	Type
type	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.MirInfoInv

Description

Before allocating memory to send conduit message, there was no information in data structure for enabling/disabling mirroring.

Remedy

Try to disable mirroring and re-enable it.

Severity

Debug-Data

Message Text

Sending conduit message to enable/disable mirroring failed because information for this was not available.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.SendAsyncMsgFail

Description

When trying to send asynchronous conduit message for mirroring, HAL conduit did not return OK.

Remedy

Try to disable mirroring and re-enable it.

Severity

Error

Message Text

Sending asynchronous conduit message failed with slotmask `%slotmask%` return code `%error%`.

Message Parameters

Name	Type
slotmask	sInt
error	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.SendVLANPortMsgFail

Description

When trying to send asynchronous conduit message for mirroring, HAL conduit did not return OK.

Remedy

Try to disable mirroring and re-enable it.

Severity

Error

Message Text

Sending asynchronous conduit message for configuring virtual port filter failed.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.AllocVLANPortMsgFail

Description

When trying to send asynchronous conduit message for mirroring, HAL conduit did not return OK.

Remedy

Try to disable mirroring and re-enable it.

Severity

Debug-Data

Message Text

Failed to allocate size `%size%` when sending conduit message for configuring virtual port mirroring filter.

Message Parameters

Name	Type
size	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.AllocVLANMsgFail

Description

When trying to send asynchronous conduit message for mirroring, HAL conduit did not return OK.

Remedy

Try to disable mirroring and re-enable it.

Severity

Debug-Data

Message Text

Failed to allocate size `%size%` when sending conduit message for configuring VLAN mirroring filter.

Message Parameters

Name	Type
size	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.AllocPortMsgFail

Description

When trying to send asynchronous conduit message for mirroring, HAL conduit did not return OK.

Remedy

Try to disable mirroring and re-enable it.

Severity

Debug-Data

Message Text

Failed to allocate size `%size%` when sending conduit message for configuring port mirroring filter.

Message Parameters

Name	Type
size	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.AllocEnblMsgFail

Description

When trying to send asynchronous conduit message for mirroring, HAL conduit did not return OK.

Remedy

Try to disable mirroring and re-enable it.

Severity

Debug-Data

Message Text

Failed to allocate size `%size%` when sending conduit message for enable/disable mirroring.

Message Parameters

Name	Type
size	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.AllocVLANDisblFail

Description

When trying to send asynchronous conduit message for mirroring, HAL conduit did not return OK.

Remedy

Try to disable mirroring and re-enable it.

Severity

Debug-Data

Message Text

Failed to allocate size `%size%` when sending conduit message for disable learning on remote VLAN.

Message Parameters

Name	Type
size	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.FndMirToPortFail

Description

Was not able to acquire slot and port information and logical port interface given the monitor port instance.

Remedy

Try a different monitor port.

Severity

Debug-Data

Message Text

Unable to obtain monitor port interface information.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.FndVLANFail

Description

Was not able to acquire VLAN interface information given the VLAN instance when trying to add/delete a mirroring filter.

Remedy

Try to unconfigure the mirroring filter and reconfigure it.

Severity

Debug-Data

Message Text

Failed to get VLAN interface information when adding/deleting filter for mirroring.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.FndMirVLANFail

Description

Unable to configure mirroring VLAN for mirroring because can't get VLAN interface.

Remedy

Try to disable mirroring and enable one-to-many mirroring.

Severity

Debug-Data

Message Text

Unable to obtain VLAN interface for mirroring VLAN.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.MirVLANHWDataNull

Description

Was not able to acquire hardware VLAN interface information given the name of the internal mirroring VLAN for one-to-many mirroring.

Remedy

Try to disable mirroring and enable one-to-many mirroring.

Severity

Debug-Data

Message Text

Hardware VLAN information for mirroring VLAN `%vlanName%` is null.

Message Parameters

Name	Type
vlanName	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.FndPortFail

Description

Was not able to acquire port information given port instance.

Remedy

Try to disable mirroring and enable mirroring.

Severity

Debug-Data

Message Text

Failed to get port interface information.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.FndPortSendMsgFail

Description

Was not able to acquire port interface information when sending message to I/O.

Remedy

Try to disable mirroring and enable mirroring.

Severity

Debug-Data

Message Text

Failed to get port interface information when sending port configuration message for mirroring.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.FndVLANPortFail

Description

Was not able to acquire virtual port information given VLAN and port instances.

Remedy

Try to disable mirroring and enable mirroring.

Severity

Debug-Data

Message Text

Failed to get (VLAN, port) interface information.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.FndVLANPortSendMsgFail

Description

Was not able to acquire virtual port information when sending conduit message to I/O for configuring virtual port mirror filter.

Remedy

Try to unconfigure the mirroring filter and reconfigure it.

Severity

Debug-Data

Message Text

Failed to get (VLAN, port) interface information sending virtual port configuration message for mirroring..

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.TrunkHWDataNull

Description

Was not able to acquire hardware-based trunk data pointer for this port.

Remedy

Try to disable mirroring and re-enable it.

Severity

Debug-Data

Message Text

Hardware-based trunk information for port `%slot%:%port%` is null.

Message Parameters

Name	Type
slot	Slot
port	Port

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Mirror.RmtIPGwAvail

Description

This event occurs when a mirror-to-remote-IP destination, or a gateway to reach it, becomes resolved. Following this event, mirrored traffic is transmitted from the resolved port, or ports in the case of a load share group.

Remedy

No action required - Notification of a gateway reachability change only

Severity

Notice

Message Text

`%vr%`: Destination gateway `%gwIPaddr%` is resolved to`%str%` port `%slotPort%` to mirror-to-remote-IP `%rmtIP%`

Message Parameters

Name	Type
rmtIP	IPv4
vr	String
gwIPaddr	IPv4
str	String
slotPort	SlotPort

Applicable Platforms

- Summit family switches

HAL.Mirror.RmtIPGwUnk

Description

This event occurs when a reachability is lost to a mirror-to-remote-IP destination or a gateway to reach it. Following this event, the mirrored traffic will stop until one of the gateways becomes reachable.

Remedy

No action required - Notification of a gateway reachability change only

Severity

Notice

Message Text

`%vr%`: Destination gateway is unknown to mirror-to-remote-IP `%rmtIP%`

Message Parameters

Name	Type
rmtIP	IPv4
vr	String

Applicable Platforms

- Summit family switches

HAL.Mirror.RmtIPGwUnsuprt

Description

This event occurs when a mirror-to-remote-IP destination, or a gateway to reach it, becomes resolved to an unsupported gateway. When an unsupported gateway resides on a load sharing group, its master port is provided. Traffic is not mirrored until a supported gateway is reachable.

Remedy

No action required - Notification message only

Severity

Error

Message Text

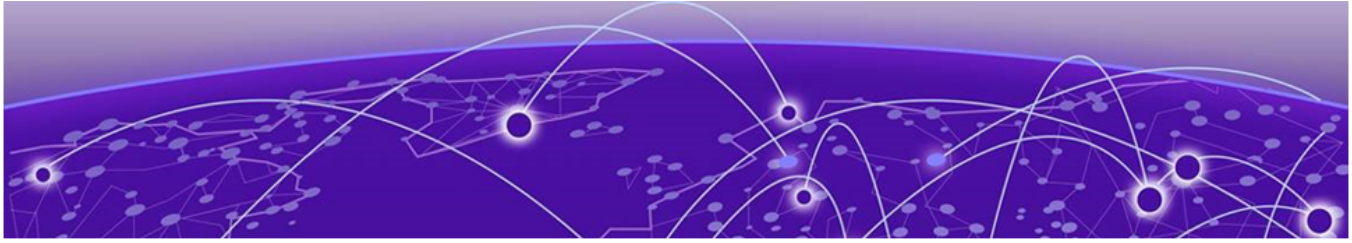
`%vr%`: Destination gateway `%gwIPaddr%` resolved to`%str%` port `%slotPort%` is unsupported to mirror-to-remote-IP `%rmtIP%`

Message Parameters

Name	Type
vr	String
gwIPaddr	IPv4
str	String
slotPort	SlotPort
rmtIP	IPv4

Applicable Platforms

- Summit family switches



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HAL.MPLS.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.MPLS.ilmClear

Description

MPLS tracing for responding to ILM clear requests.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

HAL.MPLS.ilmClearInst

Description

MPLS tracing for responding to ILM clear stat requests of a particular instance.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Clear ILM `%ilmInst%`: `%msg%`

Message Parameters

Name	Type
ilmInst	uInt32
msg	Printf

HAL.MPLS.ilmGetAllocd

Description

MPLS tracing for responding to ILM Get stat request.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Get ILM `%ilmCount%`: `%msg%`

Message Parameters

Name	Type
ilmCount	uInt32
msg	Printf

HAL.MPLS.ilmGetRespData

Description

MPLS tracing for responding to ILM Get stat request.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Get ILM `%ilmCount%`= `%msg1%`. `%rspBufSize%`= `%msg2%`. `%chainSegType%`= `%msg3%`. `%entriesInSeg%`= `%msg4%`.

Message Parameters

Name	Type
ilmCount	uInt32
rspBufSize	uInt32
chainSegType	uInt32
entriesInSeg	uInt32
msg1	String
msg2	String
msg3	String
msg4	String

HAL.MPLS.ErrorIlmGetStat

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.MPLS.API

Description

The Hardware Abstraction Layer has received a command to configure some MPLS parameters which the log message displays. This is normal and does not indicate a problem. This log message is intended to help debug problems that may involve the HAL MPLS API.

Remedy

None. This log message does not indicate a problem.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.MPLS.Info

Description

A normal but mildly interesting condition has been detected.

Remedy

None. This log message does not indicate a problem.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.MPLS.Critical

Description

A serious problem has been detected which compromises the operation of the system. The system cannot function as expected unless it is remedied The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem cannot be resolved without some intervention.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.MPLS.ProcMsgVerInv

Description

An unsupported version number was used when constructing or processing a message used for communication with the I/O Modules.

Remedy

This may be a symptom of version incompatibility between the MM and one or more of the I/O Modules. Ensure the software versions are compatible. The I/O Module may require a reboot (disable/enable).

Severity

Critical

Message Text

Message version `%version%` unsupported.

Message Parameters

Name	Type
version	uInt

HAL.MPLS.InitCndtFail

Description

MPLS initialization of conduits for MM-I/O Module communication could not be completed. MPLS will not function properly as a result.

Remedy

Insufficient memory may be the issue. If not, the error code supplied in the message may be helpful in debuggiing. Please provide the error code along with "show tech" to Technical Support.

Severity

Critical

Message Text

Conduit intialization failed due to error `%errCode%`

Message Parameters

Name	Type
errCode	uInt

HAL.MPLS.AllocMsgFail

Description

The specified MPLS message type could not be constructed and sent to one or more I/O Modules due to an allocation failure.

Remedy

The system is low on memory resources. The configuration should be reduced in scale or complexity in order for the system to continue operating correctly.

Severity

Critical

Message Text

Could not allocate a message of type `%msgId%`

Message Parameters

Name	Type
msgId	uInt

HAL.MPLS.SendAsyncMsgFail

Description

A message could not be sent to one or more I/O Modules asynchronously. The error code is included in the message. An MPLS operation could not be completed as a result. The system may be low on resources or busy.

Remedy

If the problem persists, please provide "show tech" and the text of the log message to Technical Support.

Severity

Critical

Message Text

Asynchronous message send failed with error `%errCode%`

Message Parameters

Name	Type
errCode	uInt

HAL.MPLS.SendMsgFail

Description

A message could not be sent to one or more I/O Modules. The error code is included in the message. An MPLS operation could not be completed as a result. The system may be low on resources or busy.

Remedy

If the problem persists, please provide "show tech" and the text of the log message to Technical Support.

Severity

Critical

Message Text

Message send failed with error `%errCode%`

Message Parameters

Name	Type
errCode	uInt

HAL.MPLS.PIFNotSuprt

Description

A supported port type was specified in an MPLS operation.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Port type `%PIFType%` unsupported

Message Parameters

Name	Type
PIFType	uInt

HAL.MPLS.NHLFEParamNull

Description

An MPLS function was called with a NULL NHLFE parameter.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Null NHLFE argument

HAL.MPLS.NHLFENbrNull

Description

An MPLS function was called for an NHLFE with a NULL neighbor pointer.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Null neighbor pointer in NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
nhlfeInst	uInt

HAL.MPLS.PWFIBNextHopNull

Description

A pseudowire NHLFE has a NULL FIB nexthop pointer.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Null FIB-NextHop in NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
nhlfeInst	uInt

HAL.MPLS.PWNHLFEFIBNextHopInv

Description

A pseudowire NHLFE FIB nexthop is assigned an invalid FIB nexthop type.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Invalid FIB-NextHop type `%nhType%` in NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
nhType	uInt
nhlfeInst	uInt

HAL.MPLS.FIBNextHopPWNull

Description

A pseudowire FIB nexthop has a NULL pseudowire pointer.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Null pseudowire in FIB-nexthop for NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
nhlfeInst	uInt

HAL.MPLS.FIBNextHopNotSuprt

Description

An unsupported FIB-NextHop type was specified in an MPLS operation.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Unsupported FIB-NextHop type `%nhType%` for NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
nhType	uInt
nhlfeInst	uInt

HAL.MPLS.LblCntNotSuprt

Description

An MPLS operation could not be carried out due to an unsupported label count.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Unsupported label count `%lblCount%` in NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
lblCount	uInt
nhlfeInst	uInt

HAL.MPLS.FIBNextHopInv

Description

An MPLS operation could not be completed due to an invalid FIB nexthop type.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Invalid FIB-nexthop type `%nhType%` specified for NHLFE

Message Parameters

Name	Type
nhType	uInt

HAL.MPLS.FIBNextHopNHLFENull

Description

An MPLS operation could not be completed due to a null NHLFE pointer in a FIB nexthop.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Null NHLFE pointer in FIB-nexthop

HAL.MPLS.ILMVLANNotFnd

Description

A VLAN associated with an ILM label could not be found.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

VLAN inst `%vlanInst%` not found for ILM label `%lbl%`

Message Parameters

Name	Type
vlanInst	uInt
lbl	xInt

HAL.MPLS.ILMPWNotFnd

Description

A pseudowire associated with an ILM label could not be found.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Pseudo Wire not found for ILM label `%lbl%`

Message Parameters

Name	Type
lbl	xInt

HAL.MPLS.ILMNextHopInv

Description

An MPLS operation could not be completed due to an invalid nexthop type in an ILM label.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Invalid nexthop type `%nhType%` in ILM label `%lbl%`

Message Parameters

Name	Type
nhType	uInt
lbl	xInt

HAL.MPLS.ILMNHLFENotFnd

Description

An NHLFE associated with an ILM label could not be found.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

NHLFE `%nhlfeInst%` not found for ILM label `%lbl%`

Message Parameters

Name	Type
nhlfeInst	uInt
lbl	xInt

HAL.MPLS.AllocILMFIBNextHopFail

Description

Memory allocation failed for an EXOS internal data structure, FIB next hop associated to the specified NHLFE.

Remedy

The system is low on memory resources. Reduce the configuration including the number of VLANs, ports assigned to VLANs, or MPLS labels.

Severity

Critical

Message Text

No memory for ILM label `%lbl%` NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
lbl	uInt
nhlfeInst	xInt

HAL.MPLS.ILMFIBNextHopInv

Description

An MPLS operation could not be completed due to an invalid nexthop type in an ILM label.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Invalid FIB-nexthop type `%nhType%` for ILM

Message Parameters

Name	Type
nhType	uInt

HAL.MPLS.PWNHLFENotFnd

Description

An NHLFE associated with a pseudowire could not be found.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

NHLFE `%nhlfeInst%` not found for Pseudo Wire `%pwInst%`

Message Parameters

Name	Type
nhlfeInst	uInt
pwInst	xInt

HAL.MPLS.AllocPWFIBNextHopFail

Description

Memory allocation failed for an EXOS internal data structure for a FIB next hop associated to the specified NHLFE.

Remedy

The system is low on memory resources. Reduce the configuration including the number of VLANs, ports assigned to VLANs, MPLS labels and PW.

Severity

Critical

Message Text

No memory for Pseudo Wire `%pwInst%` NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
pwInst	xInt
nhlfeInst	uInt

HAL.MPLS.PWVLANNotFnd

Description

A VLAN associated with a pseudowire could not be found.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

VLAN inst `%vlanInst%` not found for Pseudo Wire `%pwInst%`

Message Parameters

Name	Type
vlanInst	uInt
pwInst	xInt

HAL.MPLS.AllocOutLblIndxFail

Description

An Outgoing Label Table entry could not be allocated for a pseudowire. The pseudowire could not be created as a result.

Remedy

The system is low on resources. Reduce the configuration.

Severity

Critical

Message Text

No Outgoing Label Table entry available for Pseudo Wire `%pwInst%`

Message Parameters

Name	Type
pwInst	uInt

HAL.MPLS.AllocOutVCIndxFail

Description

An outgoing VC Table entry could not be allocated for a pseudowire. The pseudowire could not be created as a result.

Remedy

The system is low on resources. Reduce the configuration.

Severity

Critical

Message Text

No Outgoing VC Table entry available for Pseudo Wire `%pwInst%`

Message Parameters

Name	Type
pwInst	uInt

HAL.MPLS.PWDup

Description

The specified pseudowire could not be inserted into a tree. This occurs when the key for this object is already present in the tree.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Tree insertion failed for Pseudo Wire `%pwInst%`

Message Parameters

Name	Type
pwInst	xInt

HAL.MPLS.PWOutLblDup

Description

The specified pseudo wire's outgoing label index could not be inserted into a tree. This occurs when the key for this object is already present in the tree.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Tree insertion failed for Pseudo Wire `%pwInst%` OLI `%oli%`

Message Parameters

Name	Type
pwInst	xInt
oli	uInt

HAL.MPLS.AllocPWFail

Description

[Memory allocation failed for an EXOS internal data structure for pseudowire.

Remedy

The system is low on memory resources. Reduce the configuration including the number of VLANs, ports assigned to VLANs, MPLS labels and PW.

Severity

Critical

Message Text

No memory for Pseudo Wire `%pwInst%`

Message Parameters

Name	Type
pwInst	xInt

HAL.MPLS.IPv4NbrDup

Description

An IPv4 neighbor could not be inserted into a tree. This occurs when the key for this object is already present in the tree.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Tree insertion failed for IPv4 neighbor

HAL.MPLS.IPv6NbrDup

Description

An IPv6 neighbor could not be inserted into a tree. This occurs when the key for this object is already present in the tree.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Tree insertion failed for IPv6 neighbor

HAL.MPLS.NextHopAddrInv

Description

An operation could not be completed due to an invalid nexthop address type.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Invalid nexthop addr type `%addrType%` in NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
addrType	uInt
nhlfeInst	uInt

HAL.MPLS.NHLFEFIBNextHopInv

Description

An operation could not be completed due to an invalid NHLFE nexthop type.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Invalid nexthop type `%nhType%` for NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
nhType	uInt
nhlfeInst	uInt

HAL.MPLS.NHLFEDup

Description

The specified NHLFE could not be inserted into a tree. This occurs when the key for this object is already present in the tree.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Tree insertion failed for NHLFE`%nhlfeInst%`

Message Parameters

Name	Type
nhlfeInst	uInt

HAL.MPLS.ILMDup

Description

The specified ILM label could not be inserted into a tree. This occurs when the key for this object is already present in the tree.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Tree insertion failed for ILM `%ilmInst%` label `%lbl%`

Message Parameters

Name	Type
ilmInst	uInt
lbl	xInt

HAL.MPLS.ReplILMToNHNotSuprt

Description

The specified ILM could not be updated with a given next hop because either the next hop is not specified in the CLI or the given nexthop type is unsupported.

Remedy

[This is a rare case and may happen due to memory corruption. Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

The type `%nhType%` of a new next hop is not supported for the specified ILM, label `%lbl%` because the new next hop does not allow swap.

Message Parameters

Name	Type
nhType	uInt
lbl	xInt

HAL.MPLS.ReplILMFromNHNotSuprt

Description

The specified ILM could not be updated with a new next hop because the currently associated next hop type is unsupported.

Remedy

This is a rare case and may happen due to memory corruption. Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

The type `%nhType%` of the existing next hop is not supported for the specified ILM, label `%lbl%` because the new next hop does not allow swap.

Message Parameters

Name	Type
nhType	uInt
lbl	xInt

HAL.MPLS.AllocL2EncapFail

Description

A table entry for the specified MPLS neighbor could not be created.

Remedy

The system is low on memory resources. Reduce the configuration.

Severity

Error

Message Text

No L2 Encapsulation Table entry for MPLS neighbor `%mplsNbr%`

Message Parameters

Name	Type
mplsNbr	String

HAL.MPLS.AllocOutLblFail

Description

A table entry for the specified NHLFE could not be created.

Remedy

The system is low on memory resources. Reduce the configuration.

Severity

Error

Message Text

No Outgoing Label Table entry for NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
nhlfeInst	uInt

HAL.MPLS.AllocNHLFEFail

Description

The specified NHLFE could not be created.

Remedy

The system is low on memory resources. Reduce the configuration.

Severity

Error

Message Text

No memory for NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
nhlfeInst	uInt

HAL.MPLS.AllocILMFail

Description

The specified ILM label could not be created.

Remedy

The system is low on memory resources. Reduce the configuration.

Severity

Error

Message Text

No memory for ILM label `%nhlfeInst%`

Message Parameters

Name	Type
nhlfeInst	xInt

HAL.MPLS.ILMExist

Description

An MPLS ILM add operation could not be completed because the ILM label already exists.

Remedy

Gather "show tech" output and contact technical support.

Severity

Error

Message Text

ILM `%ilmInst%` already exists with label `%lbl%` nexthop type `%nhType%` (new label `%newLbl%` with nexthop type `%newNhType%`)

Message Parameters

Name	Type
ilmInst	uInt
lbl	xInt
nhType	String
newLbl	xInt
newNhType	String

HAL.MPLS.ClrTCAMStatsFail

Description

A TCAM hardware operation failed. The specified TCAM entry's statistics could not be cleared as a result.

Remedy

Try rebooting the associated I/O module. If the problem persists, run diags on the I/O module. If that passes, gather "show tech" output and contact technical support.

Severity

Error

Message Text

TCAM write entry `%index%` failed (card num `%cardno%`), ILM `%ilmInst%`

Message Parameters

Name	Type
index	xInt
cardno	xInt
ilmInst	uInt

HAL.MPLS.RslvTCAMHndlFail

Description

A TCAM handle could not be resolved to an index. As a result, a subsequent TCAM operation could not be carried out.

Remedy

Try rebooting the associated I/O module. If the problem persists, run diags on the I/O module. If that passes, gather "show tech" output and contact technical support.

Severity

Error

Message Text

Failed to resolve TCAM handle `%tcamHndl%`

Message Parameters

Name	Type
tcamHndl	xInt

HAL.MPLS.ILMParamInv

Description

An MPLS function was called with a NULL NHLFE parameter.

Remedy

Gather "show tech" output and contact technical support.

Severity

Error

Message Text

Invalid ILM in array (index `%index%` instance `%ilmInst%`)

Message Parameters

Name	Type
index	uInt
ilmInst	uInt

HAL.MPLS.ILMNotFnd

Description

An ILM entry for the specified ILM could not be found.

Remedy

Gather "show tech" output and contact technical support.

Severity

Error

Message Text

ILM not found for ILM `%ilmInst%`

Message Parameters

Name	Type
ilmInst	xInt

HAL.MPLS.AllocILMStatsMsgFail

Description

A message for ILM stats could not be allocated.

Remedy

The system is low on memory resources. Reduce the configuration.

Severity

Error

Message Text

Failed to allocate buffer size `%bufSize%`, ILM entries `%ilmCount%`

Message Parameters

Name	Type
bufSize	xInt
ilmCount	xInt

HAL.MPLS.ILMTblEmpty

Description

An ILM retrieval operation exited early since there are no ILM entries in the table.

Remedy

No action is needed. This is an informational message only.

Severity

Info

Message Text

No ILM entries found, ILM count `%ilmCount%`

Message Parameters

Name	Type
ilmCount	uInt

HAL.MPLS.PWFIBNextHopInv

Description

A pseudowire NHLFE FIB nexthop is assigned an invalid FIB nexthop type.

Remedy

Gather "show tech" output and contact technical support.

Severity

Critical

Message Text

Invalid FIB-NextHop type `%nhType%`

Message Parameters

Name	Type
nhType	uInt

HAL.MPLS.AllocIPv4NextHopFail

Description

An IPv4 Next Hop entry could not be allocated for an NHLFE. The NHLFE will not function correctly as a result.

Remedy

The system is low on resources. Reduce the configuration.

Severity

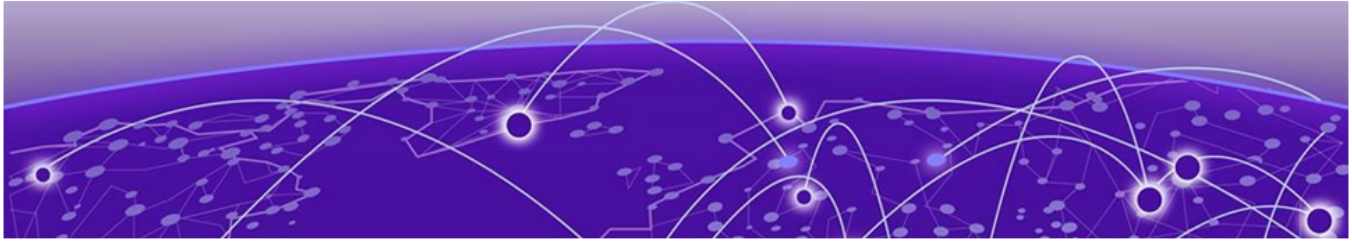
Error

Message Text

No IPv4 Next Hop entry available for NHLFE `%nhlfeInst%`

Message Parameters

Name	Type
nhlfeInst	uInt32



HAL.Msg Messages

HAL.Msg.Critical on page 2043
HAL.Msg.Error on page 2044
HAL.Msg.Warning on page 2044
HAL.Msg.Notice on page 2045
HAL.Msg.Info on page 2045
HAL.Msg.DebugSummary on page 2046
HAL.Msg.DebugVerbose on page 2047
HAL.Msg.DebugData on page 2047

HAL.Msg.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.Msg.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Msg.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Msg.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Msg.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Msg.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Msg.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Msg.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

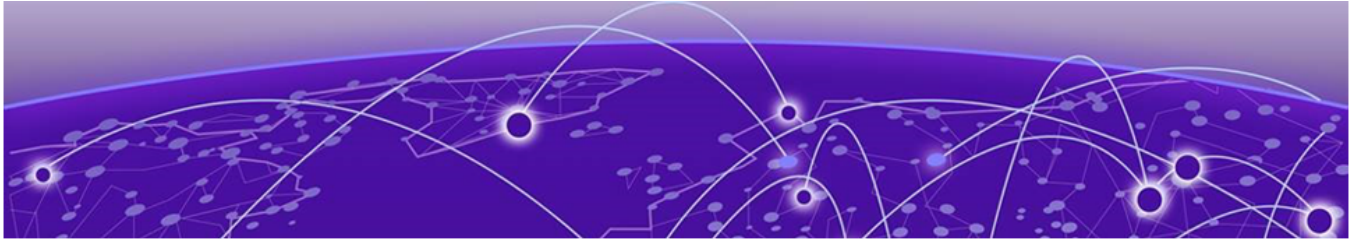
Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



HAL.NAT Messages

HAL.NAT.DebugSummary on page 2049
HAL.NAT.DebugVerbose on page 2050
HAL.NAT.AllocMemFail on page 2050
HAL.NAT.SetHwCfgFail on page 2051
HAL.NAT.GetHwInfoFail on page 2051

HAL.NAT.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.NAT.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.NAT.AllocMemFail

Description

Memory for the displayed object could not be allocated. This may be due to the system running low on memory. This will result in incorrect programming of hardware tables and will impact network address translation.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure.

Message Parameters

Name	Type
obj	String

HAL.NAT.SetHwCfgFail

Description

The specified error was encountered while programming the hardware. This can result in incorrect programming of hardware tables and impact network address translation.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the following information: NAT configuration, "show tech-support" and "show log" output.

Severity

Error

Message Text

Set `%objDescr%` for `%obj%` `%objVal%` on Slot `%slot%` failed (`%errStr%`).

Message Parameters

Name	Type
slot	Slot
objVal	uInt32
errStr	String
obj	String
objDescr	String

HAL.NAT.GetHwInfoFail

Description

The specified error was encountered while retrieving NAT related information from the hardware. This can result in incorrect status or counters or age being reported.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the following information: NAT configuration, "show tech-support" and "show log" output.

Severity

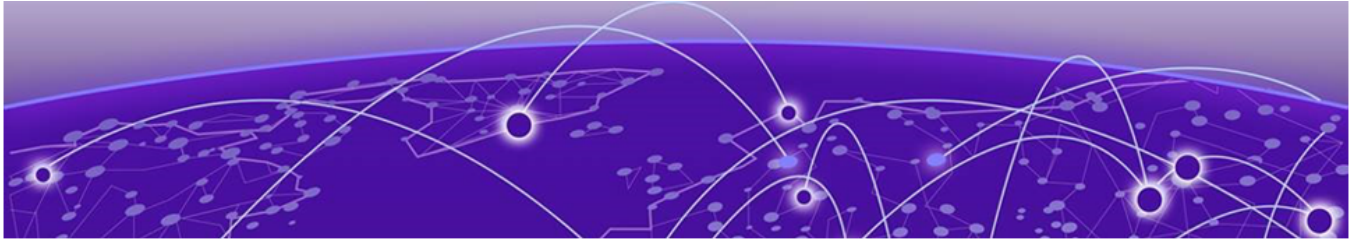
Error

Message Text

Get `%objDescr%` for `%obj%` `%objVal%` on Slot `%slot%` failed (`%errStr%`).

Message Parameters

Name	Type
slot	Slot
objVal	uInt32
errStr	String
obj	String
objDescr	String



HAL.NetClock Messages

HAL.NetClock.DebugSummary on page 2053
HAL.NetClock.DebugVerbose on page 2054
HAL.NetClock.DebugData on page 2054
HAL.NetClock.ClockModHwMiss on page 2055

HAL.NetClock.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.NetClock.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.NetClock.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.NetClock.ClockModHwMiss

Description

A feature such as SyncE or a command such as configure network-clock has requested a function that requires clock module hardware, but the clock module is not installed.

Remedy

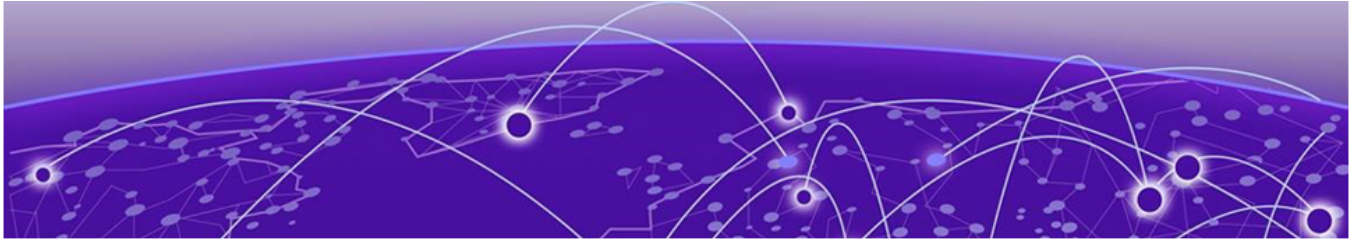
Power down the switch to install a clock module. Reboot and retry the operation. You can replace an E4G-200 clock module without powering down the router; however, you must reboot the router to initialize the newly installed clock module.

Severity

Error

Message Text

Clock module hardware is missing. Needed to configure network-clock for features such as SyncE.



HAL.OAM Messages

HAL.OAM.InitHwCFMFail on page 2056
HAL.OAM.EnblHwCFMFail on page 2057
HAL.OAM.CreatHwMAFail on page 2057
HAL.OAM.UpdtHwMAFail on page 2058
HAL.OAM.DelHwMAFail on page 2058
HAL.OAM.UpdtHwMDFail on page 2059
HAL.OAM.DelHwMDFail on page 2059
HAL.OAM.CreatHwMEPFail on page 2060
HAL.OAM.UpdtHwMEPFail on page 2061
HAL.OAM.DelHwMEPFail on page 2061
HAL.OAM.SuspHwMEPFail on page 2062
HAL.OAM.ResumeHwMEPFail on page 2063
HAL.OAM.RegClientFail on page 2064
HAL.OAM.QueryHwMAFaultsFail on page 2064
HAL.OAM.ClearHwMAFaultsFail on page 2065
HAL.OAM.QueryMEPFaultsFail on page 2066
HAL.OAM.ClearMEPFaultsFail on page 2066
HAL.OAM.CmmtHwMAFail on page 2067
HAL.OAM.CmmtHwMEPFail on page 2068
HAL.OAM.Error on page 2069

HAL.OAM.InitHwCFMFail

Description

This message is generated when an attempt to initialize hardware accelerated CFM fails on a particular slot. This can happen if the slot does not support the feature, if the connection to the kernel failed, or if some other failure prevented the kernel from handling the request.

Remedy

Verify that the system is properly configured and running the correct software load. This message is generated at a point that "should never happen", so if it ddoes, other log messages should indicate other failures and this one is just a symptom of some

other failure. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to initialize Hardware Accelerated CFM.

HAL.OAM.EnblHwCFMFail

Description

This message is generated when an attempt to enable hardware accelerated CFM fails on a particular slot. This can happen if the slot does not support the feature, if the connection to the kernel failed, or if some other failure prevented the kernel from handling the request.

Remedy

Verify that the system is properly configured and running the correct software load. This message is generated at a point that "should never happen", so if it ddoes, other log messages should indicate other failures and this one is just a symptom of some other failure. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to enable Hardware Accelerated CFM.

HAL.OAM.CreatHwMAFail

Description

This message is generated when an attempt to create a maintenance assocation (MA) in hardware fails because the MA database is full and no more MAs can be created.

Remedy

Delete unneeded maintenance associations to make room for the ones that are needed. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to create maintenance association in Hardware Accelerated CFM.

HAL.OAM.UpdtHwMAFail

Description

This message is generated when an attempt to update a maintenance association fails because no no entry can be found in the database with the given MAID, level, and VLAN.

Remedy

Verify the correct parameters are specified on the command line.Note the MAID must match on the type originally used. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure updating the maintenance association because it cannot be found in the database.

HAL.OAM.DelHwMAFail

Description

This message is generated when an attempt to delete a maintenance assocation fails because no entry can be found in the database with the given MAID, level, and VLAN

Remedy

Verify the correct parameters are specified on the command line. Note the MAID must match on the type originally used. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to delete a maintenance association from the HWAOAM database.

HAL.OAM.UpdtHwMDFail

Description

This message is generated when an attempt to update a maintenance domain fails because no no entry can be found in the database with the level and VLAN.

Remedy

Verify the correct parameters are specified on the command line. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure updating the maintenance domain because it cannot be found in the database.

HAL.OAM.DelHwMDFail

Description

This message is generated when an attempt to delete a maintenance domain fails because no no entry can be found in the database with the level and VLAN.

Remedy

Verify the correct parameters are specified on the command line. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure deleting the maintenance domain because it cannot be found in the database.

HAL.OAM.CreatHwMEPFail

Description

This message is generated when an attempt to create a maintenance endpoint (MEP) in hardware fails because either the appropriate MEP database (LMEP or RMEP) is full and no more MEPs can be created or the maintenance association for this MEP could be located in the maintenance association database.

Remedy

Delete unneeded maintenance endpoints to make room for the ones that are needed or verify the correct parameters for the MA and MEP are specified. These include the MAID (include the type used originally), level, VLAN id, MEP id, MEP type, and port number. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to create maintenance endpoint in Hardware Accelerated CFM: T=`%type%` L=`%level%` V=`%vlanid%` I=`%mepid%` P=`%portid%`

Message Parameters

Name	Type
type	String
level	uInt
vlanid	uInt
mepid	uInt
portid	uInt32

HAL.OAM.UpdtHwMEPFail

Description

This message is generated when an attempt to update a maintenance domain fails because no no entry can be found in the database with the given MAID, level, VLAN id, MEP id, and port.

Remedy

Verify the correct parameters are specified on the command line. Note the MAID must match on the type originally used. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to update maintenance endpoint in Hardware Accelerated CFM: T=`%type%` L=`%level%` V=`%vlanid%` I=`%mepid%` P=`%portid%`

Message Parameters

Name	Type
type	String
level	uInt
vlanid	uInt
mepid	uInt
portid	uInt32

HAL.OAM.DelHwMEPFail

Description

This message is generated when an attempt to delete a maintenance domain fails because no no entry can be found in the database with the given MAID, level, VLAN id, MEP id, and port.

Remedy

Verify the correct parameters are specified on the command line. Note the MAID must match on the type originally used. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to delete maintenance endpoint in Hardware Accelerated CFM: T=`%type%` L=`%level%` V=`%vlanid%` I=`%mepid%` P=`%portid%`

Message Parameters

Name	Type
type	String
level	uInt
vlanid	uInt
mepid	uInt
portid	uInt32

HAL.OAM.SuspHwMEPFail

Description

This message is generated when an attempt to suspend a maintenance endpoint fails because no entry can be found in the database with the given MAID, level, VLAN id, MEP id, and port.

Remedy

Verify the correct parameters are specified on the command line. Note the MAID must match on the type originally used. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to suspend maintenance endpoint in Hardware Accelerated CFM: T=%type% L=%level% V=%vlanid% I=%mepid% P=%portid%

Message Parameters

Name	Type
type	String
level	uInt
vlanid	uInt
mepid	uInt
portid	uInt32

HAL.OAM.ResumeHwMEPFail

Description

This message is generated when an attempt to resume a suspended a maintenance endpoint fails because no entry can be found in the database with the given MAID, level, VLAN id, MEP id, and port.

Remedy

Verify the correct parameters are specified on the command line. Note the MAID must match on the type originally used. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to resume a suspended maintenance endpoint in Hardware Accelerated CFM: T=%type% L=%level% V=%vlanid% I=%mepid% P=%portid%

Message Parameters

Name	Type
type	String
level	uInt
vlanid	uInt

Name	Type
mepid	uInt
portid	uInt32

HAL.OAM.RegClientFail

Description

This error occurs when a client application attempt to register as an event client with HWAOAM fails for any reason.

Remedy

This message only results from an unexpected error condition (i.e. it shouldn't happen). To help the developers solve the problem the user should provide the HAL.OAM EMS log messages and the output from the following command debug hal show platform hwa-oam all

Severity

Error

Message Text

Internal failure attempting to register peer client to HWAOAM, id=`%peerid%`.

Message Parameters

Name	Type
peerid	uInt

HAL.OAM.QueryHwMAFaultsFail

Description

This message is generated when an attempt to query the fault indicators for a maintenance association fails because a matching entry cannot be found in the databsae.

Remedy

Verify the correct parameters are specified on the command line. Note the MAID must match on the type originally used. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to query maintenance association faults in Hardware Accelerated CFM: L=`%level%` V=`%vlanid%`

Message Parameters

Name	Type
level	uInt
vlanid	uInt

HAL.OAM.ClearHwMAFaultsFail

Description

This message is generated when an attempt to clear the fault indicators for a maintenance association fails because a matching entry cannot be found in the databsae.

Remedy

Verify the correct parameters are specified on the command line. Note the MAID must match on the type originally used. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to clear maintenance association faults in Hardware Accelerated CFM: L=`%level%` V=`%vlanid%`

Message Parameters

Name	Type
level	uInt
vlanid	uInt

HAL.OAM.QueryMEPFaultsFail

Description

This message is generated when an attempt to query a maintenance endpoint fault indicators fails because no entry can be found in the database with the given MAID, level, VLAN id, MEP id, and port.

Remedy

Verify the correct parameters are specified on the command line. Note the MAID must match on the type originally used. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to query the maintenance endpoint faults in Hardware Accelerated CFM: T=`%type%` L=`%level%` V=`%vlanid%` I=`%mepid%` P=`%portid%`

Message Parameters

Name	Type
type	String
level	uInt
vlanid	uInt
mepid	uInt
portid	uInt32

HAL.OAM.ClearMEPFaultsFail

Description

This message is generated when an attempt to clear the maintenance endpoint fault indicators fails because no entry can be found in the database with the given MAID, level, VLAN id, MEP id, and port.

Remedy

Verify the correct parameters are specified on the command line. Note the MAID must match on the type originally used. You can also verify the HAL OAM database with the command: debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to clear the maintenance endpoint faults in Hardware Accelerated CFM: T=`%type%` L=`%level%` V=`%vlanid%` I=`%mepid%` P=`%portid%`

Message Parameters

Name	Type
type	String
level	uInt
vlanid	uInt
mepid	uInt
portid	uInt32

HAL.OAM.CmmtHwMAFail

Description

This message is generated when an attempt to commit a maintenance association creation, update, or deletion in hardware fails for any reason.

Remedy

This message only results from an unexpected error condition (i.e. it shouldn't happen). To help the developers solve the problem the user should provide the HAL.OAM EMS log messages and the output from the following command debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to commit maintenance association creation changes in Hardware Accelerated CFM: L=`%level%` V=`%vlanid%`

Message Parameters

Name	Type
level	uInt
vlanid	uInt

HAL.OAM.CmmtHwMEPFail

Description

This message is generated when an attempt to commit a maintenance endpoint creation, update, or deletion in hardware fails for any reason.

Remedy

This message only results from an unexpected error condition (i.e. it shouldn't happen). To help the developers solve the problem the user should provide the HAL.OAM EMS log messages and the output from the following command debug hal show platform hwa-oam all

Severity

Error

Message Text

Failure attempting to commit the maintenance endpoint changes in Hardware Accelerated CFM: T=`%type%` L=`%level%` V=`%vlanid%` I=`%mepid%` P=`%portid%`

Message Parameters

Name	Type
type	String
level	uInt
vlanid	uInt
mepid	uInt
portid	uInt32

HAL.OAM.Error

Description

A condition has occurred that results in the failure of the requested HWAOAM function to complete.

Remedy

This message only results from an unexpected error condition (i.e. it shouldn't happen). To help the developers solve the problem the user should provide the HAL.OAM EMS log messages and the output from the following command debug hal show platform hwa-oam all

Severity

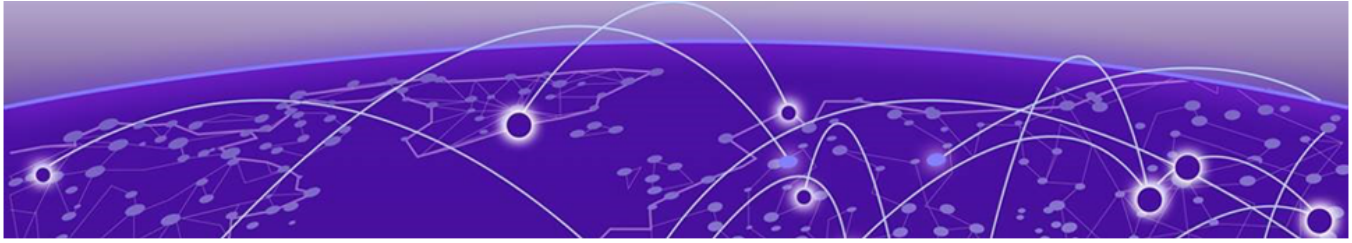
Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



HAL.Optics Messages

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HAL.Optics.ReadFileDupName

Description

When reading yaml table and adding to internal database, an existing entry with identical name has been detected.

Remedy

Most likely caused by duplicate entry name in the trans.yaml table. Extract copy of the trans.yaml file from the device that reported this error.

Severity

Warning

Message Text

Multiple entries for `%name%` exist in the trans.yaml file

Message Parameters

Name	Type
name	String

HAL.Optics.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason of some underlying system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%logMsg%`

Message Parameters

Name	Type
logMsg	Printf

HAL.Optics.ReadFileDupDesc

Description

When reading yaml table and adding to internal database, an entry with different name but identical part number and vendor id has been detected.

Remedy

Most likely caused by two or more entries in trans.yaml file with the same part number and vendor id. Extract copy of the trans.yaml file from the device that reported this error.

Severity

Warning

Message Text

An entry with part number `%partNumber%` vendor `%vendor%` already exists for `%name%` in trans.yaml file

Message Parameters

Name	Type
partNumber	String
vendor	String
name	String

HAL.Optics.DelEntFail

Description

An entry from optics database was attempted to be deleted but was not found.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: - Output of "debug hal show optic-info eeprom" cli command - Output of "show port transceiver information detail" cli command - Output of "show tech" cli command - Copy of the trans.yaml file from the device. This problem may be resolved by a reboot.

Severity

Error

Message Text

Entry with part number `%partNumber%` vendor `%vendor%` for `%name%` was attempted to be removed but was not found

Message Parameters

Name	Type
partNumber	String
vendor	String
name	String

HAL.Optics.CreatThreadFail

Description

Creation of the optics thread failed. Most probable cause is an out of memory condition.

Remedy

Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by deleting some configurations, followed by a reboot.

Severity

Error

Message Text

Failed to start Optics XMOD

HAL.Optics.CreatWatchLibFail

Description

Creation of a Library Watch Group failed. Most probable cause is an out of memory condition.

Remedy

Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by deleting some configurations, followed by a reboot.

Severity

Error

Message Text

Failed to create resource `%resource%` used for monitoring device status

Message Parameters

Name	Type
resource	String

HAL.Optics.StrtWatchLibFail

Description

Start of a Library Watch Group failed.

Remedy

This is a rare internal condition. Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by a reboot.

Severity

Error

Message Text

Failed to start resource `%resource%` used for monitoring device status

Message Parameters

Name	Type
resource	String

HAL.Optics.RecvWatchLibUnkStatus

Description

A Library Watch Group received an unknown status.

Remedy

This is a rare internal condition. Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by a reboot.

Severity

Error

Message Text

Resource `%resource%` used for monitoring device status received unknown status `%status%`

Message Parameters

Name	Type
resource	String
status	uInt

HAL.Optics.RecvUnkMsg

Description

An unknown message from the Device Manager or Configuration Manager was received.

Remedy

This is a rare internal condition. Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by a reboot.

Severity

Error

Message Text

An unknown message `%msgId%` was received from `%sender%`

Message Parameters

Name	Type
msgId	uInt
sender	String

HAL.Optics.LoadFileFail

Description

Failure to load trans.yaml file is likely caused by no trans.yaml file being present, or no trans.yaml file presence in the manifest.yaml file.

Remedy

Verify the manifest.yaml and trans.yaml file exist, and if they do, extract them.

Severity

Error

Message Text

The trans.yaml config file failed to be loaded

HAL.Optics.CreatTimerFail

Description

Unable to crate timer to re-register with Directory Service.

Remedy

This is a rare internal condition. Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by a reboot.

Severity

Error

Message Text

A timer required for the Optics XMOD to function correctly failed to be created

HAL.Optics.InitIPMLClntFail

Description

call to ipmlInitServerClient failed.

Remedy

This is a rare internal condition. Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by a reboot.

Severity

Error

Message Text

Creation of a client required for reception of messages for Optics XMOD failed.

HAL.Optics.AddDsptchSrvrFail

Description

Call to dispatchAddServer failed.

Remedy

This is a rare internal condition. Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by a reboot.

Severity

Error

Message Text

Registration for receipt of messages required for Optics XMOD to function correctly failed.

HAL.Optics.RecvMsgUnkIPML

Description

An unknown IPML message was received.

Remedy

This is a rare internal condition. Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by a reboot.

Severity

Error

Message Text

Unknown interprocess message `%msgId%` was received

Message Parameters

Name	Type
msgId	uInt

HAL.Optics.RecvIPMLPeerCtrlMsgUnk

Description

An unknown message to IPML Peer Control was received.

Remedy

This is a rare internal condition. Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by a reboot.

Severity

Error

Message Text

Unknown interprocess peer control message `%msgId%` was received

Message Parameters

Name	Type
msgId	uInt

HAL.Optics.SendIPMLPktTooBig

Description

A message that was too big attempted to be sent via IPML.

Remedy

This is a rare internal condition. Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by a reboot.

Severity

Error

Message Text

Attempting to send message `%cmd%` of size `%size%` was to big for that message.

Message Parameters

Name	Type
cmd	uInt
size	uInt

HAL.Optics.AllocIPMLPktFail

Description

An IPML packet allocation has failed. Most probable cause is an out of memory condition.

Remedy

Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by deleting some configurations, followed by a reboot.

Severity

Error

Message Text

When sending an interprocess message an, attempt to allocate memory to the message failed

HAL.Optics.SendIPMLFail

Description

IPML has failed to send a message.

Remedy

This is rare condition needing technical assistance. Contact technical support with the following information: - Output of "show tech" cli command The problem may be resolved by a reboot.

Severity

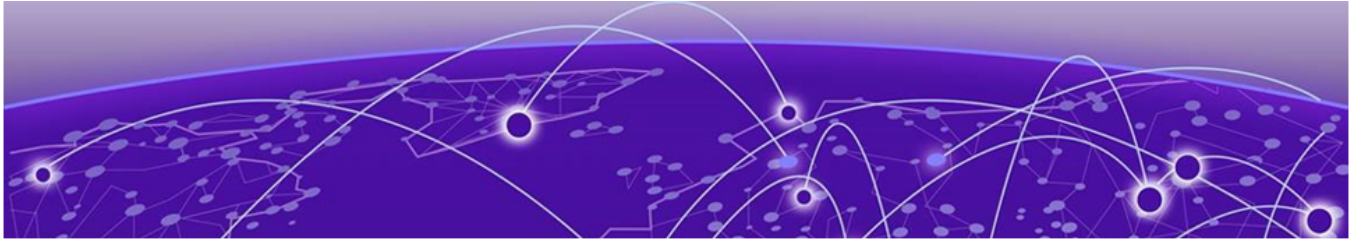
Error

Message Text

An attempt to send interprocess message `%msgId%` has failed.

Message Parameters

Name	Type
msgId	uInt



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HAL.PBB.SendCndtMsgFail on page 2088
HAL.PBB.Exit on page 2089
HAL.PBB.APIFail on page 2090
HAL.PBB.AddSVLANPSIFail on page 2090
HAL.PBB.RemSVLANPSIFail on page 2091
HAL.PBB.AddSVLANToISIDPSIFail on page 2092
HAL.PBB.AddBVLANToISIDPSIFail on page 2093
HAL.PBB.RemSVLANFromISIDPSIFail on page 2093
HAL.PBB.RemBVLANFromISIDPSIFail on page 2094
HAL.PBB.UpdtPSIFail on page 2095
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HAL.PBB.AddCNPToPSIFail on page 2096
HAL.PBB.AddPNPToPSIFail on page 2097
HAL.PBB.RemCNPFromPSIFail on page 2098
HAL.PBB.RemPNPFromPSIFail on page 2099
HAL.PBB.OpenCndtFail on page 2099
HAL.PBB.EnblFail on page 2100
HAL.PBB.DsblFail on page 2101
HAL.PBB.SyncISIDPSIFail on page 2102
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HAL.PBB.AllocEncapIndxTrace on page 2108
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HAL.PBB.StateTransTrace on page 2112
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HAL.PBB.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PBB.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

Provide Extreme the configuration, number of MACs and host IPs, and the "show log" output. Also, check the scalability limit and compare this with the current configurations.

Severity

Debug-Verbose

Message Text

Function `%func%` was called with a Null pointer `%arg%`

Message Parameters

Name	Type
func	String
arg	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.SendAsyncMsgFail

Description

A conduit message could not be sent to one or more I/O Modules asynchronously. An PBB operation could not be completed as a result. The system may be low on resources or busy.

Remedy

Undo and redo the configuration after the current activities complete including IOB reboot or the backup MM reboot. If the problem persists, contact Extreme customer support with the output of "show tech".

Severity

Debug-Summary

Message Text

Asynchronous message send to `%slot%` failed for action `%action%` due to error `%ret%`

Message Parameters

Name	Type
slot	uInt32
action	String
ret	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AllocMemFail

Description

Memory for the displayed object could not be allocated. This may be due to the system running low on memory. This will result in incorrect programming of hardware tables and will impact forwarding of PBB conformant traffic.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Critical

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure.

Message Parameters

Name	Type
obj	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AllocCndtMsgFail

Description

The specified type of the message could not be allocated because the message pool is empty.

Remedy

Undo and redo the configuration after the current activities complete including IOB reboot which consumes a large number of conduit messages.

Severity

Debug-Summary

Message Text

Failed to allocate event buffer for message `%info%`.

Message Parameters

Name	Type
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AllocCkptMsgFail

Description

The checkpointing message for I-SID could not be allocated because the system is low on memory. This will result in the I-SID database on the standby MM not being in sync with that on the active MM. This condition will not impact PBB operation until after a failover of the currently active MM.

Remedy

Check the scalability limit and compare this with the current configurations.

Severity

Error

Message Text

Failed to allocate checkpoint message of `%size%` bytes for `%action%`

Message Parameters

Name	Type
size	uInt32
action	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.ProcCkptMsgFail

Description

The checkpointing message for I-SID cannot be processed in the active or the standby MM. This will result in the I-SID database on the standby MM not being in sync with that on the active MM. This condition will not impact PBB operation until after a failover of the currently active MM.

Remedy

Check if check-pointing is enabled. Also, undo and redo the configuration when both MMs are in sync.

Severity

Debug-Summary

Message Text

Failed to `%action%` for PSI of `%psiName%` with error `%ret%`

Message Parameters

Name	Type
action	String
psiName	String
ret	sInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.CkptTrace

Description

This message is for debugging problems related to active-standby MM Module checkpointing for I-SID. This does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve active-standby MM checkpointing

Severity

Debug-Verbose

Message Text

`%oper%` with action `%action%` with a `%num%` entries of `%obj%` in the message.

Message Parameters

Name	Type
oper	String
action	String
num	uInt32
obj	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.ParmInv

Description

The given parameter has an invalid value in the given context. "show log" may give more data to debug why the parameter has the invalid value.

Remedy

This message aids debugging and thus there is no remedy to remove only this condition.

Severity

Debug-Summary

Message Text

Variable `%arg%` has an invalid value `%val%` in `%info%`

Message Parameters

Name	Type
arg	String
val	uInt32
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.SendCndtMsgFail

Description

MM failed to send a conduit message to IOB. This may affect the PBB configuration because the IOB is not in sync with MM.

Remedy

Check if all the IOBs in the slot are operational. Undo and redo the configuration to push the configuration to the operational IOBs.

Severity

Debug-Summary

Message Text

Fail to send conduit message to `%mesgType%` to `%slot%` in `%info%`

Message Parameters

Name	Type
mesgType	String
slot	Slot
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.Exit

Description

This message shows the code path to help debugging. This message does not indicate any problems.

Remedy

There is no rememdy as this message is added for debugging.

Severity

Debug-Data

Message Text

Complete `%action%` for `%obj%` in `%info%`.

Message Parameters

Name	Type
action	String
obj	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.APIFail

Description

The message shows the API function of the given module that returns an error. The message only provides the information for the debugging of the problem in configuration.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may VLAN library or PSI library.

Severity

Debug-Data

Message Text

Failed to `%action%` in `%module%` API for `%obj%` in `%info%`.

Message Parameters

Name	Type
action	String
module	String
obj	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AddSVLANPSIFail

Description

The message indicates the failure in adding a Customer VLAN to the floodin group of the VLAN or the I-SID. Lower the severity to narrow the cause of failures. The cause could be in the PSI library or the low on memory in the system.

Remedy

Retry the configuration so that the ports are re-added or re-deleted to/from the flooding group of I-SID or VLAN.

Severity

Debug-Summary

Message Text

Failed to add CNP ports in I-SID `%isidName%` to VLAN `%vlanName%` when `%info%`.

Message Parameters

Name	Type
isidName	String
vlanName	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.RemSVLANPSIFail

Description

The message indicates the failure in adding a Customer VLAN to the floodin group of the VLAN or the I-SID. Lower the severity to narrow the cause of failures. The cause could be in the PSI library or the low on memory in the system.

Remedy

Retry the configuration so that the ports are re-added or re-deleted to/from the flooding group of I-SID or VLAN.

Severity

Debug-Summary

Message Text

Failed to remove CNP ports from VLAN `%vlanName%` for I-SID `%isidName%` when `%info%`.

Message Parameters

Name	Type
vlanName	String
isidName	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AddSVLANToISIDPSIFail

Description

The message indicates the failure in adding a Customer VLAN to the floodin group of the VLAN or the I-SID. Lower the severity to narrow the cause of failures. The cause could be in the PSI library or the low on memory in the system.

Remedy

Retry the configuration so that the ports are re-added or re-deleted to/from the flooding group of I-SID or VLAN.

Severity

Debug-Summary

Message Text

Failed to add CNP ports of VLAN `%vlanName%` to the PSI of I-SID `%isidName%` when `%info%`.

Message Parameters

Name	Type
vlanName	String
isidName	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AddBVLANToISIDPSIFail

Description

The message indicates the failure in adding a Provider VLAN to the floodin group of the VLAN or the I-SID. Lower the severity to narrow the cause of failures. The cause could be in the PSI library or the low on memory in the system.

Remedy

Retry the configuration so that the ports are re-added to the flooding group of I-SID or VLAN.

Severity

Debug-Summary

Message Text

Failed to add PNP ports of VLAN `%vlanName%` to the PSI of I-SID `%isidName%` when `%info%`.

Message Parameters

Name	Type
vlanName	String
isidName	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.RemSVLANFromISIDPSIFail

Description

The message indicates the failure in removing a Customer VLAN from the floodin group of the VLAN or the I-SID. Lower the severity to narrow the cause of failures. The cause could be in the PSI library or the low on memory in the system.

Remedy

Retry the configuration so that the ports are re-deleted from the flooding group of I-SID or VLAN.

Severity

Debug-Summary

Message Text

Failed to remove CNP ports in VLAN `%vlanName%` from PSI of I-SID `%isidName%` when `%info%`.

Message Parameters

Name	Type
vlanName	String
isidName	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.RemBVLANFromISIDPSIFail

Description

The message indicates the failure in removing a Provider VLAN from the floodin group of the VLAN or the I-SID. Lower the severity to narrow the cause of failures. The cause could be in the PSI library or the low on memory in the system.

Remedy

Retry the configuration so that the ports are re-deleted from the flooding group of I-SID or VLAN.

Severity

Debug-Summary

Message Text

Failed to remove PNP ports in VLAN `%vlanName%` from PSI of I-SID `%isidName%` when `%info%`.

Message Parameters

Name	Type
vlanName	String
isidName	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.UpdtPSIFail

Description

The message indicates the failure in programming the IOB as a VLAN is added or removed to/from the I-SID. Lower the severity to narrow the cause of failures. The cause could be in the status change of IOB, the PSI library or the low on memory in the system.

Remedy

Retry the configuration so that the IOB can get the new Flood group index.

Severity

Debug-Summary

Message Text

Failed to update the PSI of VLAN, `%vlanName%` to the PSI of `%ownerName%` when `%info%`.

Message Parameters

Name	Type
vlanName	String
ownerName	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.UpdtPortEncTblFail

Description

The message indicates the failure in creating or removing an entry in the PortEncoding table in IOB. Lower the severity to narrow the cause of failures. The cause could be in the PSI librar, the conduit pipe to the given slot, or the low on memory in the system.

Remedy

Retry the configuration so that the entry is re-created or removed in the PortEncoding table in X11 associated to the given slot and port.

Severity

Debug-Data

Message Text

Failed to update portEncoding table for port `%slot%:%port%` in `%vlanName%` associated to `%isidName%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanName	String
isidName	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AddCNPToPSIFail

Description

The message indicates the failure in adding a Customer Networ port to the flood group of I-SID. Lower the severity to narrow the cause of failures. The cause could be in the PSI library, the conduit pipe to the given slot, or the low on memory in the system.

Remedy

Retry the configuration so that the ports are re-added to the flood group of I-SID.

Severity

Debug-Summary

Message Text

Failed to add a port `%slot%:%port%` in VLAN `%vlanName%` to I-SID `%isidName%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanName	String
isidName	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AddPNPToPSIFail

Description

The message indicates the failure in adding a Provider Networ port to the flood group of I-SID. Lower the severity to narrow the cause of failures. The cause could be in the PSI library, the conduit pipe to the given slot, or the low on memory in the system.

Remedy

Retry the configuration so that the ports are re-added to/from the flood group of the I-SID.

Severity

Debug-Summary

Message Text

Failed to add a port `%slot%:%port%` in VLAN `%vlanName%` associated to I-SID `%isidName%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanName	String
isidName	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.RemCNPFromPSIFail

Description

The message indicates the failure in removing a Customer Networ port from the flood group of I-SID. Lower the severity to narrow the cause of failures. The cause could be in the PSI library, the conduit pipe to the given slot, or the low on memory in the system.

Remedy

Retry the configuration so that the ports are deleted from the flood group of the I-SID.

Severity

Debug-Summary

Message Text

Failed to add a port `%slot%:%port%` in VLAN `%vlanName%` associated to I-SID `%isidName%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanName	String
isidName	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.RemPNPFromPSIFail

Description

The message indicates the failure in removing a Provider Networ port from the flood group of I-SID. Lower the severity to narrow the cause of failures. The cause could be in the PSI library, the conduit pipe to the given slot, or the low on memory in the system.

Remedy

Retry the configuration so that the ports are re-deleted from flood group of the I-SID.

Severity

Debug-Summary

Message Text

Failed to add a port `%slot%:%port%` in VLAN `%vlanName%` associated to I-SID `%isidName%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanName	String
isidName	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.OpenCndtFail

Description

This message indicates that the conduit library fails to process the request from the PBB management module to create a conduit pipe and to register the message types.

Remedy

MM needs to be rebooted because the HAL process cannot be restarted. Before rebooting the system, decrease the log severity of the conduit module to gather more information when the error persists.

Severity

Error

Message Text

Failed to open a conduit pipe due to `%ret%`.

Message Parameters

Name	Type
ret	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.EnblFail

Description

This message indicates that the PBB functions are not enabled on the ports added to the given VLAN. The cause could be in the PSI library, the conduit pipe to the given slot, or the low on memory in the system.

Remedy

Retry the configuration so that the ports are added to the I-SID flood group and the IOB is programmed correctly.

Severity

Error

Message Text

Failed to enable 802.1ah functionalities on the port `%slot%`:`%port%`in VLAN `%vlanName%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanName	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.DsblFail

Description

This message indicates that the PBB functions are not disabled on the ports removed from the given VLAN. The cause could be in the PSI library, the conduit pipe to the given slot, or the low on memory in the system. The side effect is that the port behaves as if it is still associated to the I-SID.

Remedy

Retry the configuration so that the ports are added to the I-SID flood group and the IOB is programmed correctly.

Severity

Error

Message Text

Failed to disable 802.1ah functionalities on the port `%slot%`:`%port%`in VLAN `%vlanName%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanName	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.SyncISIDPSIFail

Description

This message indicates that the MM fails to send down all the I-SID configuration to IOB in the given slot.

Remedy

Examine the output of "show log" to see if dot1ah or conduit module raised any errors. If no errors are found, reboot the IOB in the given slot. Before rebooting the IOB, decrease the log severity of the Dot1ah and Conduit module to gather more information when the error persists.

Severity

Error

Message Text

Failed to synchronize the PSIs of I-SIDs to IO-`%slot%` for 802.1ah.

Message Parameters

Name	Type
slot	Slot

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.MaxTunlRch

Description

Create of PBB Tunnel failed as the number of PBB tunnels has reached the maximum supported limit. Please refer to EXOS documentation on supported limits on PBB tunnels for this release. Due to this limit being reached, learning of inner MAC entries for traffic that is received on the displayed BVLAN instance, encapsulated by the 802.1ah BEB whose MAC address is displayed will be impacted. Learning of new inner MACs encapsulated by other BEBs is unaffected.

Remedy

Clearing FDB on 802.1ah B-VLANs using clear fdb <bvlan_name> may free up of unused PBB tunnels. If the problem persists, contact Extreme customer support.

Severity

Warning

Message Text

`%info%` Create Failed - Number of PBB tunnels exceeds supported limit

Message Parameters

Name	Type
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.MaxBMACRch

Description

Create of PBB Tunnel failed as the number of Backbone Edge Bridge (BEB) BMACs has reached the maximum supported limit. Please refer to EXOS documentation on supported limits on PBB tunnels for this release.Due to this limit being reached, learning of inner MAC entries for traffic that is encapsulated by the 802.1ah BEB whose MAC address is displayed will be impacted. Learning of new inner MACs encapsulated by other BEBs is unaffected.

Remedy

Clearing FDB on 802.1ah B-VLANs using clear fdb <bvlan_name> may free up of unused BEB BMACs. If the problem persists, contact Extreme customer support.

Severity

Warning

Message Text

`%info%` Create failed - Number of Backbone Edge Bridge BMAC exceeds supported limit

Message Parameters

Name	Type
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.TunlIndxInv

Description

A Tunnel operation failed as an internal function was called with an invalid index. While this error may not affect normal operation, it may be a symptom of a more serious inconsistency in the system

Remedy

Contact Extreme customer support with details of the error message

Severity

Error

Message Text

Operation `%oper%` failed as the supplied Tunnel Index `%idx%` was invalid

Message Parameters

Name	Type
oper	String
idx	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.TunlOperFail

Description

The PBB Tunnel operation specified in the displayed message has failed. This will result in incorrect programming of hardware tables and will impact forwarding of IEEE 802.1ah conformant traffic. Possible operations that can fail for the displayed tunnel include: Create, DeleteStart, DeleteClear, RefreshStart, RefreshClear, DeleteCommit, MM-IO reconciliation, Encap Create.

Remedy

Clearing FDB on IEEE 802.1ah B-VLANs might resolve the problem. If the problem persists, contact Extreme customer support

Severity

Error

Message Text

`%info%` Operation `%oper%` failed returning `%rc%`

Message Parameters

Name	Type
oper	String
info	String
rc	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.TunlBatchOperTrace

Description

The system is trying to execute a batch operation for the displayed action. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This is an informational message that may be useful in monitoring batching operations in PBB.

Severity

Debug-Summary

Message Text

Batch operation `%oper%` for action `%action%`

Message Parameters

Name	Type
oper	String
action	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.OperTimeTrace

Description

The time taken in milliseconds by an internal operation is displayed. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This is an informational message that may be useful in monitoring the performance of the system

Severity

Debug-Summary

Message Text

Time taken by operation `%oper%` is `%time%` ms

Message Parameters

Name	Type
oper	String
time	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.TunlBatchOperFail

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available

Severity

Error

Message Text

Batch Operation `%oper%` failed for action `%action%` returning `%rc%`

Message Parameters

Name	Type
oper	String
action	String
rc	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.MemAllocTrace

Description

This message it for debugging problems related to memory allocation for PBB Tunnels. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This is an informational message that may be useful in monitoring the memory management performance of the system

Severity

Debug-Verbose

Message Text

Memory for `%info%` was `%oper%`

Message Parameters

Name	Type
oper	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AllocEncapIndxTrace

Description

This message it for debugging problems related to Encap Index allocation for PBB Tunnels. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This is an informational message that may be useful in monitoring Encap index allocation

Severity

Debug-Data

Message Text

`%info%` Encap Index `%index%` was `%oper%`

Message Parameters

Name	Type
oper	String
index	uInt16
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AllocTunlIndxTrace

Description

This message it for debugging problems related to Tunnel Index allocation for PBB Tunnels. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This is an informational message that may be useful in monitoring Tunnel index allocation

Severity

Debug-Data

Message Text

`%info%` Tunnel Index `%index%` was `%oper%`

Message Parameters

Name	Type
oper	String
index	uInt16
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AllocTunlMsgFail

Description

The specified PBB Tunnel message could not be constructed and sent to one or more I/O Modules due to event buffer allocation failure. This will result in incorrect programming of hardware tables and will impact forwarding of IEEE 802.1ah conformant traffic.

Remedy

The system is low on memory resources. The configuration should be reduced in scale or complexity in order for the system to continue operating correctly.

Severity

Critical

Message Text

Failed to allocate event buffer for message `%info%`

Message Parameters

Name	Type
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.AllocMsgTrace

Description

This message it for debugging problems related to MM-IO Module communication for PBB Tunnels. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve MM-IO communication

Severity

Debug-Verbose

Message Text

`%oper%` message `%info%`

Message Parameters

Name	Type
oper	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.StateTransInv

Description

An invalid state transition occured during PBB Tunnel FSM operation. This is not expected and may result in PBB-related Hardware tables not getting programmed correctly.

Remedy

Contact Extreme customer support with details of the error message

Severity

Error

Message Text

`%info%` FSM Invalid State transition - Current State:[`%state%`] Event:[`%event%`]

Message Parameters

Name	Type
info	String
state	String
event	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.StateTransTrace

Description

This message it for debugging problems related to PBB Tunnels Finite State Machine. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve PBB Tunnel FSM

Severity

Debug-Verbose

Message Text

`%info%` FSM Current State:[`%state%`] Event:[`%event%`] `%action%` State:[`%newstate%`]

Message Parameters

Name	Type
info	String
state	String
event	String
action	String
newstate	String

HAL.PBB.AllocTunlCkptMsgFail

Description

The specified PBB Tunnel checkpointing message could not be constructed and sent to the standby MM due to event buffer allocation failure. This will result in the PBB Tunnel database on the standby MM not being in sync with that on the active MM. This condition will not impact PBB operation until after a failover of the currently active MM.

Remedy

The system is low on memory resources. The configuration should be reduced in scale or complexity in order for the system to continue operating correctly. Once the configuration is scaled down and memory has been reclaimed, reboot of the standby MM will fix the problem

Severity

Error

Message Text

Failed to allocate checkpoint message with `%entries%` entries for `%action%`

Message Parameters

Name	Type
action	String
entries	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.TunlCkptTrace

Description

This message it for debugging problems related to active-standby MM Module checkpointing for PBB Tunnels. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve active-standby MM checkpointing

Severity

Debug-Verbose

Message Text

`%oper%` with action `%action%` with a maximum of `%entries%` entries in message

Message Parameters

Name	Type
oper	String
action	String
entries	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.SlotSyncTrace

Description

his message it for debugging problems related to MM-IO Module communication at slot startup for PBB Tunnels. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve MM-IO communication

Severity

Debug-Summary

Message Text

```
%action% %info%
```

Message Parameters

Name	Type
action	String
info	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.MsgVerInv

Description

An unsupported version number was used when constructing the displayed message used for communcation with the I/O Modules. This may be a symptom software bug or memory corruption

Remedy

Contact Extreme customer support with details of the error message

Severity

Error

Message Text

Unsupported version `%ver%` in `%msg%` message

Message Parameters

Name	Type
msg	String
ver	uInt8

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.SetMsgData

Description

This message it for debugging problems related to MM-IO Module communication for PBB Tunnel Set Messages. This is normal and does not indicate a problem

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve MM-IO communication

Severity

Debug-Verbose

Message Text

`%inst%:::%mac%` Idx `%idx%` `%action%` Set message with DestId `%dest%`

Message Parameters

Name	Type
action	String
inst	uInt32
mac	MAC
dest	uInt16
idx	uInt16

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.UpdMsgData

Description

This message it for debugging problems related to MM-IO Module communication for PBB Tunnel Update Messages. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve MM-IO communication

Severity

Debug-Verbose

Message Text

Idx `%idx%` `%action%` Update Message

Message Parameters

Name	Type
action	String
idx	uInt16

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.EncapMsgData

Description

This message it for debugging problems related to MM-IO Module communication for PBB Tunnel Encap Messages. This is normal and does not indicate a problem.

Remedy

There is no rememdy as this message is being displayed for debugging. This log message is intended to help debug problems that may involve MM-IO communication

Severity

Debug-Verbose

Message Text

`%mac% %action%` Encap message with Index `%idx%`

Message Parameters

Name	Type
action	String
idx	uInt16
mac	MAC

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.MaxMsgEntExcd

Description

Construction of the specified PBB Tunnel message intended to be sent to I/O modules has failed. The limit on the number of entries that can packed in a single message has been exceeded. This is most likely caused due to memory corruption or due to a software bug.

Remedy

Contact Extreme customer support with details of the error message

Severity

Error

Message Text

`%msg%` pack failed - Number of entries `%entries%` exceeds size limit

Message Parameters

Name	Type
msg	String
entries	uInt16

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.RecvMsgVerInv

Description

An unsupported version number was used when processing the displayed message used for communcation with the I/O Modules. This may be a symptom of version incompatibility between the MM and one or more of the I/O Modules.

Remedy

Ensure the software versions are compatible. The I/O Module may require a reboot (disable/enable)

Severity

Warning

Message Text

Unsupported version `%ver%` in `%msg%` message

Message Parameters

Name	Type
msg	String
ver	uInt8

Applicable Platforms

- I386 virtual machine switch simulator

HAL.PBB.IndxMisMatch

Description

A received index of the displayed type did not match with the index currently in the PBB Tunnel Database. This is unexpected and can indicate that the standby MM is out of sync with the active MM.

Remedy

Reboot of the standby MM might fix the issue. If the problem persists, contact Extreme Customer support with details of the error message

Severity

Warning

Message Text

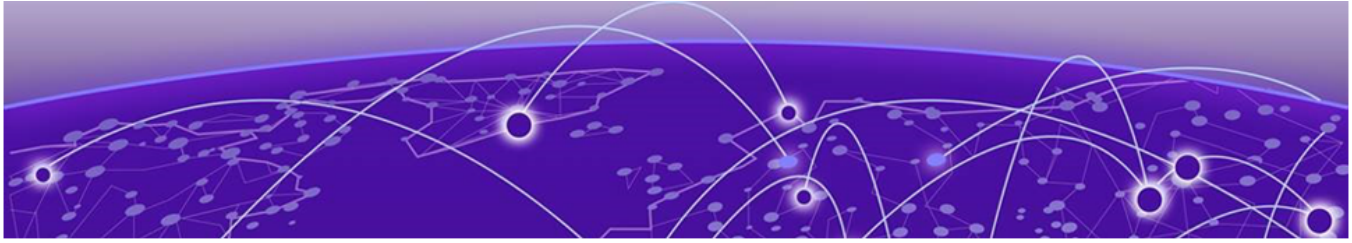
`%type%` mismatch - Received Index `%rcvidx%` Current Index `%curridx%`

Message Parameters

Name	Type
type	String
rcvidx	uInt16
curridx	uInt

Applicable Platforms

- I386 virtual machine switch simulator



HAL.Phy Messages

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HAL.Phy.FuncFail on page 2122
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HAL.Phy.AllocMemFail on page 2123
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HAL.Phy.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Phy.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Phy.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Phy.FuncFail

Description

A function call to a hardware PHY device failed. This problem is usually due to a failure of accessing a hardware register. The hardware may be in a bad state. The error message gives the detail of the failure.

Remedy

The problem usually can be resolved by retrying the operation or power-cycling the switch or the card in the slot.

Severity

Error

Message Text

The call to `%funcName%` failed for phyId `%phyId%` retVal `%rv%`

Message Parameters

Name	Type
funcName	String
phyId	uInt
rv	sInt

HAL.Phy.MACsecFuncFail

Description

A function call to a hardware PHY device failed. This problem is usually due to a failure of accessing a hardware register. The hardware may be in a bad state. The error message gives the detail of the failure.

Remedy

The problem usually can be resolved by retrying the operation or power-cycling the switch or the card in the slot.

Severity

Error

Message Text

The call to `%funcName%` for the `%macsecSide%` side of MACsec Phy Id `%phyId%` failed with the return value of `%rv%`

Message Parameters

Name	Type
funcName	String
macsecSide	String
phyId	uInt
rv	sInt

HAL.Phy.AllocMemFail

Description

Allocating memory for an internal data structure for communication to the PHY failed. This usually happens when the system is running out of memory.

Remedy

Run "show memory" command to further debug this problem. The problem may be resolved by deleting some configurations, retrying the operation or reboot.

Severity

Error

Message Text

Failure to allocate memory for object `%object%` for phyId `%phyId%`

Message Parameters

Name	Type
object	String
phyId	uInt

HAL.Phy.PhyInfoNotFound

Description

This condition signifies that an operation was directed to be performed on a PHY device and the information to talk to that device was not found. This typically means that the PHY had not registered with the driver at the time of the call.

Remedy

No action required - Informational message only.

Severity

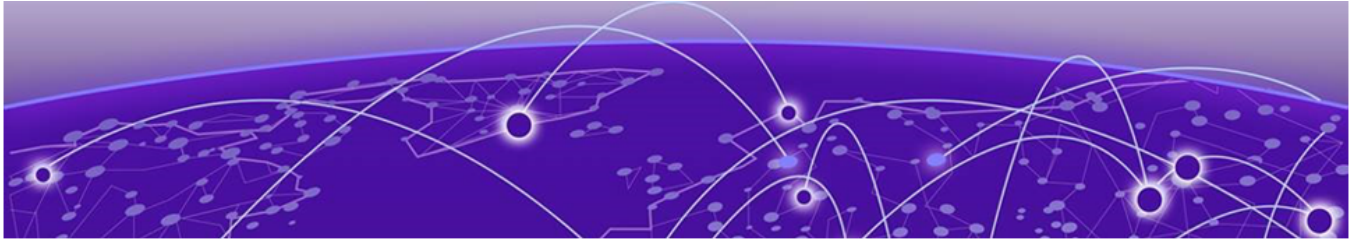
Info

Message Text

Unable to find PHY info for phyId `%phyId%`

Message Parameters

Name	Type
phyId	uInt



HAL.PoE Messages

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HAL.PoE.HwFastEnblMisMatch on page 2133
HAL.PoE.HwFastCfgMisMatch on page 2134
HAL.PoE.PurgOldHwFastCfg on page 2134
HAL.PoE.SkipHwInitAlrdyOper on page 2135
HAL.PoE.GetHwFastEnblFail on page 2135
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HAL.PoE.UpdtHwFastCfgOK on page 2136
HAL.PoE.UpdtHwFastCfgFail on page 2137

HAL.PoE.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PoE.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PoE.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PoE.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PoE.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PoE.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PoE.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PoE.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PoE.GetResetStatusFail

Description

Querying FPGA/CPLD for the current reset status of PoE failed.

Remedy

Hardware may not be responding or in a bad state. Power-cycling the switch may resolve the issue.

Severity

Error

Message Text

Failed to get PoE reset status.

HAL.PoE.HwRmnInReset

Description

PoE hardware did not take PoE out of reset at boot time for fast PoE, perpetual PoE or both.

Remedy

This is a rare error condition. Power cycling the switch may resolve the issue.

Severity

Error

Message Text

PoE hardware is not out of reset for `%name%` PoE at boot time.

Message Parameters

Name	Type
name	Printf

HAL.PoE.AllocFastCfgMemFail

Description

Allocating memory for saving fast PoE configurations failed at HAL initialization time.

Remedy

Switch is running out system memory at boot time. Reducing the configurations in the configuration file may resolve the issue.

Severity

Error

Message Text

Failed to allocate memory for fast PoE configurations.

HAL.PoE.GetPwrMgmtCfgFail

Description

Querying power management configurations from PoE hardware at boot time failed. PoE will be reset by software.

Remedy

The hardware is not up and running properly. Software will reset PoE hardware, which may resolve the issue.

Severity

Error

Message Text

Failed to get PoE power management config, PoE may not be up yet.

HAL.PoE.GetHwFastCfgFail

Description

Querying running configurations from PoE hardware for fast PoE at boot time failed. PoE will be reset by software. PoE will be reset by software.

Remedy

The hardware is not up and running properly. Software will reset PoE hardware, which may resolve the issue.

Severity

Error

Message Text

Failed to query hardware for fast PoE configurations.

HAL.PoE.HwFastCfgMiss

Description

The well-known info object, FAST_POE_ENABLE_INFO_OBJ, indicates fast PoE is enabled. But the PoE hardware is not running with configurations saved for fast PoE at boot time.

Remedy

This error indicates fast PoE is in an inconsistent state, which may be caused by a failure of saving fast PoE configurations to hardware in the last boot. CLI command, "save configuration", will resolve the issue.

Severity

Warning

Message Text

Warning Fast PoE is enabled but configurations are not found in hardware. Saving configuration will resolve this inconsistency.

HAL.PoE.HwFastEnblMisMatch

Description

The fast PoE enable state found in the well-known info object, FAST_POE_ENABLE_INFO_OBJ, at boot time does not match the configuration file.

Remedy

This error usually occurs when user selects a different configuration file, e.g. "use configuration xyz", in the last reboot. This also could happen in the next boot when perpetual PoE is enabled and user changed fast PoE enable state and rebooted the switch without saving the configuration. The new configuration file has a different fast PoE enable setting from the one saved to the hardware. CLI command, "save configuration", will resolve the issue.

Severity

Warning

Message Text

Fast PoE is `%enableState%` in hardware but not in configuration file. Saving configuration will resolve this inconsistency.

Message Parameters

Name	Type
enableState	Printf

HAL.PoE.HwFastCfgMisMatch

Description

The PoE running configurations queried from hardware at boot time do not match the configurations loaded from the configuration

Remedy

This error usually occurs when user selects a different configuration file, e.g. "use configuration xyz", in the last reboot. This also could happen in the next boot when perpetual PoE is enabled and user changed fast PoE enable state and rebooted the switch without saving the configuration. The new configuration file has a different fast PoE enable setting from the one saved to the hardware. CLI command, "save configuration", will resolve the issue.

Severity

Warning

Message Text

Fast PoE configurations found in hardware at boot time do not match configuration file. Saving configuration will resolve this inconsistency.

HAL.PoE.PurgOldHwFastCfg

Description

The well-known info object, FAST_POE_ENABLE_INFO_OBJ, indicates fast PoE is disabled. The switch also has perpetual PoE disabled. But the configurations queried from PoE hardware at boot time are not defaults, which indicates fast PoE configurations are still saved in hardware and used at boot time.

Remedy

This is a rare error. It may be caused by the failure of clearing fast PoE configuration from hardware in the last boot or the switch's NVRAM is cleared. When this inconsistent state is detected, the software resolves it by clearing the fast PoE configurations from hardware.

Severity

Warning

Message Text

Fast PoE is disabled in hardware but configurations are still found in hardware - clearing them now.

HAL.PoE.SkipHwInitAlrdyOper

Description

HAL PoE skips hardware initialization when fast PoE or perpetual boot successfully.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

PoE already operational, skip hardware initialization.

HAL.PoE.GetHwFastEnblFail

Description

Read the well-known info object, FAST_POE_ENABLE_INFO_OBJ, for fast PoE enable state failed.

Remedy

This is an unexpected error. Please contact Customer Service to report this error.

Severity

Error

Message Text

Failed to get hardware fast PoE enable, `%errmsg%`

Message Parameters

Name	Type
errmsg	Printf

HAL.PoE.SetHwFastEnblFail

Description

Write the well-known info object, FAST_POE_ENABLE_INFO_OBJ, for fast PoE enable state failed.

Remedy

This is an unexpected error. Please contact Customer Service to report this error.

Severity

Error

Message Text

Failed to update hardware fast PoE enable, `%errmsg%`

Message Parameters

Name	Type
errmsg	Printf

HAL.PoE.UpdtHwFastCfgOK

Description

Fast PoE configurations has been saved or cleared in hardware successfully.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Fast PoE configurations `%action%` in hardware`%purpose%`

Message Parameters

Name	Type
action	String
purpose	String

HAL.PoE.UpdtHwFastCfgFail

Description

Saving or clearing fast PoE configurations to or from hardware has failed.

Remedy

This error may be resolved by re-issuing the "save configuration" CLI command.

Severity

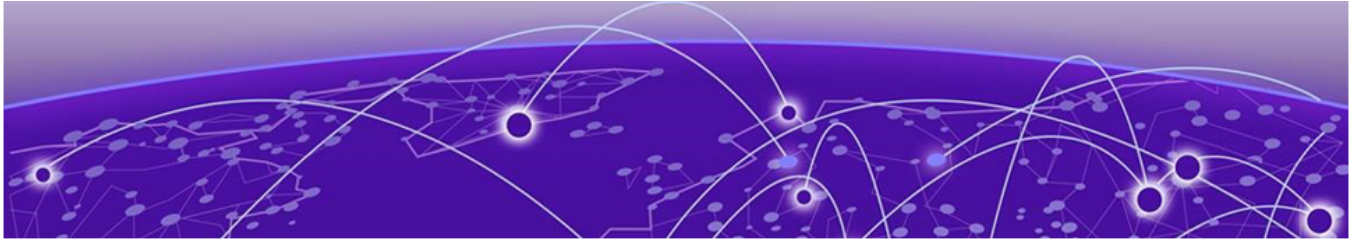
Error

Message Text

Failed to `%action%` fast PoE in hardware`%purpose%`

Message Parameters

Name	Type
action	String
purpose	String



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HAL.Port.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Port.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in

general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Port.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Port.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Port.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Port.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Port.ClrCngstStatsFail

Description

Clearing congesiton statistics for a port failed on hardware.

Remedy

This problem is usually due to a failure of accessing a hardware register. The hardware may be in a bad state. The error message gives the detail of the failure. The problem usually can be resolved by retrying the operation or power-cycling the switch or the card in the slot.

Severity

Error

Message Text

Failed to clear congestion statistics for port `%slotPort%`: `%errMsg%`

Message Parameters

Name	Type
slotPort	SlotPort
errMsg	String

HAL.Port.RateLimit

Description

Hardware flood rate-limiting counters incremented on the port.

Remedy

The operator may want to investigate the traffic at the port that is rate-limiting.

Severity

Debug-Summary

Message Text

Flood Rate Limiting activated on Port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

HAL.Port.OpticNotCompatPlatType

Description

An optic module of a particular type which is not compatible with the types of ports on this platform has been inserted into a port. The optic module can not and will not work in the specified port.

Remedy

Remove the incompatible optic from the port and replace it with one that is supported in that port.

Severity

Warning

Message Text

The `%optic%` optic module is not compatible with the `%portType%` ports on this platform - please remove it from port `%slotPort%`.

Message Parameters

Name	Type
optic	String
slotPort	SlotPort
portType	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.OpticNotCompatPort

Description

An optic module of a particular type has been inserted into a port on this platform with which it is not compatible. The optic module can not and will not work in the specified port.

Remedy

Remove the incompatible optic from the port and replace it with one that is supported in that port.

Severity

Warning

Message Text

The `%optic%` optic module is not compatible with this port on this platform - please remove it from port `%slotPort%`.

Message Parameters

Name	Type
optic	String
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.OpticNotCompatPortType

Description

An optic module of a particular type has been inserted into a port of a type with which it is not compatible. The optic module can not and will not work in the specific port.

Remedy

Remove the incompatible optic from the port and replace it with one that is supported in that port.

Severity

Warning

Message Text

The `%optic%` optic module is not compatible with `%portType%` ports - please remove it from port `%slotPort%`.

Message Parameters

Name	Type
optic	String
slotPort	SlotPort
portType	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.OpticCfgCflct

Description

An optic module of a particular type has been inserted into a port which is not configured correctly for it.

Remedy

Change the configuration of the port to be correct for the optic module, or remove the optic module from the port and replace it with one for which the port is correctly configured.

Severity

Warning

Message Text

The configuration for the `%optic%` optic module is not correct - please configure port `%slotPort%` for auto-negotiation `%autoNeg%` and speed `%speed%`

Message Parameters

Name	Type
optic	String
slotPort	SlotPort
autoNeg	String
speed	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.OpticCfgSpeedCflct

Description

An optic module of a particular type has been inserted into a port which is not configured for a speed configured that is consistent with it.

Remedy

Reconfigure the port for a speed that is consistent with the optic module that is inserted.

Severity

Warning

Message Text

The configured speed of `%speed%` conflicts with the `%optic%` optic module - please correct the configuration for port `%slotPort%`

Message Parameters

Name	Type
optic	String
slotPort	SlotPort
speed	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.CfgOpticFail

Description

The configuration of the hardware for particular optic module failed on the specified port.

Remedy

This could indicate a hardware problem related with the optic module or with the port itself.

Severity

Warning

Message Text

Configuration for the `%optic%` optic module in port `%slotPort%` failed (code `%errCode%`)

Message Parameters

Name	Type
optic	String
slotPort	SlotPort
errCode	sInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.CfgOpticAutoNegFail

Description

Setting the auto-negotiation mode in the hardware for the particular optic module failed on the specified port.

Remedy

This could indicate a hardware problem related with the optic module or with the port itself.

Severity

Error

Message Text

Configuring auto-negotiation `%autoNeg%` for the `%optic%` optic module in port `%slotPort%` failed (code `%errCode%`).

Message Parameters

Name	Type
optic	String
slotPort	SlotPort
autoNeg	String
errCode	sInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.ClrAllStatsFail

Description

Clearing statistics for all ports in a slot failed on hardware.

Remedy

This problem is usually due to a failure of accessing a hardware register. The hardware may be in a bad state. The error message gives the detail of the failure. The problem usually can be resolved by retrying the operation or power-cycling the switch or the card in the slot.

Severity

Error

Message Text

Failed to clear statistics for all ports in slot `%slot%`: `%errMsg%`

Message Parameters

Name	Type
slot	Slot
errMsg	String

HAL.Port.ClrQoSTxStatsFail

Description

Clearing per QoS TX statistics for a port failed on hardware.

Remedy

This problem is usually due to a failure of accessing a hardware register. The hardware may be in a bad state. The error message gives the detail of the failure. The problem usually can be resolved by retrying the operation or power-cycling the switch or the card in the slot.

Severity

Error

Message Text

Failed to clear per QoS TX statistics for port `%slotPort%`: `%errMsg%`

Message Parameters

Name	Type
slotPort	SlotPort
errMsg	String

HAL.Port.AddTrunkFail

Description

Failed to create trunk instance in the hardware due to a mismatch in the software data-structure.

Remedy

It is an inconsistent state. To add the new trunk, the system needs to be rebooted.

Severity

Warning

Message Text

Failed to create the trunk `%slot%`:`%port%` in Hardware

Message Parameters

Name	Type
slot	Slot
port	Port

HAL.Port.CfgTrunkInstFail

Description

When a trunk is configured,,a Trunk Instance information is created in the hardware. This information is not passed to the I/O slot (software data-structure) in this case.

Remedy

Disable and re-enable sharing for the given slot,port.

Severity

Warning

Message Text

Failed to configure the Trunk Instance information to the I/O slots for the trunk `%slot%:%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

HAL.Port.CfgTrunkStateFail

Description

When ports comes up or go down the Trunk table has to be programmed with the current set of operational members. This error indicates that there is an erorr in writing the active port information to the I/O Slot.

Remedy

Disable and re-enable sharing for the given slot,port.

Severity

Warning

Message Text

Failed to configure the active trunk members to the I/O slots for the trunk `%slot%:%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

HAL.Port.CkptTrunkStateFail

Description

When there are operational changes in a trunk (member port goes down or comes up) the status is check-pointed to the backup MM from the master MM. This error indicates an error in such an updation.

Remedy

Disable and re-enable sharing for the given slot,port.

Severity

Warning

Message Text

Failed to Checkpoint the status information to the backup for the trunk `%slot%:%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

HAL.Port.CkptTrunkDelFail

Description

When the sharing is disabled the master MSM indicates to the backup MSM that the trunk index is no longer in use. This error indicates that the check-point information has failed.

Remedy

reboot the backup MSM

Severity

Error

Message Text

Failed to Checkpoint the trunk delete information to the backup for the trunk `%slot%:%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

HAL.Port.LinkUpEventRecv

Description

When MM receives link up event from IOB, this event is generated.

Remedy

None. This an event.

Severity

Debug-Summary

Message Text

Link up event received from IOB for port `%slot%:%port%`. Time Stamp is `%timeStamp%`

Message Parameters

Name	Type
slot	Slot
port	Port
timeStamp	uInt

HAL.Port.LinkDownEventRecv

Description

When MM receives link down event from IOB, this event is generated.

Remedy

None. This an event.

Severity

Debug-Summary

Message Text

Link down event received from IOB for port `%slot%:%port%`. Time Stamp is `%timeStamp%`

Message Parameters

Name	Type
slot	Slot
port	Port
timeStamp	uInt

HAL.Port.GBICFEFIEnbl

Description

FEFI mode for the port mentioned is enabled in the Phy

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

Fefi Mode enabled for `%slotport%`

Message Parameters

Name	Type
slotport	SlotPort

Applicable Platforms

- Summit family switches

HAL.Port.GBICFEFIDsbl

Description

FEFI mode for the port mentioned is disabled in the Phy

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

Fefi Mode disabled for `%slotport%`

Message Parameters

Name	Type
slotport	SlotPort

Applicable Platforms

- Summit family switches

HAL.Port.GBICPhyReg30LinkUp

Description

Reg 30 programmed with Link Up in the phy

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

Link Up is programmed in Reg 30 for `%slotport%`

Message Parameters

Name	Type
slotport	SlotPort

Applicable Platforms

- Summit family switches

HAL.Port.GBICPhyReg30LinkDown

Description

Reg 30 programmed with Link Down in the phy

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

Link Down is programmed in Reg 30 for `%slotport%`

Message Parameters

Name	Type
slotport	SlotPort

Applicable Platforms

- Summit family switches

HAL.Port.GBICFEFIBatchEnbl

Description

FEFI mode enabled for ports set in the 64 bit port Map. If there are any errors, error will be non zero and bit set will indicate that the corresponding port did not have FEFI enabled.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

FEFI mode enabled in batch for port map `%fefiPortMap%` error `%errorCode%`

Message Parameters

Name	Type
fefiPortMap	xInt64
errorCode	xInt64

Applicable Platforms

- Summit family switches

HAL.Port.GBICFEFIBatchDsbl

Description

FEFI mode disabled for ports set in the 64 bit port Map. If there are any errors, error will be non zero and bit set will indicate that the corresponding port did not have FEFI disabled.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

FEFI mode disabled in batch for port map `%fefiPortMap%` error `%errorCode%`

Message Parameters

Name	Type
fefiPortMap	xInt64
errorCode	xInt64

Applicable Platforms

- Summit family switches

HAL.Port.PFCUnsuprt

Description

A Priority Flow Control configuration was applied on a port that does not support it. The 8900-10G24X-c and X650 systems have newer models that do support PFC but the configuration was applied to an older model without the support.

Remedy

This problem exists if the port is on an older version of the 8900-10G24X-c or Summit X650 that doesn't support PFC. The user needs to change to an I/O module or system that supports PFC. 8900-10G24X-c model 41632B, X650 models 17001B and 17002B, and the VIM-10G8X model 17012B support PFC.

Severity

Warning

Message Text

`%slotport%` is on an older model of the 8900-10G24X-c or X650 and does not support Priority Flow Control. 8900-10G24X-c 41632B, X650 17001B and 17002B, and VIM-10G8X 17012B are new models that support PFC.

Message Parameters

Name	Type
slotport	SlotPort

HAL.Port.PFCSubOptim

Description

A PFC configuration was applied to a chassis that contains MSMs that do not support fabric flow control. If ingress and egress ports are on different I/O modules, PFC may not work as expected.

Remedy

The customer can continue with the configuration, which may work in his environment. However, if fabric flow control is needed, the older MSMs will need to be replaced with newer MSMs that support the fabric configuration.

Severity

Warning

Message Text

Priority Flow Control is enabled but system behavior will not be optimal since older MSMs are present that cannot be programmed for fabric flow control.

HAL.Port.CfgDWDMOpticChanFail

Description

Setting the channel number in the hardware for the particular optic module failed on the specified port. This could indicate the optic module in the port does not support the optical wavelength associated with the channel number requested for

configuration. Or, it could indicate a hardware problem with the optic module or with the port itself.

Remedy

Check supportability information from XFP vendor and Extreme Networks. The problem may be resolved by retrying the operation.

Severity

Error

Message Text

Configuring operation failed for DWDM Channel `%channelNumber%` for the optic module in port `%slotPort%`.

Message Parameters

Name	Type
channelNumber	uInt
slotPort	SlotPort

HAL.Port.DWDMOpticNotSuprt

Description

The tunable DWDM optic module inserted in port %slotPort% is not certified by Extreme Networks. Channel configuration may fail on optical modules that are not Extreme Networks Certified.

Remedy

Remove the optic module from the port and replace it with an Extreme Networks certified optical module. Or, remove DWDM configuration on the port using 'configure ports <port-list> dwdm channel default'

Severity

Warning

Message Text

The `%optic%` optic module in port `%slotPort%` is not certified by Extreme Networks; therefore DWDM channel configuration may fail.

Message Parameters

Name	Type
optic	String
slotPort	SlotPort

HAL.Port.ReadOpticDDMIDataFail

Description

An error has occured while reading DDMI operating parameters from the optical module EEPROM. The reason for this error could be that there is no DDMI information present on the optical module or the EEPROM i2c read has failed.

Remedy

Issue the "show log" command and check to determine if the optical module is not DDMI-capable. If the error occured on a DDMI-capable module, determine if the condition persists or it is a problem with the optical module or the port. You can do this by checking if the optical module works in another port and if this port works with an optical module known to work correctly.

Severity

Error

Message Text

Reading of DDMI data failed on the optical module in port `%slotPort%`.

Message Parameters

Name	Type
slotPort	SlotPort

HAL.Port.CfgDWDMOpticChanInv

Description

Configuring the channel number for the particular optic module failed on the specified port. This could indicate the optic module in the port does not support the optical wavelength associated with the channel number requested for configuration.

Remedy

Issue the "show dwdm channel-map port <p1>" command to determine the supported channels by the optic module.

Severity

Warning

Message Text

Configuring operation failed for DWDM Channel `%channelNumber%` due to a channel mapping error.

Message Parameters

Name	Type
channelNumber	uInt
slotPort	SlotPort

HAL.Port.FabFlowCtrlUnsuprt

Description

A Priority Flow Control configuration is applied to a stack that includes a Summit X670 or X670V which does not support fabric flow control messages on alternate stack ports or V80 native stack ports. These fabric flow control messages are required to provide priority flow control between ports on different slots in the stack. PFC between ports within the same slot will operate as expected.

Remedy

This is a hardware limitation on the X670 when using alternate stack ports or V80 native stack ports. PFC between ports on the same slot is not affected by this limitation. Stacking with V160 native stack ports supports fabric flow control messages and is the recommended stacking configuration for X670V if PFC is required between ports on different slots.

Severity

Warning

Message Text

Slot `%slot%` does not support fabric flow control messages on alternate stack ports or V80 native stack ports.

Message Parameters

Name	Type
slot	Slot

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.CableNotCompatPlatType

Description

A cable with unknown gauge has been inserted into a port on this platform with which it is not compatible.

Remedy

Remove the incompatible cable from the port and replace it with one that is supported on this platform.

Severity

Warning

Message Text

The `%optic%` cable detected in port `%slotPort%` is of unknown gauge and is not compatible with this platform - please remove it.

Message Parameters

Name	Type
optic	String
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.Chk10GPortLcnsFail

Description

This log message will occur when a 10G optic is inserted in the specified port and the 10G license is missing. This message can also occur at boot time, if the 10G optic is already present when the HAL transceiver thread is started.

Remedy

10G license needs to be installed for the port to work with 10G optics at 10G speed.

Severity

Warning

Message Text

10G license not present for port `%slotPort%`. Speed will be reduced to 1Gbps with auto-negotiation on.

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.OpticCfgVrfy

Description

This event will occur after a 10G license is installed on standby slot to advise the user to reconfugre the port to 10G speed if needed.

Remedy

Verify and change the configuration of the port to match the optic module present.

Severity

Warning

Message Text

The configuration for the optic module in port `%slotPort%` will need to be verified and corrected if needed. 10G optics need to be configured for auto-negotiation off and speed 10000.

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.OpticAutoNegDefault

Description

Auto-Negotiation enabled by default for fiber ports 25G and above. Check the peer port auto-negotiation setting as it should be the same.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Auto-Negotiation enabled by default for the transceiver module in port `%slotPort%`. Please verify that the peer has the same setting.

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator

HAL.Port.DWDMCfgCflct

Description

A non-tunable DWDM module is installed on a port with DWDM channel configuration.

Remedy

Remove DWDM channel configuration by doing "config port <> dwdm channel none"

Severity

Warning

Message Text

The optic module in port `%slotPort%` is not tunable. The DWDM channel configuration is being skipped.

Message Parameters

Name	Type
slotPort	SlotPort

HAL.Port.LRMMACsecAdaptNotCompat

Description

LRM/MACsec Adapter has been inserted into a port on this platform with which it is not compatible. The adapter can not and will not work in the specified port.

Remedy

Please refer to LRM/MACsec Adapter specification for list of compatible ports and platforms.

Severity

Warning

Message Text

LRM/MACsec Adapter is not compatible with this port on this platform - please remove it from port `%slotPort%`.

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Port.LRMMACsecAdaptMaxExcd

Description

LRM/MACsec Adapter has been inserted into a port on this platform which already contains maximum number of LRM/MACsec Adapters. The adapter can not and will not work in the specified port.

Remedy

Please refer to LRM/MACsec Adapter specification for list of compatible ports and platforms.

Severity

Warning

Message Text

Maximum number of LRM/MACsec Adapters have been exceeded on this platform - please remove it from port `%slotPort%`.

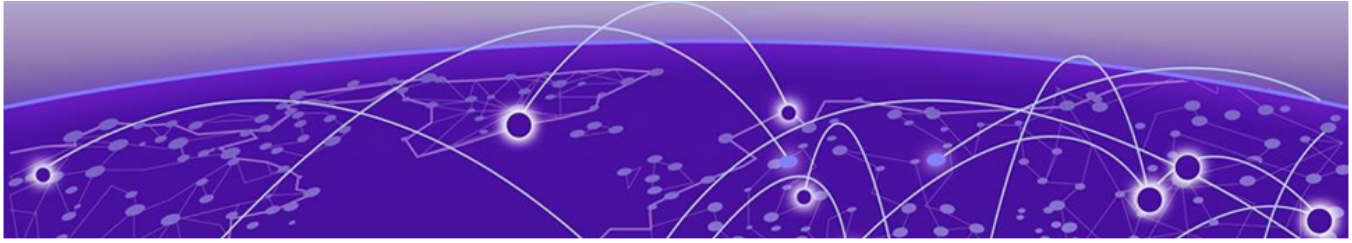
Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator



HAL.PTP Messages

HAL.PTP.DebugSummary on page 2169
HAL.PTP.DebugVerbose on page 2170
HAL.PTP.DebugData on page 2170
HAL.PTP.Error on page 2171
HAL.PTP.HwNotDtect on page 2171
HAL.PTP.InstlHwFiltTblFull on page 2172

HAL.PTP.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.PTP.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PTP.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PTP.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.PTP.HwNotDtect

Description

Because the PTP Clocking Hardware is not detected, the system is not able to retrieve the Hardware Address Mapping Information, so PTP functionality will be unavailable. This failure may be due to switch temperature being less than -35C.

Remedy

Check the temperature using the command: show temperature. Keep the switch powered on for around 30 minutes to warm up and then reboot.

Severity

Error

Message Text

The PTP Clocking Hardware is not detected.

HAL.PTP.InstlHwFiltTblFull

Description

Creating a PTP clock port installs an entry in hardware filter table. Installing an entry has failed due to hardware filter table is full, so PTP functionality will be unavailable. This failure occurs when the switch has more configuration which uses hardware filter table.

Remedy

Unconfigure other features which uses the hardware filter table and re-try configuration.

Severity

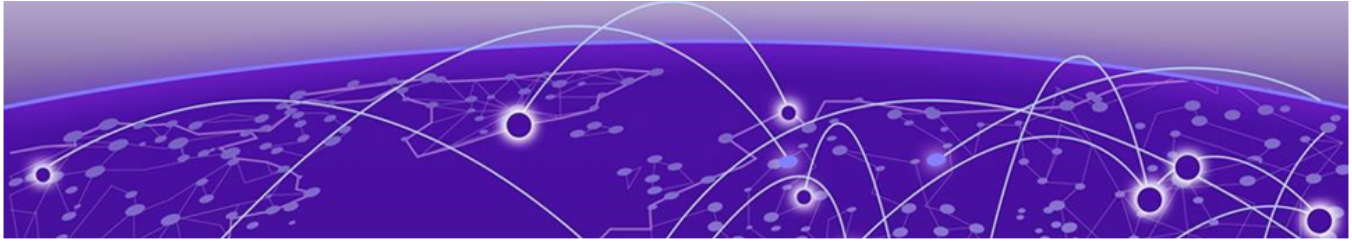
Error

Message Text

Installation of hardware filter on slot `%slot%`, unit `%unit%` failed. Hardware filter table is full.

Message Parameters

Name	Type
slot	uInt
unit	uInt



HAL.QOS Messages

HAL.QOS.EnterFnc on page 2173
HAL.QOS.QosCmdUnsuprt on page 2174
HAL.QOS.SlotInv on page 2174
HAL.QOS.PortInv on page 2175
HAL.QOS.ExitFnc on page 2175
HAL.QOS.CndtEventNull on page 2176
HAL.QOS.CndtInitFail on page 2177
HAL.QOS.ConduitEventAllocFail on page 2177
HAL.QOS.CndtSendFail on page 2178
HAL.QOS.SlotPortInv on page 2178
HAL.QOS.DebugSummary on page 2179

HAL.QOS.EnterFnc

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

.There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.QOS.QosCmdUnsuprt

Description

Management module is attempting to send a command, that is not defined. This is coding defect.

Remedy

Repeat the QoS related configuration. If this error message is observed after reconfiguration, collect show tech output and contact Extreme Technical support.

Severity

Error

Message Text

Unsupport qos command `%action%` value `%value%` qos `%qos%`

Message Parameters

Name	Type
value	uInt32
qos	uInt8
action	uInt16

HAL.QOS.SlotInv

Description

Management module is trying to send a configuration of a slot that does not exist.

Remedy

Repeat the QoS related configuration. If this error message is observed after reconfiguration, collect show tech and contact Extreme Technical support.

Severity

Error

Message Text

Invalid slot `%Slot%`

Message Parameters

Name	Type
Slot	uInt32

HAL.QOS.PortInv

Description

Management Module is trying to send a configuration of a port that does not exist. This is either due to software corruption or coding defect.

Remedy

Reboot the switch. If the problem persists after reboot, collect show tech and contact Extreme Technical support.

Severity

Error

Message Text

Invalid Port `%Port%`

Message Parameters

Name	Type
Port	uInt32

HAL.QOS.ExitFnc

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or

completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

.There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.QOS.CndtEventNull

Description

Invalid event or Null event from conduit module

Remedy

This message is harmless. If many such error messages are seen, collect "show tech" and contact Extreme Technical support.

Severity

Error

Message Text

A null event received from conduit module `%type%`

Message Parameters

Name	Type
type	uInt32
arg	uInt32

HAL.QOS.CndtInitFail

Description

Management module failed to initialize conduits for QoS

Remedy

The switch will be unable to send QoS configuration to the IO slot. Reboot the switch. If the problem persists, contact Extreme Technical support.

Severity

Error

Message Text

Management module failed to create conduits for QoS. Create conduits failed with return code `%returnCode%`

Message Parameters

Name	Type
returnCode	sInt32

HAL.QOS.ConduitEventAllocFail

Description

Management module failed to allocate conduit event.

Remedy

Repeat the configuration after some delay. If the problem persists, report to switch support contact.

Severity

Error

Message Text

Allocation of conduit event of size `%size%` to send configuration `%action%` to I/O failed

Message Parameters

Name	Type
action	sInt16
size	uInt32

HAL.QOS.CndtSendFail

Description

Failed to send conduit message to I/O slots

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Error

Message Text

Failed to send conduit message to I/O `%returnCode%`

Message Parameters

Name	Type
returnCode	sInt32

HAL.QOS.SlotPortInv

Description

Management module is attempting to send a configuration to slot/port that does not exist. This could either be due to coding defect or any corruption

Remedy

Repeat the configuration. If the problem persists, collect show tech and contact Extreme Technical support.

Severity

Error

Message Text

Pif Null for slot `%slot%` port `%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

HAL.QOS.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

.There is no remedy because there is no problem to be resolved.

Severity

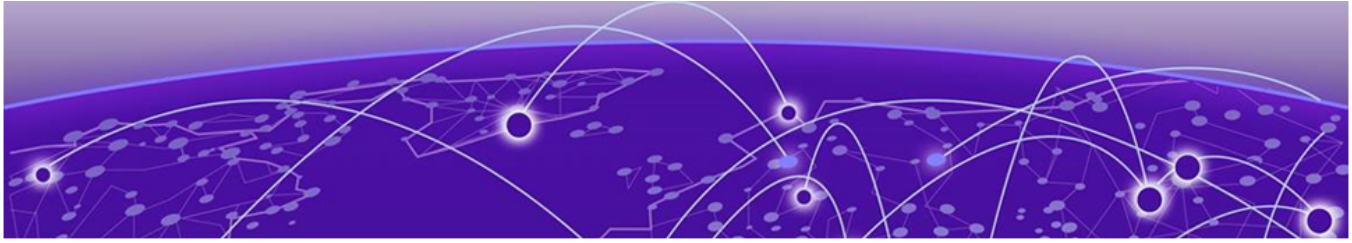
Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf



HAL.RateLimit Messages

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HAL.RateLimit.Error on page 2181
HAL.RateLimit.Warning on page 2182
HAL.RateLimit.Notice on page 2182
HAL.RateLimit.Info on page 2183
HAL.RateLimit.DebugSummary on page 2184
HAL.RateLimit.DebugVerbose on page 2184
HAL.RateLimit.DebugData on page 2185
HAL.RateLimit.InitSlotFail on page 2185
HAL.RateLimit.InitMeterTbl on page 2186
HAL.RateLimit.CreatMeterExist on page 2186
HAL.RateLimit.AllocMeterFail on page 2187
HAL.RateLimit.CfgMeterNotExist on page 2187
HAL.RateLimit.DelMeterNotExist on page 2188
HAL.RateLimit.CfgMeter on page 2189
HAL.RateLimit.DelMeterInuse on page 2189
HAL.RateLimit.ClrMeterNotExist on page 2190
HAL.RateLimit.GetMeter on page 2190
HAL.RateLimit.GetMeterNoACL on page 2191
HAL.RateLimit.CreatMeterLmtExcd on page 2192
HAL.RateLimit.SyncMeterFail on page 2192
HAL.RateLimit.AllocSlotMsgFail on page 2193
HAL.RateLimit.SendCfgMsgSlotFail on page 2193
HAL.RateLimit.HookArgNull on page 2194
HAL.RateLimit.GetStatsFail on page 2194
HAL.RateLimit.CfgSlotFail on page 2195
HAL.RateLimit.AddACLMeterNotExist on page 2195
HAL.RateLimit.AddACLMeterNotCfg on page 2196
HAL.RateLimit.CfgMeterVlanNotExist on page 2197

HAL.RateLimit.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.RateLimit.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.RateLimit.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.RateLimit.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.RateLimit.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.RateLimit.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.RateLimit.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.RateLimit.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.RateLimit.InitSlotFail

Description

The Management module failed to initialize conduits for sending and receiving rate limit related messges to I/O slots. With this error, Ingress ratelimit feature cannot be used.

Remedy

System should be rebooted to use Ingress rate limit feature.

Severity

Error

Message Text

An action to create conduits with IO slots failed with error `%rc%`

Message Parameters

Name	Type
rc	sInt32

HAL.RateLimit.InitMeterTbl

Description

Indicates the total number of rate limit meter entries that are available on this card.

Remedy

No remedy required, as there is no problem to be solved. This is debug information.

Severity

Debug-Summary

Message Text

Meter table at MM initialized flor slot `%slot%` cardType `%cardType%` Entries `%maxEnt%`

Message Parameters

Name	Type
slot	Slot
cardType	uInt
maxEnt	uInt

HAL.RateLimit.CreatMeterExist

Description

Trying to create meter which is already present in HAL. This is an inconsistent state between HAL and acl.

Remedy

Try to delete this meter and create again.

Severity

Error

Message Text

Meter `%name%` already exists

Message Parameters

Name	Type
name	String

HAL.RateLimit.AllocMeterFail

Description

HAL is not able to allocate memory for this meter.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

A resource allocation to store meter `%str%` failed

Message Parameters

Name	Type
str	String

HAL.RateLimit.CfgMeterNotExist

Description

An opertion to configure a meter that does not exist. Meter configuration is not in sync between acl and HAl.

Remedy

Delete the meter and try to create it again.

Severity

Error

Message Text

Failed to configure meter. Meter `%str%` does not exist.

Message Parameters

Name	Type
str	String

HAL.RateLimit.DelMeterNotExist

Description

An operation to delete a meter failed. Meter configuration is not in sync between HAL and acl.

Remedy

Try to recreate the meter with the same name. If this operation fails, please reboot the switch and contact Extreme Technical support.

Severity

Error

Message Text

Failed to delete meter. Meter `%str%` does not exist.

Message Parameters

Name	Type
str	String

HAL.RateLimit.CfgMeter

Description

Meter with this configuration has been configured in HAL.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Meter `%str%` configured. CR `%cr%` CBS `%cb%` CR Valid `%cv%` PR `%pr%` PBS `%pb%` PR Valid `%pv%`

Message Parameters

Name	Type
str	String
cr	uInt
cb	uInt
cv	uInt
pr	uInt
pb	uInt
pv	uInt

HAL.RateLimit.DelMeterInuse

Description

Trying to delete a meter which is in use.

Remedy

Unconfigure the meter association with ACL/VLAN, before trying to delete the meter.

Severity

Error

Message Text

An action to delete meter `%str%` failed. Meter is in use. Reference count `%rc%`

Message Parameters

Name	Type
str	String
rc	uInt

HAL.RateLimit.ClrMeterNotExist

Description

An operation to clear meter failed, as there is no such meter configured in HAL.

Remedy

No remedy is available.

Severity

Error

Message Text

An action to clear meter with index `%ind%` failed.

Message Parameters

Name	Type
ind	uInt

HAL.RateLimit.GetMeter

Description

Get meter statistics.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Get statistics of meter `%str%` Vlan Instance `%vlaninst%` Port Instance `%portinst%`

Message Parameters

Name	Type
str	String
vlaninst	uInt32
portinst	uInt32

HAL.RateLimit.GetMeterNoACL

Description

No ACL is created on this vlan instance and port. Hence the operation to get statistics failed.

Remedy

Check if there is ACL created with this meter as one of the actions. .

Severity

Warning

Message Text

Failed to get meter statistics for meter `%str%` `%vlaninst%` `%portinst%` , as there is no corresponding ACL entry created with these parameters.

Message Parameters

Name	Type
str	String
vlaninst	uInt32
portinst	uInt32

HAL.RateLimit.CreatMeterLmtExcd

Description

Maximum number of meters have been created. Could not configure the ACL with this meter as an action.

Remedy

No remedy is available.

Severity

Warning

Message Text

An operation to create meter in this slot `%slot%` failed. Maximum meters are already created in this slot.

Message Parameters

Name	Type
slot	Slot
maxent	uInt32

HAL.RateLimit.SyncMeterFail

Description

Configuration of meters in this IO slot failed.

Remedy

Disable and re-enable the slot again.

Severity

Warning

Message Text

An operation to sync meter entries in the IO slot `%slot%` failed. Param `%mp%` data `%data%`

Message Parameters

Name	Type
slot	Slot
mp	Ptr
data	Ptr

HAL.RateLimit.AllocSlotMsgFail

Description

Cannot send meter configuration to one or more IO slots as Management module failed to allocate a conduit message.

Remedy

Redo the configuration after sometime.

Severity

Warning

Message Text

An operation to allocate conduit event of length `%len%` failed

Message Parameters

Name	Type
len	uInt

HAL.RateLimit.SendCfgMsgSlotFail

Description

An operation to send meter configuration to IO slot failed.

Remedy

Save the configuration, disable and re-enable the slot again.

Severity

Warning

Message Text

An operation to send meter configuration `%num%` to one or more slots failed with error `%str%`

Message Parameters

Name	Type
num	uInt32
str	String

HAL.RateLimit.HookArgNull

Description

Ratelimit module received a message from IO, with null pointer.

Remedy

No remedy is available.

Severity

Warning

Message Text

Callback registered with conduit invoked with null ptr `%format%`

Message Parameters

Name	Type
format	Printf

HAL.RateLimit.GetStatsFail

Description

An Operation to get statistics corresponding to a meter failed.

Remedy

Try to get statistics after sometime.

Severity

Warning

Message Text

An operation to get statistics `%num%` from slot `%slot%` failed.

Message Parameters

Name	Type
slot	Slot
num	uInt32

HAL.RateLimit.CfgSlotFail

Description

An operation to create/configure a meter in the I/O failed with the error code.

Remedy

Try to disable the slot and enable it again.

Severity

Error

Message Text

An operation to configure in IO slot `%slot%` failed with error code `%rc%`.

Message Parameters

Name	Type
slot	Slot
rc	uInt32

HAL.RateLimit.AddACLMeterNotExist

Description

The meter configured as one of the actions in the ACL has not been created. ACL configuration failed.

Remedy

Create and configure the meter before configuration of the ACL.

Severity

Warning

Message Text

An operation to add meter to acl failed. Meter `%str%` does not exist.

Message Parameters

Name	Type
str	String

HAL.RateLimit.AddACLMeterNotCfg

Description

The meter configured as one of the actions in the ACL has not been Configured. ACL configuration failed.

Remedy

Configure the meter before configuration of the ACL.

Severity

Warning

Message Text

An operation to add meter to acl failed. Meter `%str%` is not configured.

Message Parameters

Name	Type
str	String

HAL.RateLimit.CfgMeterVlanNotExist

Description

An opertion to configure a meter to rate-limit flood-traffic on a vlan failed. VLAN configuration is not in sync between vlan, acl and HAl.

Remedy

Create the vlan, and configure meter to rate-limit flood traffic.

Severity

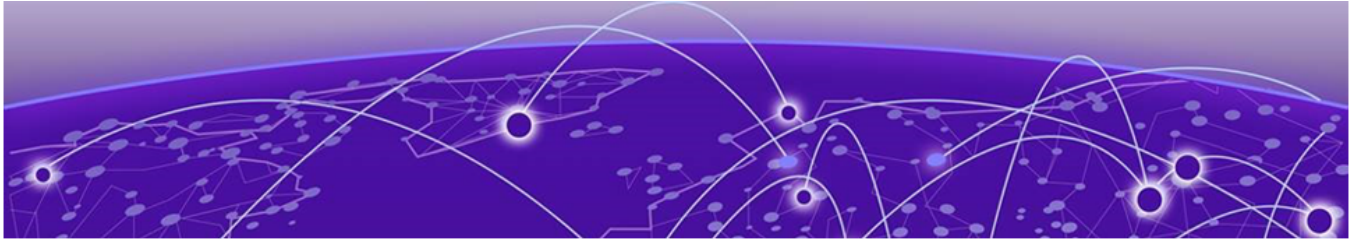
Error

Message Text

Failed to configure rate-limit meter on vlan `%vlan%`. Vlan `%vlan%` does not exist.

Message Parameters

Name	Type
vlan	String



HAL.RateShape Messages

HAL.RateShape.CreateIndxFail on page 2198
HAL.RateShape.AllocIndxTMUnitNumInv on page 2199
HAL.RateShape.AllocIndxFail on page 2199
HAL.RateShape.FreeIndxTMUnitNumInv on page 2200
HAL.RateShape.FreeIndxFail on page 2200
HAL.RateShape.PopIndxTMUnitNumInv on page 2201
HAL.RateShape.PopIndxFail on page 2201

HAL.RateShape.CreateIndxFail

Description

Rate Shape Index create failed. Possibly MM is running out of memory.

Remedy

Reboot the box and see if the problem goes away.

Severity

Critical

Message Text

Rate Shape Index create failed for `%type%`, traffic manager unit number: `%fapNo%`

Message Parameters

Name	Type
type	String
fapNo	uInt

HAL.RateShape.AllocIndxTMUnitNumInv

Description

Rate Shape Index alloc failed because of invalid traffic manager unit number.

Remedy

Please pass in a valid traffic manager unit number. The valid range is 0-31.

Severity

Error

Message Text

Rate Shape Index Alloc failed, invalid traffic manager unit number:`%fapNo%`

Message Parameters

Name	Type
fapNo	uInt

HAL.RateShape.AllocIndxFail

Description

Rate shape Index alloc failed. Check the error code returned.

Remedy

None.

Severity

Error

Message Text

Rate Shape Index Alloc failed for `%type%`, errCode:`%errCode%`

Message Parameters

Name	Type
type	String
errCode	uInt

HAL.RateShape.FreeIndxTMUnitNumInv

Description

Rate Shape Index free failed because of invalid traffic manager unit number.

Remedy

Please pass in a valid traffic manager unit number(0-31).

Severity

Error

Message Text

Rate Shape Index Free failed, invalid traffic manager unit number:`%fapNo%`

Message Parameters

Name	Type
fapNo	uInt

HAL.RateShape.FreeIndxFail

Description

Rate Shape Index free failed. Check the error code returned.

Remedy

None.

Severity

Error

Message Text

Rate Shape Index Free failed for `%type%`, index:`%index%` errCode:`%errCode%`

Message Parameters

Name	Type
type	String
index	uInt
errCode	uInt

HAL.RateShape.PopIndxTMUnitNumInv

Description

Rate Shape Index pop failed because of invalid traffic manager unit number.

Remedy

Please pass in a valid traffic manager unit number(0-31).

Severity

Error

Message Text

Rate Shape Index Pop failed, invalid traffic manager unit number:`%fapNo%`

Message Parameters

Name	Type
fapNo	uInt

HAL.RateShape.PopIndxFail

Description

Rate Shape Index pop failed. Check the error code returned.

Remedy

None.

Severity

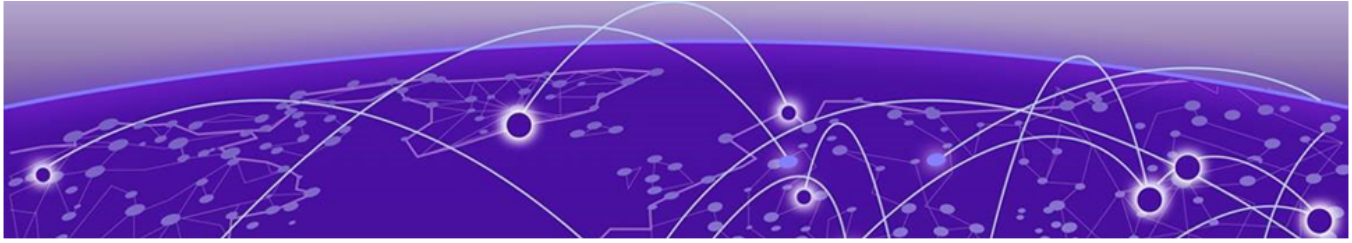
Error

Message Text

Rate Shape Index Pop failed for `%type%`, index:`%index%` errCode:`%errCode%`

Message Parameters

Name	Type
type	String
index	uInt
errCode	uInt



HAL.ReachNXT Messages

HAL.ReachNXT.DebugVerbose on page 2203
HAL.ReachNXT.Add on page 2203
HAL.ReachNXT.Del on page 2204
HAL.ReachNXT.DtectLmt on page 2205

HAL.ReachNXT.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.ReachNXT.Add

Description

This message is logged when a ReachNXT device is added for a port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

ReachNXT device added for port `%port%`, mac `%mac%`

Message Parameters

Name	Type
port	SlotPort
mac	MAC

HAL.ReachNXT.Del

Description

This message is logged when a ReachNXT device is removed for a port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

ReachNXT device removed for port `%port%`, mac `%mac%`

Message Parameters

Name	Type
port	SlotPort
mac	MAC

HAL.ReachNXT.DtectLmt

Description

ReachNXT devices will operate normally, however firmware upgrade is only supported for one ReachNXT device per port.

Remedy

If ReachNXT device(s) require a firmware upgrade, then re-configure for one device per port. Do not connect through a hub.

Severity

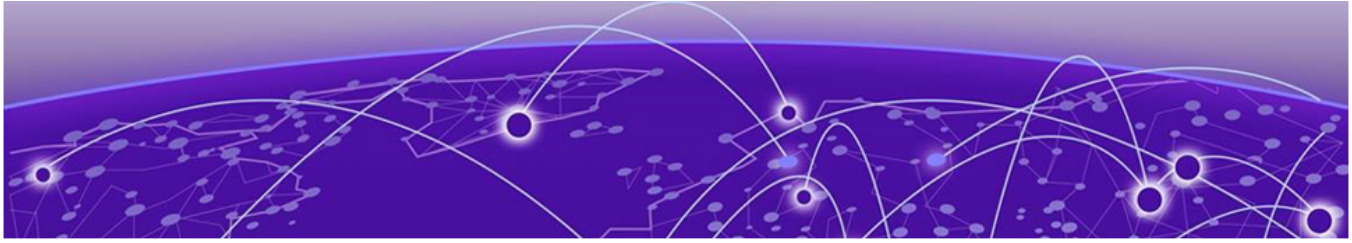
Notice

Message Text

More than one ReachNXT device has been detected on port `%port%`.

Message Parameters

Name	Type
port	SlotPort



HAL.sFlow Messages

HAL.sFlow.FndHndlFail on page 2206
HAL.sFlow.FndParmFail on page 2207
HAL.sFlow.InitMMCndtFail on page 2207
HAL.sFlow.CndtEventNull on page 2208
HAL.sFlow.AllocCndtFail on page 2208
HAL.sFlow.SendCndtMsgFail on page 2209
HAL.sFlow.DebugVerbose on page 2210
HAL.sFlow.DebugData on page 2210
HAL.sFlow.DebugSummary on page 2211

HAL.sFlow.FndHndlFail

Description

Error occured when trying to get information about sFlow status on a port.

Remedy

Try to configure sFlow on the port once more.

Severity

Error

Message Text

Failed to find sflow handle for port `%slot%:%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

HAL.sFlow.FndParmFail

Description

Error occured when trying to get information about sFlow parameters on a slot.

Remedy

Try to configure sFlow on the slot once more.

Severity

Error

Message Text

Failed to find sflow parameters for `%slot%`

Message Parameters

Name	Type
slot	Slot

Applicable Platforms

- I386 virtual machine switch simulator

HAL.sFlow.InitMMCndtFail

Description

Management module failed to initialize conduits for sFlow

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Error

Message Text

Management module failed to initialize conduits for sFlow `%returnCode%`

Message Parameters

Name	Type
returnCode	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.sFlow.CndtEventNull

Description

The response handler for sending conduit message for sFlow returned a null conduit event.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Debug-Data

Message Text

Conduit response handler returned null conduit event.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.sFlow.AllocCndtFail

Description

Management module failed to allocate conduit event.

Remedy

Try to redo the configuration after sometime.

Severity

Error

Message Text

Allocation of conduit event of size `%size%` to send configuration to I/O failed

Message Parameters

Name	Type
size	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.sFlow.SendCndtMsgFail

Description

Failed to send conduit message to I/O slots.

Remedy

Try to redo the configuration after sometime.

Severity

Error

Message Text

Failed to send conduit message `%msgType%` to I/O `%returnCode%`

Message Parameters

Name	Type
msgType	uInt32
returnCode	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.sFlow.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- I386 virtual machine switch simulator

HAL.sFlow.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- I386 virtual machine switch simulator

HAL.sFlow.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

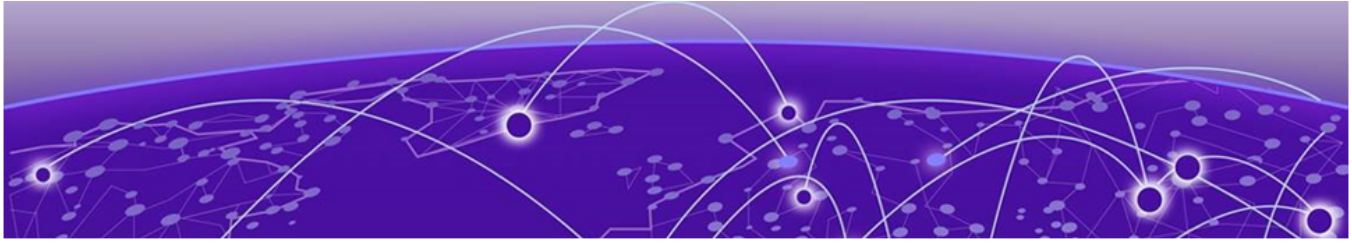
```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- I386 virtual machine switch simulator



HAL.SM Messages

HAL.SM.Critical on page 2212
HAL.SM.Error on page 2213
HAL.SM.Warning on page 2213
HAL.SM.Notice on page 2214
HAL.SM.Info on page 2215
HAL.SM.DebugSummary on page 2215
HAL.SM.DebugVerbose on page 2216
HAL.SM.DebugData on page 2216
HAL.SM.ChanDsbl on page 2217
HAL.SM.ChanRstor on page 2218
HAL.SM.InstlStaticEntFail on page 2219
HAL.SM.InitTrunkFail on page 2219
HAL.SM.InstlFiltFail on page 2220
HAL.SM.CtrlPathReroute on page 2221
HAL.SM.SlowPathReroute on page 2222
HAL.SM.CtrlPathRstor on page 2223
HAL.SM.SlowPathRstor on page 2223

HAL.SM.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.SM.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.SM.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.SM.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.SM.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.SM.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.SM.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.SM.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.SM.ChanDsbl

Description

A persistent high speed switch fabric link failure has caused the disabling of a high speed switch fabric channel. Each fabric module provides four high speed switch fabric channels. With four fabric modules present, there are sixteen of these channels normally available. Twelve of these channels are required for non-blocking operation with four of the sixteen channels being redundant. In other words, with four fabric modules operational, up to four of these channels can be disabled due to switch fabric link failure and non-blocking operation will still be available. If redundant channels are not available, then loss of a channel results in reducing the available high speed switch fabric bandwidth, increasing the probability of lost user data traffic.

Remedy

Please refer to the event HAL.Sys.IntPortDown indicating the high speed switch fabric link that has failed. The I/O blade that is connected to the link should be removed. The orthogonal connector that carries the failed link should be inspected for damage, both on the I/O blade and the fabric module. If damage is found, the slot should be left empty until the I/O blade and fabric module can be replaced. If no damage is found, it is possible that reseating the I/O blade could cure the link failure. Other than removing the I/O blade that cause the channel to be disabled or disabling its containing I/O slot, there is no way to enable the channel. Channels are automatically disabled based on link failure and are automatically enabled only when the I/O blade connected to the failed link is removed or disabled. If the link comes back up on its own, channels are not automatically enabled.

Severity

Notice

Message Text

Switch fabric channel `%channel%` provided by Fabric slot `%fmslot%` has been disabled due to failed connection with `%ioslot%`

Message Parameters

Name	Type
channel	uInt
fmslot	String
ioslot	String

Applicable Platforms

- I386 virtual machine switch simulator
- BlackDiamond X8 series switches

HAL.SM.ChanRstor

Description

The switch fabric channel is restored.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Switch fabric channel `%channel%` provided by Fabric slot `%fmslot%` has been restored.

Message Parameters

Name	Type
channel	uInt
fmslot	String

Applicable Platforms

- I386 virtual machine switch simulator

- BlackDiamond X8 series switches

HAL.SM.InstlStaticEntFail

Description

Addition of a static entry on the Mangement Module control fabric failed.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: output of "show tech"

Severity

Error

Message Text

Creation of static entry for MAC `%macAddress%` with port `%port%` failed on slot `%Slot%`, unit `%gnit%`, trunk `%trunk%` with error code `%errString%`

Message Parameters

Name	Type
Slot	String
gnit	uInt16
port	uInt16
trunk	uInt8
macAddress	MAC
errString	String

Applicable Platforms

- I386 virtual machine switch simulator
- BlackDiamond X8 series switches

HAL.SM.InitTrunkFail

Description

Setting up a trunk between Management modules failed.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: output of "show tech"

Severity

Error

Message Text

Setting up of Trunk ID `%trunkId%` failed on slot `%Slot%`, gunit `%gunit%`, with error code `%errString%`

Message Parameters

Name	Type
Slot	String
gunit	uInt16
trunkId	uInt16
errString	String

Applicable Platforms

- I386 virtual machine switch simulator
- BlackDiamond X8 series switches

HAL.SM.InstlFiltFail

Description

Management control fabric module failed to install a filter to prioritize control plane traffic.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: output of "show tech"

Severity

Error

Message Text

Filter creation failed on `%Slot%`, unit `%gunit%`, Filter ID= `%filterId%` with error code `%errString%`

Message Parameters

Name	Type
Slot	String
gunit	uInt16
filterId	uInt16
errString	String

Applicable Platforms

- I386 virtual machine switch simulator
- BlackDiamond X8 series switches

HAL.SM.CtrlPathReroute

Description

A control fabric link to the specified slot has failed. The redundant control fabric link (available only in dual-MM operation) has been activated.

Remedy

Please refer to the event HAL.Sys.InPortDown indicating the failed link details. The affected I/O blade or fabric module should be removed and its midplane connector inspected for damage. If none is found, the blade can be reseated to see if the link recovers. If the link fails again, the affected MM should be removed and connectors inspected for damage. If none is found, the MM should be reseated. Note that if the MM through which the reroute has taken place is removed or otherwise failed the I/O blade or fabric module will also fail.

Severity

Warning

Message Text

Control fabric traffic to `%ioslot%` has been rerouted through `%mm%` due to a failed link.

Message Parameters

Name	Type
ioslot	String
mm	String

Applicable Platforms

- I386 virtual machine switch simulator
- BlackDiamond X8 series switches

HAL.SM.SlowPathReroute

Description

A slow speed switch fabric link to the specified slot and unit has failed. The redundant slow speed switch fabric link (available only in dual-MM operation) has been activated.

Remedy

Please refer the event HAL.Sys.IntPortDown indicating the failed link information details. The affected I/O blade should be removed and its midplane connector inspected for damage. If none is found, the I/O blade can be reseated to see if the link recovers. If the link fails again, the affected MM should be removed and its connectors inspected for damage. If none is found, the MM should be reseated. Note that is the MM through which the reroute has taken place is removed or otherwise failed, the I/O blade will also fail.

Severity

Warning

Message Text

Slow path traffic to `%ioslot%` Unit-`%unit%` has been rerouted through `%mm%` due to a failed link.

Message Parameters

Name	Type
ioslot	String
unit	uInt32
mm	String

Applicable Platforms

- I386 virtual machine switch simulator
- BlackDiamond X8 series switches

HAL.SM.CtrlPathRstor

Description

Control fabric traffic to the specified slot has been restored.

Remedy

No action required - Notification message only.

Severity

Warning

Message Text

Control fabric traffic to `%slot%` has been restored through `%mm%`.

Message Parameters

Name	Type
slot	String
mm	String

Applicable Platforms

- I386 virtual machine switch simulator
- BlackDiamond X8 series switches

HAL.SM.SlowPathRstor

Description

Slow path traffic to the specified slot has been restored.

Remedy

No action required - Notification message only.

Severity

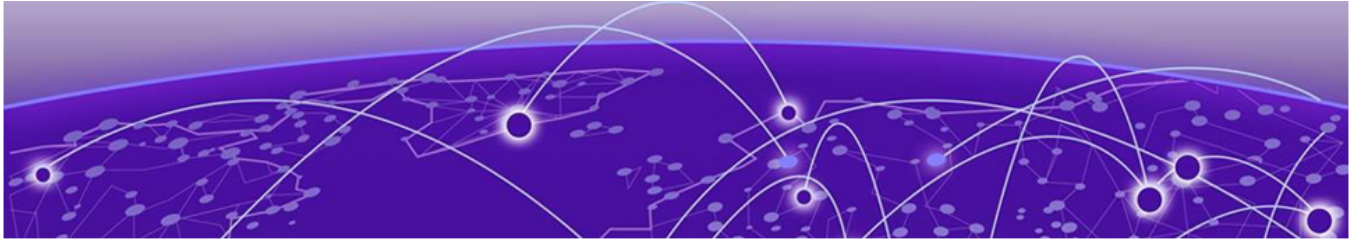
Warning

Message Text

Slow path traffic to `%slot%` has been restored through `%mm%`.

Message Parameters

Name	Type
slot	String
unit	uInt32
mm	String



HAL.Stacking Messages

HAL.Stacking.Critical on page 2225
HAL.Stacking.Error on page 2226
HAL.Stacking.Warning on page 2226
HAL.Stacking.Notice on page 2227
HAL.Stacking.Info on page 2227
HAL.Stacking.DebugSummary on page 2228
HAL.Stacking.DebugVerbose on page 2229
HAL.Stacking.DebugData on page 2229
HAL.Stacking.CfgStkMACAddrInv on page 2230
HAL.Stacking.QoSMisMatchDtect on page 2230
HAL.Stacking.BkupNodeMisCfg on page 2231
HAL.Stacking.StbyNodeMisCfg on page 2232
HAL.Stacking.VerMisMatchDtect on page 2232

HAL.Stacking.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Stacking.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Stacking.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Stacking.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Stacking.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed

information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Stacking.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Stacking.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Stacking.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Stacking.CfgStkMACAddrInv

Description

The stack MAC address is either not configured, or if it is configured then it is different from the stack MAC that is in use by the master node in the stack.

Remedy

Configure the stack MAC (using the "configure stacking mac-address" command) to be the same on all nodes in the stack, and either reboot the entire stack or reboot the node(s) on which this message appears.

Severity

Error

Message Text

The stack MAC address is not correctly configured on this node. The stack can not operate properly in this condition. Please correct and reboot.

Message Parameters

Name	Type
addr	MAC

HAL.Stacking.QoSMisMatchDtect

Description

A Qos mismatch has been detected in the stack. This occurs because versions of EXOS that are earlier than 12.2 reserved QoS profiles QP6 and QP7 for stack control traffic. From EXOS 12.2 onward, only QP7 is reserved. This means that when these versions are intermixed in the stack, the lower numbered version could send a stack control packet using QP6. When the higher numbered version node receives such a packet, it will process it at a lower priority than QP8. Thus QP8 traffic overload (such as could be caused by a network loop) could cause significant loss of stack protocol traffic and therefore destabilize the stack.

Remedy

Quiesce user data traffic on the stack and either replace the nodes whose version is lower than EXOS 12.2 or upgrade them.

Severity

Error

Message Text

At least one node in this stack is operating with an EXOS version that is earlier than 12.2. This may cause the stack to destabilize. Please upgrade and reboot all such nodes in this stack.

HAL.Stacking.BkupNodeMisCfg

Description

The following recommendations should be followed if a more powerful and capable SummitX stackable switch is part of the SummitStack configuration: 1) One of the most powerful switches must be the Master node of a SummitStack. 2) One of the most powerful switches must be the Backup node of a SummitStack. 3) To use the failover feature offered by SummitStack architecture, the user must have at least 2 more and equally powerful switches configured in the stack as Master and Backup nodes.

Remedy

Configure the stacking parameters to allow the most powerful and capable nodes in the stack to become the Master and Backup nodes. This may be done by changing the master-capability, the priorty, or both of those stacking parameters for one or more stack nodes. If there is not a node already in the stack that is as powerful and capable as the Master node, then an equivalent switch should be added to the stack and configured master-capable so as to become the Backup stack node.

Severity

Warning

Message Text

The Backup stack node is not as powerful or as capable as the Master stack node. This configuration is not recommended for successful use of the failover feature.

HAL.Stacking.StbyNodeMisCfg

Description

The following recommendations should be followed if a more powerful and capable SummitX stackable switch is part of the SummitStack configuration: 1) One of the most powerful switches must be the Master node of a SummitStack. 2) One of the most powerful switches must be the Backup node of a SummitStack. 3) To use the failover feature offered by SummitStack architecture, the user must have at least 2 more powerful switches configured in the stack as Master and Backup nodes.

Remedy

Configure the stacking parameters to allow the most powerful and capable nodes in the stack to become the Master and Backup nodes. This may be done by changing the master-capability, the priorty, or both of those stacking parameters for one or more stack nodes.

Severity

Notice

Message Text

There are Standby stack nodes which are more powerful and more capable than the Master and/or Backup stack nodes. This configuration is not recommended for optimal stack performance.

HAL.Stacking.VerMisMatchDtect

Description

A stacking protocol version mismatch has been detected between the local and remote nodes. It means that the stacking protocol running on the remote node is not compatible with the stacking protocol running on the local note. Thus the stack topology could not be formed between these nodes and therefore software upgrade is not possible between these nodes.

Remedy

Upgrade the incompatible node with the version of EXOS that is running on the node that reported this message.

Severity

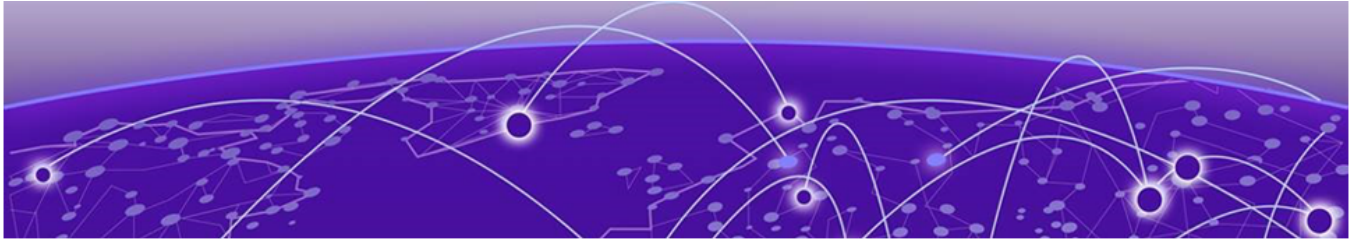
Warning

Message Text

Stacking protocol version mismatch detected on the node connected to node `%mac%` stack port `%port%`. Software upgrade is not possible between these nodes.

Message Parameters

Name	Type
mac	MAC
port	uInt



HAL.SyncE Messages

HAL.SyncE.DebugSummary on page 2234
HAL.SyncE.DebugVerbose on page 2235
HAL.SyncE.DebugData on page 2235

HAL.SyncE.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.SyncE.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.SyncE.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

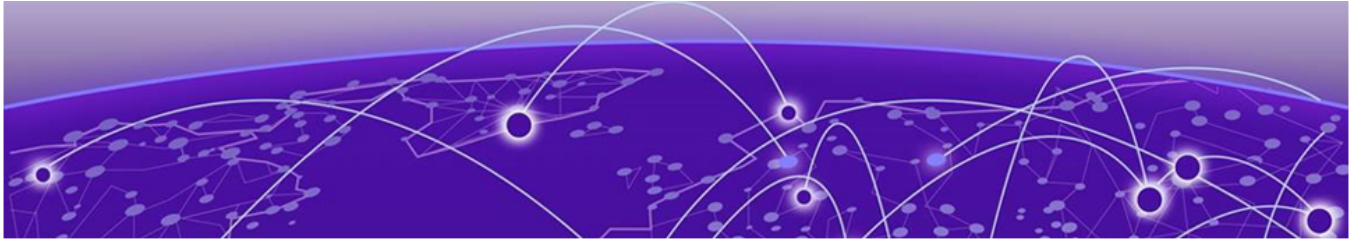
Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



HAL.Sys Messages

HAL.Sys.Error on page 2238
HAL.Sys.Warning on page 2238
HAL.Sys.Notice on page 2239
HAL.Sys.Info on page 2240
HAL.Sys.DebugSummary on page 2240
HAL.Sys.DebugVerbose on page 2241
HAL.Sys.DebugData on page 2241
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HAL.Sys.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Sys.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Sys.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Sys.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Sys.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Sys.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Sys.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.Sys.MasterPFCFailed

Description

Polling of the master power and fan controller has figured out there is a problem with the master controller

Remedy

Try rebooting the chassis or have a second MM to fail over to.

Severity

Error

Message Text

Master Power and Fan Controller (#`%pfcNumber%`) has failed

Message Parameters

Name	Type
pfcNumber	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.NoBackupPFC

Description

There is no backup PFC for the master PFC to failover to

Remedy

Try power cycling to switch to see if master PFC comes back alive or put in a second MM

Severity

Error

Message Text

Backup Power Fan Controller do not exist for master to failover to

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.NoPFCOperational

Description

The switch can not operate without a working PFC and none is operational in the switch now. The MM will be put in failed state to prevent damages to the hardware

Remedy

Try power cycling the chassis to see if any PFCs come back alive

Severity

Error

Message Text

There is no Power Fan Controller operation. The MM will be put in failed state.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.SetBackupPFCToMaster

Description

The backup PFC is being set to become the master PFC

Remedy

Check the health of the master PFC and boot the switch again

Severity

Error

Message Text

An error happened and is now setting the backup Power Fan Controller #`%pfcNumber%` to be the master Power Fan Controller

Message Parameters

Name	Type
pfcNumber	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.SetMasterPFCFailed

Description

Trying to set the PFC to be master but got an error

Remedy

Try the operation again

Severity

Error

Message Text

Setting Power Fan Controller #`%pfcNumber%` to be master failed

Message Parameters

Name	Type
pfcNumber	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.BackupPFCFailed

Description

Polling of the backup power and fan controller has discovered that there is a problem with it

Remedy

Try rebooting the chassis or have a second MM to fail over to.

Severity

Error

Message Text

Backup Power Fan Controller (#`%pfcNumber%`) has failed

Message Parameters

Name	Type
pfcNumber	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.GetPFCMastershipFailed

Description

Failed to get the mastership status of the PFC

Remedy

Try rebooting the chassis

Severity

Error

Message Text

Failed to get Power Fan Controller Mastership for slot #`%slotNo%`

Message Parameters

Name	Type
slotNo	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.PFCMastershipInitFailed

Description

Initialization of the PFCs have failed

Remedy

Try rebooting the chassis

Severity

Error

Message Text

Power Fan Controller initialization failed

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.OtherPFCFailed

Description

PFC is not responding, it could be down

Remedy

Try rebooting the chassis

Severity

Error

Message Text

Power Fan Controller in slot `%slotNo%` has failed to communicate with the system

Message Parameters

Name	Type
slotNo	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.PFCVersionTooOld

Description

For power and fan management to work properly, please update your power fan microcontroller otherwise there could be hardware damage to the system

Remedy

Update the microcontroller

Severity

Error

Message Text

This power fan controller has version `%majVersion%.%minVersion%`, which doesn't meet the mininum requirement of version `%minMajVersion%.%minMinVersion%`. Please update!!!

Message Parameters

Name	Type
majVersion	uInt
minVersion	uInt
minMajVersion	uInt
minMinVersion	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.CardInVoltNorm

Description

The card microcontroller has detected that the input voltage to the card has returned to normal operating range. The card will be enabled again

Remedy

No remedy is available.

Severity

Notice

Message Text

Input voltage for `%slot%` in channel `%channel%` has returned to normal range

Message Parameters

Name	Type
slot	String
channel	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.CardInVoltHigh

Description

The card microcontroller has detected that the input voltage to the card is too high. To prevent damages to the card, it has been shut down.

Remedy

Power cycle the chassis or wait around 30 minutes to see whether it will come back to normal operating range or not

Severity

Critical

Message Text

Input voltage for `%slot%` in channel `%channel%` is higher than normal operating range. The card will be shut down

Message Parameters

Name	Type
slot	String
channel	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.CardInVoltLow

Description

The card microcontroller has detected that the input voltage to the card is too low. To prevent damages to the card, it has been shut down.

Remedy

Power cycle the chassis or wait around 30 minutes to see whether it will come back to normal operating range or not

Severity

Critical

Message Text

Input voltage for `%slot%` in channel `%channel%` is lower than normal operating range. The card will be shut down

Message Parameters

Name	Type
slot	String
channel	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.ReadFanTrayTempFail

Description

Temperature reading of the fan tray has failed. The latest temperature of the fan tray is not known.

Remedy

Make sure that the fan tray firmware version is up-to-date. Power cycling the fan tray might also help

Severity

Warning

Message Text

Reading temperature of fan tray `%fanTray%` has failed

Message Parameters

Name	Type
fanTray	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.ParsePwrFanCtrlMsgFail

Description

A notification message was received from the Power Fan Controller, but it was malformed.

Remedy

Redo the operation again.

Severity

Error

Message Text

Unable to parse `%command%` notification message sent from Power Fan Controller

Message Parameters

Name	Type
command	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.uCtrlMsgBufSizExcd

Description

The message received from the microcontroller is longer than the allocated buffer. The message will not be parsed.

Remedy

If this was a hardware operation, please redo it again. If problem still persists, try power cycling the chassis.

Severity

Error

Message Text

A message received from the micro-controller is too long for the allocated buffer size

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.InitFanTrayFail

Description

During bootup, communication with the fantray has timed out resulting in fantray initialization failure. Hotswapping the fan tray will re-initialize the fan tray.

Remedy

Hotswap the fan tray. If it still doesn't work, power cycle the chassis.

Severity

Error

Message Text

Initialization of fan tray #`%fanTray%` has failed. Please re-initialize by hotswapping the fan tray

Message Parameters

Name	Type
fanTray	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.FanTrayFail

Description

Notified by the fan tray microcontroller indicates that the fan tray has failed. Reading fan tray temperature and odometer will be suspended.

Remedy

Try hotswapping the fan tray to see if the problem persists. If it still doesn't work, power cycle the chassis.

Severity

Error

Message Text

Fan tray `%fanTray%` has failed

Message Parameters

Name	Type
fanTray	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.UpgrdFanTrayStrt

Description

During the firmware upgrade of the fan tray, it will not respond to any communication. To prevent putting it in failed state, communications have beem suspend to it.

Remedy

No remedy is available.

Severity

Info

Message Text

Fan tray `%fanTray%` is being upgraded. All communication with it are temporary suspended.

Message Parameters

Name	Type
fanTray	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.UpgrdFanTrayDone

Description

Firmware upgrade is completed. Communication with the fan tray are resumed.

Remedy

No remedy is available.

Severity

Info

Message Text

Fan tray `%fanTray%` upgrade is completed. All communication with it is resumed.

Message Parameters

Name	Type
fanTray	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.ShutDwnTempRangeExcd

Description

The temperature detected by the power and fan microcontroller is critically out of range. To prevent any hardware damanges, the system will be powered off in 1 second.

Remedy

Replace the fans if they have failed or improve air circulation around the system. When temperature has returned to normal range, power cycle the power supplies and the system shall power on again.

Severity

Critical

Message Text

Temperature is critically out of range. System is being shutdown by the Power and Fan microcontroller.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.ReadPFCTempFail

Description

An error has occured while trying to read temperature values from the power fan controller.

Remedy

Wait to see whether the sensor will come back alive or not. You can also power cycle the PFC by hotswapping the MM.

Severity

Warning

Message Text

Reading temperature from the Power Fan Controller #`%pfc%` has failed.

Message Parameters

Name	Type
pfc	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.TempCritical

Description

The Power Fan Controller located on the MSM has reported that the chassis temperature is reaching the limits of the operating range. If the temperature does not return to normal, the PFC could shut down the chassis.

Remedy

Replace the fans if they have failed or improve air circulation around the system.

Severity

Critical

Message Text

Chassis air intake temperature (50C) is out of operating range. System shutting down.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.IntPortDown

Description

This message is generated when an internal port that is connected to a switch fabric link is down. The message is not generated unless the port down condition is persistent, and the blades at either end of the link remain Operational. There is no corresponding message that shows that the port has come back up. The message is repeated once every hour if the condition persists. The message shows the internal port that has gone down and also shows the internal port at the other end of the link. If that port also goes down, a separate message may be generated for it. To see the current port state, use the "debug hal show sys-health-check" command and look for the display marked "[Fabric Port Events]". The first slot-unit-port in the message is

identified in the Flapped column of the command output. The connected slot-unit-port in the message is identified in the Remote column. The Transitions column shows the number of times the port state changed since the blades at both ends of the related switch fabric link went Operational. A large number of transitions could indicate a port state flapping condition.

Remedy

This message could mean that a blade at one end of the link is not making proper contact with the backplane. Reseating either or both blades could cure the problem. It may also mean that backplane connectors are damaged, e.g., bent pins. In this case, reseating the blade could cause further damage. Visual inspection is recommended before either blade is reinserted. If the slot at both ends of the link is the same, the link is entirely contained on the blade, and this message could indicate that the hardware has failed.

Severity

Warning

Message Text

Sys-Health-Check: Switch fabric port state is Down for Module in `%thisSlot%` (unit `%thisUnit%`, internal port `%thisPort%`) connected to Module in `%toSlot%` (unit `%toUnit%`, internal port `%toPort%`)

Message Parameters

Name	Type
thisSlot	String
thisUnit	uInt
thisPort	uInt
toSlot	String
toUnit	uInt
toPort	uInt

HAL.Sys.FanTrayCommTimeout

Description

Commands are relayed to the fan tray via the Power Fan Controller(PFC). The PFC is getting timeouts when it attempted to relay these commands to the fan tray. The fan tray microcontroller could be hung or defective.

Remedy

Hotswap the fan tray or power cycle the switch.

Severity

Warning

Message Text

The Power Fan Controller has received `%times%` consecutive timeouts from fan tray #`%fanTray%` when attempting to relay commands to it. The fan tray will be put into failed state if it's not in that state already.

Message Parameters

Name	Type
times	uInt
fanTray	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.FanTrayCommTimeoutNotif

Description

Communication attempts between the Power Fan Controller(PFC) and the fan tray have failed a number of times so the PFC has notified the system. The fan tray will be put into failed state.

Remedy

Hotswap the fan tray or power cycle the switch.

Severity

Warning

Message Text

Notification was received from the Power Fan Controller that it is unable to communicate with fan tray #`%fanTray%`. The fan tray will be put into failed state if it's not in that state already.

Message Parameters

Name	Type
fanTray	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.FanTrayCommRestoreNotif

Description

Communication between the Power Fan Controller(PFC) and the fan tray has been restored so the PFC has notified the system.

Remedy

Not applicable.

Severity

Notice

Message Text

Notification received from the Power Fan Controller that communication between it and fan tray #`%fanTray%` has been restored.

Message Parameters

Name	Type
fanTray	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.TempWarning

Description

The Power Fan Controller located on the MSM has reported a warning that the chassis temperature is reaching the limits of the operating range. If the temperature does not return to normal, the PFC could shut down the chassis.

Remedy

Replace the fans if they have failed or improve air circulation around the system.

Severity

Warning

Message Text

`%sensor%` Chassis air intake temperature `%temp%`. System shutdown may occur if corrective action is not taken. System shutdown will happen at 50C.

Message Parameters

Name	Type
temp	String
sensor	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.Sys.HCExtTbl

Description

This message is generated when one of the external table TCAM error counters monitored by the system increments. This should not necessarily be interpreted as a severe error.

Remedy

From a new telnet session please do the following: 1. Run the following commands to check for an occurrence of the error message with component condition HAL.Card.ExtTblClbrtDataInv: "show log match HAL.Card.ExtTblClbrtDataInv" and "show log counters HAL.Card.ExtTblClbrtDataInv". 2. Run the command "debug hal show sys-health-check" and collect the output. Send the results to your service personnel for further analysis to determine whether this is a software or a hardware error.

Severity

Warning

Message Text

Sys-Health-Check: External Table error counters have incremented on `%thisSlot%`.

Message Parameters

Name	Type
thisSlot	String

HAL.Sys.HCPrcssrECC

Description

This message is generated when one of the Error Correcting Code (ECC) counters monitored by the system increments. This counter shows the numbers of times errors have been corrected. Switch operation is not affected.

Remedy

Since this is just an informational meessage and does not affect switch operation, there are no remedial measures.

Severity

Warning

Message Text

Sys-Health-Check: CPU/L2 Memory ECC Counters have incremented on `%thisSlot%`. These errors were corrected and did not affect switch operation

Message Parameters

Name	Type
thisSlot	String

HAL.Sys.PktMemOvrCmmt

Description

This warning is displayed when the per-port maxbuffer setting is changed resulting in the total amount of packet memory that is reserved for all ports in a particular port range exceeding the total available packet memory for the port range by at least 20 percent. Overcommitting the packet memory by less than 20 percent is usually safe to do since many ports would simultaneously have to demand usage of their reservations

in order for memory exhaustion to occur. As the number exceeds 20 percent, the exhaustion of the memory by fewer busy ports becomes more likely. The command that adjusts the per-port maxbuffer setting is "configure {qosprofile} <qosprofile> maxbuffer <0-10000> ports [<port-list> | all]".

Remedy

To view the allocation, the following debug command can be used: "debug hal show platform packet-buffer ports [<port-list>] | all]". Specify the port range shown in the log message. The maxbuffer parameter can then be adjusted as needed to reduce the overcommitment. Keep in mind that an overcommitted packet memory means that there is no shared packet memory available. When the memory is not overcommitted, the remaining packet buffer memory is shared among all ports. The amount each port may allocate from the shared memory can be configured as a percentage of the total available shared memory using the command "configure ports <port-list> shared-packet-buffer <percent>". The maxbuffer configuration can be reset to its default using the "unconfigure qosprofile ports <port-list>" command.

Severity

Warning

Message Text

Packet memory is overcommitted by `%percentage%`%% for`%spread%`ports in range `%port_range%`

Message Parameters

Name	Type
port_range	String
percentage	sInt
spread	String

HAL.Sys.PktMemTxSizBlk

Description

The configured reserved packet memory for a port and QoS profile added to the amount of shared packet memory available to the port is insufficient to contain a packet whose size exceeds the stated size. This means that all received packets of the stated size or greater to be transmitted to such a port and QoS profile will be dropped. This may not be a problem if the customer's network does not use packets of such sizes. This message will appear when an I/O card enters Operational state if a saved packet memory configuration resulted in the condition, or each time thereafter that any change is made to the packet memory configuration and the condition still exists.

Remedy

If packets of the stated size or greater are used in the customer's network, the customer must change the packet memory configuration so that all ports and QoS profiles in the stated port range have sufficient packet memory space to hold the packets. This can be done by changing the maxbuffer settings using the command "configure {qosprofile} <qosprofile> maxbuffer <percent> ports <port-range>" and/or increasing the shared packet memory percentage using the command "configure ports <port-range> shared-packet-buffer <percent>". The packet memory condition may be viewed using the debug command "debug hal show platform packet-buffer ports <port-range>".

Severity

Warning

Message Text

At least one port and QoS profile for`%spread%`ports in range `%port_range%` cannot transmit packets larger than `%pkt_size%` bytes because of packet memory configuration.

Message Parameters

Name	Type
port_range	String
spread	String
pkt_size	uInt

HAL.Sys.AltStkOptCardSlotEmpty

Description

This message occurs because one or both stacking ports are configured to use the alternate port on this switch (instead of the native stacking port) but the hardware to provide the port is not present. The message occurs on X450a or X450e series switches when the option card that provides the port(s) is not present.

Remedy

Use the "show stacking-support" command to view the configured stacking port selection. There are two methods to prevent this message from being displayed in the future: (1) Power down the unit. Insert an appropriate option card such as an XGM2-2xf card into the option slot. Power on the unit and use the option card. (2) Use the "configure stacking-support stack-ports <stack-ports> selection native"

command to use the native stacking port(s) on the switch. Then reboot the switch for the configuration to take effect.

Severity

Warning

Message Text

Alternate stacking port is selected on `%switchStr%` `%slotNumStr%` but the option card slot is empty.

Message Parameters

Name	Type
switchStr	String
slotNumStr	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.Sys.RebootOverHeat

Description

Currently this message only applies to x430-8p where there's no HW or SW overheat protection. One of the reason that could cause overheat is when switch is in rack mount configuration and POE power is set to 90W. When temperature is above operating range, this event occurs, the switch reboots, stopping at a prompt before starting the operating system. If the user evaluates the situation and determines that switch is no longer in overheat state, he/she needs to manually type "Y/y" to continue boot up process.

Remedy

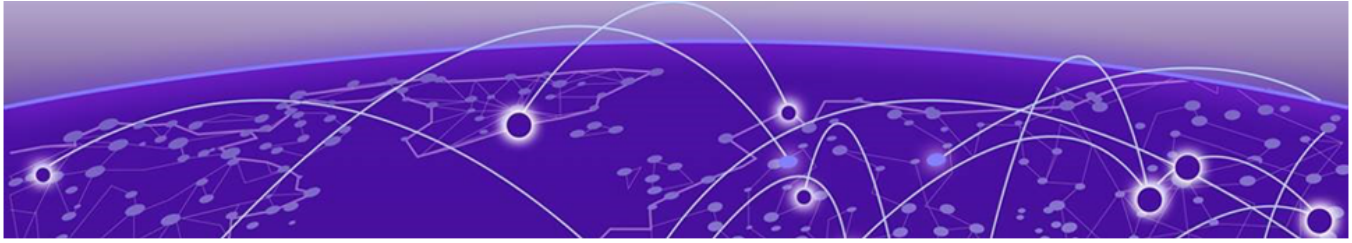
User needs to check the environment temperature and switch configuration (POE configuration, switch mounting position) to see if problems that caused switch overheat are now fixed. Once user determines switch is no longer in overheat state and ready to reboot, he/she can type "Y/y" to continue boot up process.

Severity

Critical

Message Text

Rebooting the switch because it has overheated.



HAL.SysHC Messages

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HAL.SysHC.InitDone

Description

Indicates that System Health Check on the Management Module has been successfully initialized.

Remedy

Not Applicable

Severity

Notice

Message Text

System Health Check on this Management Module successfully initialized.

HAL.SysHC.CompFail

Description

Components are typically considered to have failed when certain errors in them exceed set thresholds or the component does not respond to health check's requests and the card has therefore to be rebooted. Since the card is being rebooted, this message will

be accompanied by Device Manager's card reboot messages. However, currently this message is not used as it is replaced by the CompFailDetail message.

Remedy

There is no remedial action that the customer can take. The switch itself is rebooting the card or shutting it down.

Severity

Error

Message Text

SysHealthCheck failure on slot `%slot%` component `%deviceName%`. Component exceeded error thresholds repeatedly or does not respond to health check requests. The card is being rebooted or shut down.

Message Parameters

Name	Type
deviceName	String
slot	uInt32

HAL.SysHC.CompFailDetail

Description

Components are typically considered to have failed when certain errors in them exceed set thresholds or the component does not respond to health check's requests and the card has therefore to be rebooted. Since the card is being rebooted, this message will be accompanied by Device Manager's card reboot messages.

Remedy

There is no remedial action that the customer can take. The switch itself is rebooting the card or shutting it down.

Severity

Error

Message Text

SysHealthCheck failure on slot `%slot%` component `%deviceName%` error `%errorId%`. Component exceeded error thresholds repeatedly or does not respond to health check requests. The card is being rebooted or shut down.

Message Parameters

Name	Type
deviceName	String
slot	uInt32
errorId	String

HAL.SysHC.DebugSummary

Description

This is a debug message.

Remedy

This is a debug message. Remedy not applicable.

Severity

Debug-Summary

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

HAL.SysHC.ErrCntExcdNormRange

Description

An error counter is outside of its normal operating range.

Remedy

If health check considers that the error is occuring frequently enough for the component to be considered to have failed, then it will reboot the card with the CompFailDetail message above. If not, then the ErrCntExcdNormRange message is a Warning but nothing specifically needs to be done about it.

Severity

Warning

Message Text

Error counter `%errorId%` in `%deviceName%` on slot `%slot%` exceeds its normal operating range. Counter value of `%count%` errors in `%pollInterval%` seconds exceeds threshold of `%threshold%` error(s).

Message Parameters

Name	Type
deviceName	String
slot	uInt32
errorId	String
count	uInt32
pollInterval	uInt32
threshold	uInt32

HAL.SysHC.RAMUsage

Description

This is a Informational message showing the RAM usage on this Management Module.

Remedy

Not applicable

Severity

Info

Message Text

RAM Usage (KB): Total `%total%` Used `%used%` Free `%free%`

Message Parameters

Name	Type
total	uInt32
used	uInt32
free	uInt32

HAL.SysHC.ClockFreqNormRangeExcd

Description

The clock frequency on the indicated component is out of range.

Remedy

The card needs to be RMA'ed if the clock frequency goes out of range more than twice.

Severity

Critical

Message Text

Clock frequency of `%deviceName%` on `%slot%` out of range. Rebooting the card.

Message Parameters

Name	Type
deviceName	String
slot	String

HAL.SysHC.PktPrcssrExcpt

Description

An exception has occurred in the packet processor. This can happen due to software or hardware errors.

Remedy

No remedial action can be taken at the customer level as the packet processor can generate a wide variety of exceptions and they need developer analysis.

Severity

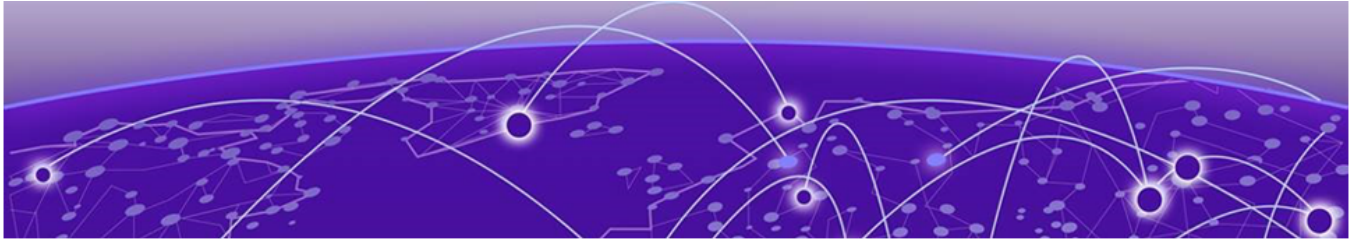
Warning

Message Text

`%exceptionSubunit%` exception in packet processor `%xid%` on slot `%slot%` on `%when%`

Message Parameters

Name	Type
exceptionSubunit	String
xid	uInt32
slot	uInt32
when	String



HAL.Transceiver Messages

HAL.Transceiver.DebugSummary on page 2272
HAL.Transceiver.DebugVerbose on page 2273
HAL.Transceiver.DebugData on page 2273

HAL.Transceiver.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Transceiver.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.Transceiver.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

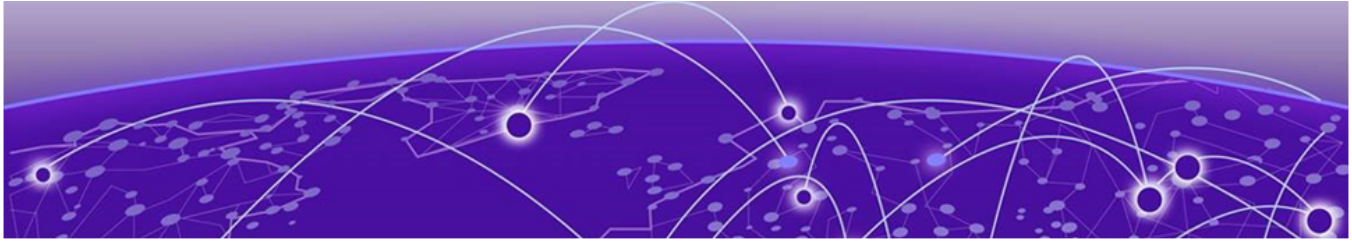
Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



HAL.Tunl Messages

HAL.Tunl.Error on page 2275
HAL.Tunl.Warning on page 2276
HAL.Tunl.Notice on page 2276
HAL.Tunl.Info on page 2277
HAL.Tunl.DebugSummary on page 2278
HAL.Tunl.DebugVerbose on page 2278
HAL.Tunl.DebugData on page 2279

HAL.Tunl.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

If the error message indicates no memory on the system, remove some configuration on the system may solve the problem. If the error message indicates invalid types or parameters, this is usually a software error, which should not happen in normal operation. Contact technical support with "show tech" output. For other error messages, they are usally generated due to failure of operations in other components. Please look for previous error or warning messages for resolution.

Severity

Error

Message Text

VR Id `%vrId%:%msg%`

Message Parameters

Name	Type
vrId	uInt32
msg	Printf

HAL.Tunl.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

If the warning indicates the maximum number of tunnels supported by haredware is reached, remove configured tunnels will resolve resolve the issue. Other error messages are usally generated due to failure of operations in other components. Please look for previous error or warning messages for resolution.

Severity

Warning

Message Text

VR Id `%vrId%:%msg%`

Message Parameters

Name	Type
vrId	uInt32
msg	Printf

HAL.Tunl.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

VR Id `%vrId%` : `%msg%`

Message Parameters

Name	Type
vrId	uInt32
msg	Printf

HAL.Tunl.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

VR Id `%vrId%` : `%msg%`

Message Parameters

Name	Type
vrId	uInt32
msg	Printf

HAL.Tunl.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

VR Id `%vrId%:%msg%`

Message Parameters

Name	Type
vrId	uInt32
msg	Printf

HAL.Tunl.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

VR Id `%vrId%:%msg%`

Message Parameters

Name	Type
vrId	uInt32
msg	Printf

HAL.Tunl.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

No action required - Informational message only.

Severity

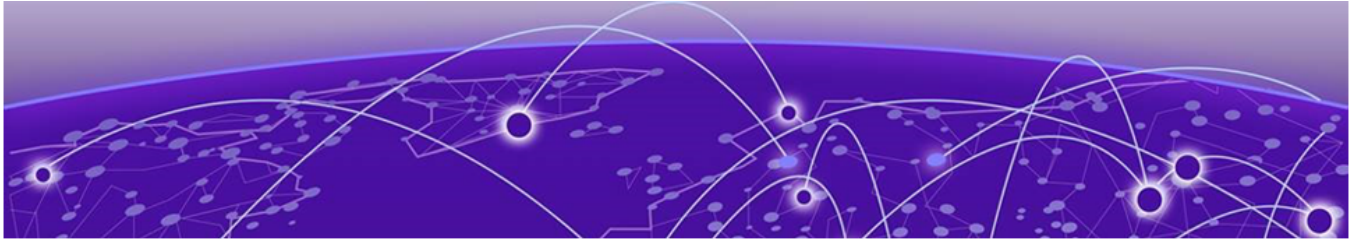
Debug-Data

Message Text

VR Id `%vrId%` : `%msg%`

Message Parameters

Name	Type
vrId	uInt32
msg	Printf



HAL.TunlAdj Messages

HAL.TunlAdj.Error on page 2280
HAL.TunlAdj.Warning on page 2281
HAL.TunlAdj.Notice on page 2281
HAL.TunlAdj.Info on page 2282
HAL.TunlAdj.DebugSummary on page 2283
HAL.TunlAdj.DebugVerbose on page 2283
HAL.TunlAdj.DebugData on page 2284

HAL.TunlAdj.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

If the error message indicates no memory on the system, remove some configuration on the system may solve the problem. Other error messages usually indicate software error, which should not happen in normal operation. Contact technical support with "show tech" output.

Severity

Error

Message Text

VR Id `%vrId%` : `%msg%`

Message Parameters

Name	Type
vrId	VRID
msg	Printf

HAL.TunlAdj.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

The warning message is generated due to failure of operations in other components. Please look for previous error or warning messages for resolution.

Severity

Warning

Message Text

VR Id `%vrId%:%msg%`

Message Parameters

Name	Type
vrId	VRID
msg	Printf

HAL.TunlAdj.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

VR Id `%vrId%` : `%msg%`

Message Parameters

Name	Type
vrId	VRID
msg	Printf

HAL.TunlAdj.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

VR Id `%vrId%` : `%msg%`

Message Parameters

Name	Type
vrId	VRID
msg	Printf

HAL.TunlAdj.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

VR Id `%vrId%:%msg%`

Message Parameters

Name	Type
vrId	VRID
msg	Printf

HAL.TunlAdj.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

VR Id `%vrId%:%msg%`

Message Parameters

Name	Type
vrId	VRID
msg	Printf

HAL.TunlAdj.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

No action required - Informational message only.

Severity

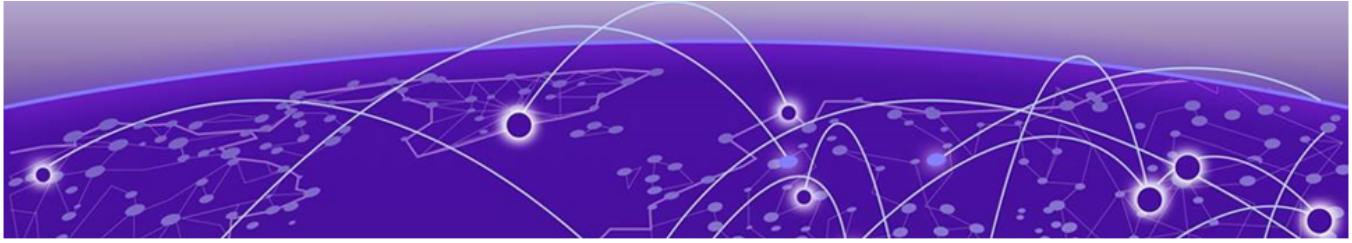
Debug-Data

Message Text

VR Id `%vrId%` : `%msg%`

Message Parameters

Name	Type
vrId	VRID
msg	Printf



HAL.VLAN Messages

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HAL.VLAN.Warning on page 2288
HAL.VLAN.Notice on page 2289
HAL.VLAN.Info on page 2289
HAL.VLAN.DebugSummary on page 2290
HAL.VLAN.DebugVerbose on page 2291
HAL.VLAN.DebugData on page 2291
HAL.VLAN.DsblLrnFiltFull on page 2292
HAL.VLAN.PVLANL2TblFull on page 2292
HAL.VLAN.PVLANL2TblFullEnt on page 2293
HAL.VLAN.ParmInv on page 2294
HAL.VLAN.VLANifNull on page 2294
HAL.VLAN.VPifNull on page 2295
HAL.VLAN.PifNull on page 2295
HAL.VLAN.VLANifHwInfoNull on page 2296
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HAL.VLAN.AddPortPSIFail on page 2297
HAL.VLAN.DelPortPSIFail on page 2298
HAL.VLAN.SendAddPortCndtMsgFail on page 2299
HAL.VLAN.SendDelPortCndtMsgFail on page 2299
HAL.VLAN.AddPortFail on page 2300
HAL.VLAN.DelPortFail on page 2301
HAL.VLAN.AddPortToVLANFlood on page 2302
HAL.VLAN.DelPortFmVLANFlood on page 2302
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HAL.VLAN.CfgVLANToVRAssoc on page 2307
HAL.VLAN.CreatVR on page 2307
HAL.VLAN.DelVR on page 2308
HAL.VLAN.AllocCndtMsgFail on page 2308
HAL.VLAN.VLANLibAPIFail on page 2309

HAL.VLAN.SendCkptMsgFail on page 2310
HAL.VLAN.AllocMemFail on page 2311
HAL.VLAN.CkptNotRdy on page 2311
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HAL.VLAN.Exit on page 2312
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HAL.VLAN.FreeTXMIFail on page 2316
HAL.VLAN.PifHwInfoInv on page 2317
HAL.VLAN.ChgVLANTagFail on page 2318
HAL.VLAN.OpenCndtFail on page 2319
HAL.VLAN.CndtAckFail on page 2319
HAL.VLAN.CndtAck on page 2320
HAL.VLAN.SendCndtMsgFail on page 2321
HAL.VLAN.SendCndtMsgDone on page 2321
HAL.VLAN.SendMCndtMsgFail on page 2322
HAL.VLAN.SetFloodDataFail on page 2323
HAL.VLAN.AllocTagModFailed on page 2323
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HAL.VLAN.DeleteTagModGotNullInfo on page 2325
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HAL.VLAN.FailedDelPortFromFL on page 2335
HAL.VLAN.FailToFindVirPortInfo on page 2336
HAL.VLAN.FailedAddingPortToFL3 on page 2337
HAL.VLAN.FailedToCreateFL on page 2337
HAL.VLAN.FailToFindVirPortInfo2 on page 2338
HAL.VLAN.ConduitInitFailed on page 2339
HAL.VLAN.ConduitSendFailed on page 2339
HAL.VLAN.ProgramHWTblFailed on page 2340
HAL.VLAN.GotNULLVlanInfo on page 2340
HAL.VLAN.StoreTagModFailed on page 2341
HAL.VLAN.RestoreVLANFLFailed on page 2341
HAL.VLAN.PortTXMIFindFailed on page 2342
HAL.VLAN.SetEncodingTblFail on page 2342
HAL.VLAN.ClearEncodingTblFail on page 2343
HAL.VLAN.CreateCustomFLFail on page 2343
HAL.VLAN.FindTagModFail on page 2344
HAL.VLAN.ConduitSendInfoFail on page 2345
HAL.VLAN.DeleteCustomFLFail on page 2345
HAL.VLAN.DelPVLANFail on page 2346
HAL.VLAN.ChkptGotNullVlanFL on page 2346
HAL.VLAN.ChkptGotNullPortList on page 2347
HAL.VLAN.ChkptGotNullPortTxmi on page 2347
HAL.VLAN.ChkptGotNullVlanIns on page 2348
HAL.VLAN.ChkptGotNullTxmi on page 2348
HAL.VLAN.ChkptMsgBadInfo on page 2349
HAL.VLAN.ConduitAllocFailed on page 2349
HAL.VLAN.GotNullPortInstance on page 2350
HAL.VLAN.TrunkCustomFLFailed on page 2350
HAL.VLAN.SyncPVLANFail on page 2351
HAL.VLAN.AddIngrVLANXlateFail on page 2351
HAL.VLAN.EnblIngrVLANXlateFail on page 2352
HAL.VLAN.DelIngrVLANXlateFail on page 2353
HAL.VLAN.StrtDfrSendUpdt on page 2353
HAL.VLAN.StopDfrSendUpdt on page 2354
HAL.VLAN.RxStatsFiltRsrcUnavail on page 2355
HAL.VLAN.TxStatsFiltRsrcUnavail on page 2356
HAL.VLAN.DelVLANXlateRangeFail on page 2357
HAL.VLAN.AddVLANXlateRangeFail on page 2357
HAL.VLAN.AddEgrVLANXlateFail on page 2358

HAL.VLAN.DelEgrVLANXlateFail on page 2359
HAL.VLAN.EnblEgrVLANXlateFail on page 2360

HAL.VLAN.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VLAN.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VLAN.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VLAN.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed

information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VLAN.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VLAN.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VLAN.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VLAN.DsblLrnFiltFull

Description

Disabling learning on a VLAN requires hardware filtering resources which are not currently available on the specified slot and unit. Learning has not been disabled on the VLAN (in the hardware) even though it will show as being configured.

Remedy

Re-enable learning on the VLAN. For example, use the "enable learning vlan <vlan_name>" command on the CLI. Then free filtering resources (for example by removing or reorganizing ACLs).

Severity

Error

Message Text

Failed to disable learning on VLAN ID `%vlanId%` due to lack of filtering resources on slot `%slot%`, unit `%unit%`

Message Parameters

Name	Type
vlanId	VLAN-tag
slot	uInt
unit	uInt

HAL.VLAN.PVLANL2TblFull

Description

At least one PVLAN or VLAN translation related MAC FDB entry could not be added because the hardware table is full. The hardware table is organized as a hash table so it is possible that there is still room for other MAC FDB entries that hash to different hash bucket locations. This message will be logged at most one time per hour while

new FDB forwarding entries trigger this condition. A more detailed message for each occurence can be seen by enabling the PVLANL2TblFullEnt debug summary message.

Remedy

If the network has exceeded the FDB resources available in the hardware, traffic will continue to flow, but it will be broadcast traffic. If this is not a transient condition, consider systems that have a larger hardware table size. If this is a transient condition, the L2 traffic will still be forwarded using L2 broadcast until the hardware table has enough space for the new MAC to be programmed. PVLANs and VLAN translation require more FDB entries than a regular VLAN, so this should be factored into the network design. Please see the technical publications for details on the increased FDB requirements for PVLANs and VLAN translation.

Severity

Error

Message Text

PVLAN/VLAN translation FDB entry not added. Hardware Table full.

HAL.VLAN.PVLANL2TblFullEnt

Description

The hardware table was full and this FDB entry could not be added for PVLAN/Vlan translation. See the information for PVLANL2TblFull for details.

Remedy

See the information for PVLANL2TblFull for details.

Severity

Debug-Summary

Message Text

PVLAN/VLAN translation FDB entry not added for `%mac%` on vlan `%phantomVlan%`. This entry was being added because the MAC was learned on vlan `%nativeVlan%`. Hardware Table full.

Message Parameters

Name	Type
nativeVlan	VLAN
phantomVlan	VLAN
mac	MAC

HAL.VLAN.ParmInv

Description

Caller handed an invalid argument.

Remedy

This usualy indicates memory corruption. Check internla-memory for core-dump if a switch was rebooted recently.

Severity

Debug-Data

Message Text

Caller handed the invalid value `%varVal%` for `%varName%`.

Message Parameters

Name	Type
varVal	sInt
varName	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.VLANifNull

Description

Either caller handed the wrong argument or the Vlan Interface does not exist in the dadtabase.

Remedy

This implies memory corruption or a problem in VLAN library. Increase the log severity to highest for HAL and VLAN to collect more data.

Severity

Debug-Data

Message Text

Vlan Interface is NULL.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.VPifNull

Description

Either caller handed the wrong argument or the Virtual port Interface does not exist in the database.

Remedy

This implies memory corruption or a problem in VLAN library. Increase the log severity to highest for HAL and VLAN to collect more data.

Severity

Debug-Data

Message Text

Virtual Port Interface is NULL.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.PifNull

Description

Either caller handed the wrong argument or the port Interface does not exist in the database.

Remedy

This implies memory corruption or a problem in VLAN library. Increase the log severity to highest for HAL and VLAN to collect more data.

Severity

Debug-Data

Message Text

Port Interface is NULL.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.VLANifHwInfoNull

Description

Hardware specific VLAN data structure does not exist in the database.

Remedy

This implies memory corruption or a duplicate path in deleting VLANs. Check internal-memory for core-dump and increase the debug-level of HAL to debug-data to collect more data.

Severity

Debug-Data

Message Text

Platform-specific VLAN information of a VLAN instance `%vlanInst%` is not available.

Message Parameters

Name	Type
vlanInst	uInt32

HAL.VLAN.AllocTXMIFail

Description

Failed to allocate a TXMI.

Remedy

Remove and re-add the port to the VMAN.

Severity

Debug-Summary

Message Text

Failed to allocate a packet modification index for port `%slot%:%port%` VLAN instance `%vlanInst%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.AddPortPSIFail

Description

Failed to add the port to the L2 flooding table in FAP.

Remedy

Increase PSI log severity to get more data.

Severity

Debug-Summary

Message Text

Failed with error-code `%error%` to add port `%slot%:%port%` to the flood group of VLAN ID `%vlanId%` with Flooding index `%floodPSI%`.

Message Parameters

Name	Type
error	sInt
slot	Slot
port	Port
vlanId	VLAN-tag
floodPSI	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.DelPortPSIFail

Description

Failed to delete the port from the L2 flooding table in FAP.

Remedy

Increase PSI log severity to get more data.

Severity

Debug-Summary

Message Text

Failed with error-code `%error%` to delete port `%slot%:%port%` from the flood group of VLAN ID `%vlanId%`.

Message Parameters

Name	Type
error	sInt
slot	Slot
port	Port

Name	Type
vlanId	VLAN-tag
floodPSI	uInt32

HAL.VLAN.SendAddPortCndtMsgFail

Description

Conduit module used up the pre-allocated conduit messagess.

Remedy

Enable the log severity of HAL.Conduit to gather more data. If all the conduit messages are used, this error occurs. Check if Conduit raised an error. If an IOB is hot swapped but HAL has not detected the change, the error also can happen. Check if IOB is in the slot and operational.

Severity

Debug-Summary

Message Text

Update of IO in slot `%slot%` failed with error-code `%error%` when a port `%slot%:%port%` is added to the VLAN instance `%vlanInst%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanInst	uInt32
error	sInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.SendDelPortCndtMsgFail

Description

Conduit module used up the pre-allocated conduit messagess.

Remedy

Enable the log severity of HAL.Conduit to gather more data. Enable the log severity of HAL.Conduit to gather more data. If all the conduit messages are used, this error occurs. Check if Conduit raised an error. If an IOB is hot swapped but HAL has not detected the change, the error also can happen. Check if IOB is in the slot and operational.

Severity

Debug-Summary

Message Text

Update of IO in slot `%slot%` failed with error-code `%error%` when a port `%slot%:%port%` is deleted from the VLAN instance `%vlanInst%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanInst	uInt32
error	sInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.AddPortFail

Description

Failed to update HW tables in the IO card or the EXOS data structure related to the Virtual port.

Remedy

Delete and add the port to the VLAN. Increase the log severity of HAL.VLAN to gather more data.

Severity

Error

Message Text

Failed with error-code `%error%` to add port `%slot%:%port%` to the VLAN instance `%vlanInst%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanInst	uInt32
error	sInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.DelPortFail

Description

Failed to update HW tables in the IO card or the EXOS data structure related to the Virtual port.

Remedy

Re-delete the port from the VLAN. Increase the log severity of HAL.VLAN to gather more data.

Severity

Error

Message Text

Failed with error-code `%error%` to delete port `%slot%:%port%` from the VLAN instance `%vlanInst%`.

Message Parameters

Name	Type
slot	Slot
port	Port

Name	Type
vlanInst	uInt32
error	sInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.AddPortToVLANFlood

Description

The control code path gets into the function adding a port to the Vlan's flood group.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

Add a port `%slot%:%port%` to the flood group of VLAN instance `%vlanInst%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.DelPortFmVLANFlood

Description

The control code path gets into the function deleting a port from the Vlan's flood group.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

Delete a port `%slot%:%port%` from the flood group of VLAN instance `%vlanInst%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.RemVLANTag

Description

The VLAN ID is removed from the VLAN due to change in tag or deletiong of the VLAN.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

Remove a VLAN ID from VLAN ID `%vlanId%`.

Message Parameters

Name	Type
vlanId	VLAN-tag

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.SyncSlot

Description

Inserting or enabling an IO card triggers the synchronization of the VLAN configuration.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

Syncrhonize the configuration of VLAN ID `%vlanId%` to slot `%slot%`.

Message Parameters

Name	Type
vlanId	VLAN-tag
slot	Slot

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.MgmtVLAN

Description

HAL does not care for the management VLAN.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

Skip the management VLAN instance `%vlanInst%` in slot `%slot%`.

Message Parameters

Name	Type
vlanInst	uInt32
slot	Slot

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.DumpVLANPSI

Description

The VLAN occupies the FAP table entry indexed by PSI to list the ports.

Remedy

This is not an error message.

Severity

Debug-Data

Message Text

VLAN Instance `%vlanInst%` has PSI `%psi%`.

Message Parameters

Name	Type
vlanInst	uInt32
psi	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.CfgIPAddr

Description

The control code path reaches the point where an IP address is assigned or removed to/from the VLAN.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

`%config%` VLAN instance `%vlanInst%` with `%ipType%` IP address `%ipAddr%`/`%maskLen%`.

Message Parameters

Name	Type
config	String
vlanInst	uInt32
ipType	String
ipAddr	IP
maskLen	IPmasklen

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.CfgVLANToVRAssoc

Description

The control code path gets into the function associating the VLAN to the virtual-router.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

Add VLAN instance `%vlanInst%` to Vr `%vrId%`.

Message Parameters

Name	Type
vlanInst	uInt32
vrId	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.CreatVR

Description

The control code path gets into the function creating the virtual-router.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

Create a virtual router `%vrId%`.

Message Parameters

Name	Type
vrId	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.DelVR

Description

The control code path gets into the function deleting the virtual-router.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

Delete a virtual router `%vrId%`.

Message Parameters

Name	Type
vrId	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.AllocCndtMsgFail

Description

Conduit module used up the pre-allocated messages in a pool.

Remedy

Increase the log severity of HAL.conduit to collect more data. If all the conduit messages in the pool are used, this error occurs. Check if Conduit raised an error. If an IOB is hot swapped but HAL has not detected the change, the error also can happen. Check if IOB is in the slot and operational.

Severity

Debug-Data

Message Text

Failed to allocate a conduit message `%mesgType%` for port `%slot%:%port%` VLAN ID `%vlanId%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag
mesgType	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.VLANLibAPIFail

Description

Functions in the Vlan library failed.

Remedy

Increase the log severity of VLAN and HAL.VLAN to collect more data.

Severity

Debug-Verbose

Message Text

VLAN Lib function `%libName%` failed for `%slot%:%port%` vlanInst `%vlanInst%` due to error `%error%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanInst	uInt32
libName	String
error	sInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.SendCkptMsgFail

Description

Device manager, an EXOS module that delivers messages between the Master and the Slave MMs, failed to deliver the message.

Remedy

Increase the log severity of DM to gather more data.

Severity

Debug-Summary

Message Text

Failed to send a Check-point message.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.AllocMemFail

Description

The system is out of memory or the pre-allocated pool is out of memory.

Remedy

Record the configuration and steps to reproduce the problem.

Severity

Debug-Data

Message Text

Failed to allocate memory.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.CkptNotRdy

Description

Due to the system configuration, check-pointing is not on. When check-pointing is not enabled, MM-failover is not working properly in the dual MM system.

Remedy

This message is a warning in case check-pointing is off by accident. Refer User's manual to enable check-pointing.

Severity

Warning

Message Text

Check-pointing is not ready.

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.Enter

Description

This message indicates the function is being executed with given arguments.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

Start of the function for port `%slot%:%port%` in VLAN `%vlanInst%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.Exit

Description

The function completes the operations.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

Complete the function for port `%slot%:%port%` in VLAN `%vlanInst%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.CfgVLANAttr

Description

The control code path reaches the function that configures the given attribute of the VLAN.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

`%config%` vlanInstance `%vlanInst%`.

Message Parameters

Name	Type
config	String
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.ConfigVLANPortAttr

Description

The control code path reaches the function that configures the given attribute of the VLAN's port.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

`%config%` port `%slot%:%port%` in vlanInstance `%vlanInst%`.

Message Parameters

Name	Type
config	String
slot	Slot
port	Port
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.VPifHwInfoNull

Description

This is a sanity check.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Platform-specific virtual port information of a port `%slot%:%port%` in VLAN instance `%vlanInst%` does not match in two different frames in one call trace.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.VLANifHwInfoInv

Description

This is a sanity check.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Platform-specific VLAN information of VLAN instance `%vlanInst%` is not matching in two different frames in one call trace.

Message Parameters

Name	Type
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.TXMIMisMatch

Description

The global packet modification index of the same recipe is different in VLAN-Port and VMAN.

Remedy

Enable "vman_txmi_debug" to gather more data.

Severity

Debug-Data

Message Text

The txmi assigned to the port `%slot%:%port%` in VLAN instance `%vlanInst%` is different from TXMI in FDB.

Message Parameters

Name	Type
halTxmi	uInt32
fdbTxmi	uInt32
slot	Slot
port	Port
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.FreeTXMIFail

Description

The TXMI does not exist in FDB.

Remedy

Enable "vman_txmi_debug" to gather more data.

Severity

Debug-Data

Message Text

Failed to free TXMI `%fdbTxmi%` in FDB assigned to port `%slot%:%port%` in VLAN instance `%vlanInst%`.

Message Parameters

Name	Type
fdbTxmi	uInt32
slot	Slot
port	Port
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.PifHwInfoInv

Description

This is a sanity check.

Remedy

No remedy is available.

Severity

Warning

Message Text

Platform-specific Port interface information of Port `%slot%:%port%` with portInstance `%portInst%` is not matching in two different frames in one call trace.

Message Parameters

Name	Type
slot	Slot
port	Port
portInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.ChgVLANTagFail

Description

The operation which is triggered when a VLAN's ID changes, failed to update the HW table in IOB.

Remedy

Increase the log severity of HAL.VLAN and HAL.conduit to collect more data.

Severity

Error

Message Text

Failed to change the tag while adding a port `%slot%:%port%` in VLAN instance `%vlanInst%`.

Message Parameters

Name	Type
op	String
slot	Slot
port	Port
vlanInst	uInt32

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.OpenCndtFail

Description

VLAN in HAL in MM failed to open conduit channel to IO.

Remedy

Increase the log severity of HAL.conduit to collect more data.

Severity

Error

Message Text

Failed to open a communication channel to IO in HAL-VLAN due to error `%error%`.

Message Parameters

Name	Type
error	sInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.CndtAckFail

Description

The HW programming in IOB or the conduit module in HAL returns an error.

Remedy

Increase the log severity of HALIO.VLAN and HAL.conduit to collect more data.

Severity

Error

Message Text

IO slot `%slot%` returned error `%error%` for message `%cndtMsgType%`.

Message Parameters

Name	Type
slot	Slot
error	String
cndtMsgType	sInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.CndtAck

Description

The message indicates that the conduit message is processed successfully in IOB.

Remedy

This is not an error message.

Severity

Debug-Summary

Message Text

IO slot `%slot%` returned OK `%ret%` for message `%cndtMsgType%`.

Message Parameters

Name	Type
slot	Slot
ret	String
cndtMsgType	sInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.SendCndtMsgFail

Description

HAL in MM failed to send a conduit event to the given slot. Each bit in the slot mask represents an IOB. If slot is 16, the message indicates an error in slot 5. 5 in decimal is 10000 in binary.

Remedy

Increase the log severity of HALIO.conduit to collect more data.

Severity

Error

Message Text

Failed to send the conduit message for port `%slot%:%port%` VLAN ID `%vlanId%` due to error `%error%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag
error	String

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.SendCndtMsgDone

Description

A conduit message is sent.

Remedy

This is not an error message.

Severity

Debug-Verbose

Message Text

Sent the conduit message for port `%slot%:%port%` VLAN ID `%vlanId%`.

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.SendMCndtMsgFail

Description

The conduit cannot multicast the message to the slots marked in the slot mask.

Remedy

Check if all the IOBs in the slot mask is operational. Increase the log severity of HAL.conduit to collect more data.

Severity

Error

Message Text

Failed to send the VLAN library message to slot in mask `%slotMask%`.

Message Parameters

Name	Type
slotMask	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.SetFloodDataFail

Description

Failed to configure the port flooding information to the L2 flooding table in FAP.

Remedy

Remove and re-add the port to the VLAN.

Severity

Error

Message Text

Failed with error-code `%error%` while configuring the flooding data for the port `%slot%:%port%` in VLAN ID `%vlanId%` with Flooding index `%floodPSI%`.

Message Parameters

Name	Type
error	sInt
slot	Slot
port	Port
vlanId	VLAN-tag
floodPSI	uInt32

HAL.VLAN.AllocTagModFailed

Description

HAL is trying to allocate hardware to do 802.1q VLAN Tag modification, but failed.

Remedy

Try adding the VLAN to PVLAN/VLAN Translation again. Or, try deleting the VLAN and creating it again. Or, check the memory.

Severity

Error

Message Text

Hardware allocation for VLAN tag modification failed for VLAN ID: `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.MemoryAllocTagModFailed

Description

HAL is trying to allocate memory to store the 802.1q VLAN Tag Translation information into the tree, but failed.

Remedy

Try the operation again

Severity

Error

Message Text

Memory allocation failed while storing VLAN tag modification information for `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.TreeInsertTagModFailed

Description

HAL is trying to insert 802.1q VLAN Tag Translation information into the tree, but failed.

Remedy

Try the operation again

Severity

Error

Message Text

Inserting VLAN tag modification information into tree failed for `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.DeleteTagModGotNullInfo

Description

HAL is trying to delete 802.1q VLAN Tag Translation information from the tree, but got no information on it.

Remedy

Try the operation again

Severity

Error

Message Text

Got NULL information to delete VLAN Tag Translation information

HAL.VLAN.DeleteTagModFailed

Description

HAL is trying to delete 802.1q VLAN Tag Translation information, but failed.

Remedy

Try the operation again

Severity

Error

Message Text

Deleting of VLAN Tag Translation information failed for vlanId `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.GotNoVirPortInfo

Description

The virtual port information received was NULL, so HAL doens't know which port to modify

Remedy

Try the operation again

Severity

Error

Message Text

HAL is trying to modify the port information in the floodlist, but received no port to modify

HAL.VLAN.GotNullPortInfo

Description

HAL needs to get the port information using the port instance in order to add it to the floodlist, but for some reason, it got a NULL back

Remedy

Try the operation again

Severity

Error

Message Text

HAL is trying to get port information from the port instance while adding port to floodlist, but received a NULL

HAL.VLAN.GotNullPortInfo2

Description

HAL needs to get the port information using the slot,port information in order to add it to the floodlist, but for some reason, it got a NULL back

Remedy

Try the operation again

Severity

Error

Message Text

HAL is trying to get port information from the slot,port info while adding port to floodlist, but received a NULL

HAL.VLAN.halMallocFailed

Description

HAL needs to malloc memory to add a new port to the floodlist, but it failed.

Remedy

Try the operation again

Severity

Error

Message Text

HAL failed to halMalloc memory for creating a new FloodListPortList entry

HAL.VLAN.halMallocFailed2

Description

HAL needs to malloc memory to create a new FloodList for a VLAN, but it failed.

Remedy

Try the operation again

Severity

Error

Message Text

HAL failed to halMalloc memory for creating a new FloodList entry

HAL.VLAN.GotNullFL

Description

While trying to checkpoint Floodlist with the backup, the MSM got NULL for Floodlist.

Remedy

Try the operation again

Severity

Error

Message Text

Got NULL for Floodlist while trying to checkpoint

HAL.VLAN.FailedMallocForChkptMsg

Description

HAL is trying to allocate memory to send checkpointing information over to the backup MSM, but failed.

Remedy

Try the operation again

Severity

Error

Message Text

Failed to allocate memory for checkpointing custom Floodlist to backup MSM/MM

HAL.VLAN.FailedToChkptFL

Description

HAL is tryiny to checkpoint the custom floodlist over to the backup MSM/MM, but failed

Remedy

Try the operation again

Severity

Error

Message Text

Failed to checkpoint custom floodlist over to backup MSM/MM

HAL.VLAN.GotNullPortInfo3

Description

HAL needs to get the port information using the slot,port information in order to add it to the floodlist, but for some reason, it got a NULL back

Remedy

Try the operation again

Severity

Error

Message Text

HAL is trying to get port information from the slot,port info while adding port to floodlist, but received a NULL

HAL.VLAN.GotNullPortInfo4

Description

HAL received a NULL when it was trying to get the port information using port instance information in order to restore the original VLAN's floodlist.

Remedy

Try the operation again

Severity

Error

Message Text

HAL is trying to get port information using port instance information while trying to restore original floodlist, but received a NULL

HAL.VLAN.GotNullPortInfo5

Description

HAL received a NULL when it was trying to get the port information using slot,port information in order to restore the original VLAN's floodlist.

Remedy

Try the operation again

Severity

Error

Message Text

HAL is trying to get port information using slot,port information while trying to restore original floodlist, but received a NULL

HAL.VLAN.GotNullPortInfo6

Description

HAL received a NULL when it was trying to get the port information using port instance information in order to delete ports from the floodlist.

Remedy

Try the operation again

Severity

Error

Message Text

HAL is trying to get port information using port instance information while trying to delete ports from the floodlist, but received a NULL

HAL.VLAN.GotNullPortInfo7

Description

HAL received a NULL when it was trying to get the port information using slot,port information in order to delete ports from the floodlist.

Remedy

Try the operation again

Severity

Error

Message Text

HAL is trying to get port information using slot,port information while trying to delete ports from the floodlist, but received a NULL

HAL.VLAN.DelPortFromFLFailed

Description

HAL received a NULL when it was trying to get the port information using slot,port information in order to delete ports from the floodlist.

Remedy

Try the operation again

Severity

Error

Message Text

HAL is removing port `%slot%:%port%` from `%vlanId%` floodlist

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag

HAL.VLAN.FailedToFindFL

Description

HAL is trying to modify the packet modification information per port in the floodlist, but it couldn't find the crafted floodlist information for that vlan.

Remedy

Try the operation again

Severity

Error

Message Text

HAL is unable to find the crafted floodlist for vlan id `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.EmptyDefaultFLFailed

Description

During the process of updating the floodlist for PVLAN/VLAN Translation, the code has to clear the default floodlist of the VLAN first, then add the back later. The code failed at removing the ports.

Remedy

Try the operation again

Severity

Error

Message Text

Failed to clean up the original floodlist for `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.InitFLFailed

Description

HAL has just cleaned up the default VLAN floodlist and now trying to add them back with special fields, but failed

Remedy

Try the operation again

Severity

Error

Message Text

HAL failed to initialize the floodlist for `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.FailedToFindFL2

Description

HAL is trying to update the floodlist, but it failed to find the floodlist in the tree

Remedy

Try the operation again

Severity

Error

Message Text

HAL is unable to find the crafted floodlist while updating floodlist for vlan `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.FailedAddingPortToFL

Description

HAL is trying to update the floodlist, but failed while adding the port to the floodlist

Remedy

Try the operation again

Severity

Error

Message Text

Failed adding `%slot%:%port%` to `%vlanId%` floodlist

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag

HAL.VLAN.FailedAddingPortToFL2

Description

HAL is trying to update the floodlist by adding ports from other VLANs to the FL, but failed

Remedy

Try the operation again

Severity

Error

Message Text

Failed adding `%slot%:%port%` to vlan ID `%vlanId%` floodlist

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag

HAL.VLAN.FailedDelPortFromFL

Description

HAL is trying to update the floodlist, but failed while deleting the port from the floodlist

Remedy

Try the operation again

Severity

Error

Message Text

Failed deleting `%slot%:%port%` from `%vlanId%` floodlist

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag

HAL.VLAN.FailToFindVirPortInfo

Description

HAL needs to add the port back into the floodlists because it became active again, but it failed to find the virtual port information. Something is wrong with the SW data structures

Remedy

Try the operation again

Severity

Error

Message Text

While processing port up notification, HAL couldn't find the virtual port information for `%slot%:%port%` in vlanId `%vlanId%`

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag

HAL.VLAN.FailedAddingPortToFL3

Description

HAL needs to add the port back into the floodlists because it became active again, but it failed to add.

Remedy

Try the operation again

Severity

Error

Message Text

Failed while adding `%slot%:%port%` to vlan ID `%vlanId%` floodlist during port up notification

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag

HAL.VLAN.FailedToCreateFL

Description

HAL failed to create crafted floodlist for the VLAN.

Remedy

Try the operation again

Severity

Error

Message Text

Failed to create floodlist while adding `%slot%:%port%` to vlan ID `%vlanId%` floodlist during port up notice

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag

HAL.VLAN.FailToFindVirPortInfo2

Description

HAL needs to remove the port back into the floodlists because it became unactive, but it failed to find the virtual port information. Something is wrong with the SW data structures

Remedy

Try the operation again

Severity

Error

Message Text

While processing port down notification, HAL couldn't find the virtual port information for `%slot%:%port%` in vlanId `%vlanId%`

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag

HAL.VLAN.ConduitInitFailed

Description

Conduit is the mechanism used for the MM and IO to communicate. It has to be initialized during system bootup otherwise no information can be exchanged for this feature

Remedy

Try rebooting the system again or contact support

Severity

Error

Message Text

Initialization of the MM/IO conduit for Private VLAN and VLAN Translation failed with the following error message: `%error%`

Message Parameters

Name	Type
error	uInt

HAL.VLAN.ConduitSendFailed

Description

MM talks to the IO via the conduit to program the Hardware.

Remedy

Retry to the operation again.

Severity

Error

Message Text

Sending conduit messages from MM to IO Private VLAN/VLAN Translation failed with the following error message: `%error%` for slotMask `%slotMask%`

Message Parameters

Name	Type
error	uInt
slotMask	uInt

HAL.VLAN.ProgramHWTblFailed

Description

Hardware tables needed to be setup in order for the feature the work properly. However, it failed so the feature will not work as expected.

Remedy

Retry to the operation again.

Severity

Error

Message Text

HW tables programming of vlan ID `%vlanId%` has failed while adding subscriber/ member vlan

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.GotNULLVlanInfo

Description

The code received NULL for VLAN information; hence, it can't process any further

Remedy

Retry to the operation again.

Severity

Error

Message Text

Received NULL VLAN Info

HAL.VLAN.StoreTagModFailed

Description

During configuration, the system failed to store the egress tag modification index

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to store egress tag modification index for vlan `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.RestoreVLANFLFailed

Description

The system failed to restore the default VLAN floodlist during configuration tear down

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to restore the default VLAN floodlist for `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.PortTXMIFindFailed

Description

Couldn't get the TXMI required for the port

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to find the transmit modification index (TXMI) for slot:port `%slot%:%port%`

Message Parameters

Name	Type
slot	Slot
port	Port

HAL.VLAN.SetEncodingTblFail

Description

Custom floodlist configuration has failed because setting of port encoding table has failed

Remedy

No remedy is available.

Severity

Error

Message Text

Setting of port encoding table for vlan `%vlanId%` slot:port `%slot%:%port%` has failed

Message Parameters

Name	Type
vlanId	VLAN-tag
slot	Slot
port	Port

HAL.VLAN.ClearEncodingTblFail

Description

Custom floodlist tear down has failed because clearing of port encoding table has failed

Remedy

No remedy is available.

Severity

Error

Message Text

Clearing of port encoding table for vlan `%vlanId%` slot:port `%slot%:%port%` has failed with error code `%rc%`

Message Parameters

Name	Type
vlanId	VLAN-tag
slot	Slot
port	Port
rc	sInt

HAL.VLAN.CreateCustomFLFail

Description

Creation of custom floodlist has failed

Remedy

No remedy is available.

Severity

Error

Message Text

Creating custom floodlist failed for vlan `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.FindTagModFail

Description

Finding TXMI for vlan has failed

Remedy

No remedy is available.

Severity

Error

Message Text

Unable to find tag modification (txmi) for vlan `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.ConduitSendInfoFail

Description

During configuration, sending message to IO has failed. Configuration is not completed.

Remedy

retry the operation again because the conduit could be overloaded

Severity

Error

Message Text

Sending information to IO through conduit failed for vlan `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.DeleteCustomFLFail

Description

Deletion of custom floodlist has failed

Remedy

No remedy is available.

Severity

Error

Message Text

Deleting custom floodlist failed for vlan `%vlanId%`

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.DelPVLANFail

Description

Failed to delete PVLAN because not enough information was received in the function

Remedy

No remedy is available.

Severity

Error

Message Text

Deleting of PVLAN has failed because PVLAN and VLAN name is NULL

HAL.VLAN.ChkptGotNullVlanFL

Description

The VLAN information the backup MM got from master MM was NULL.

Remedy

No remedy is available.

Severity

Error

Message Text

Checkpointing on backup MM got Null for VLAN information. num_data: `%error%`

Message Parameters

Name	Type
error	sInt

HAL.VLAN.ChkptGotNullPortList

Description

The port list that the backup MM got from master MM was NULL.

Remedy

No remedy is available.

Severity

Error

Message Text

Checkpointing on backup MM got Null for port list. num_data: `%error%`

Message Parameters

Name	Type
error	sInt

HAL.VLAN.ChkptGotNullPortTxmi

Description

The port TXMI that the backup MM got from master MM was NULL.

Remedy

No remedy is available.

Severity

Error

Message Text

Checkpointing on backup MM got Null for port transmit modification index (txmi). num_data: `%error%`

Message Parameters

Name	Type
error	sInt

HAL.VLAN.ChkptGotNullVlanIns

Description

The VLAN instance that the backup MM got from master MM was NULL.

Remedy

No remedy is available.

Severity

Error

Message Text

Checkpointing on backup MM got Null for VLAN instance. num_data: `%error%`

Message Parameters

Name	Type
error	sInt

HAL.VLAN.ChkptGotNullTxmi

Description

The TXMI that the backup MM got from master MM was NULL.

Remedy

No remedy is available.

Severity

Error

Message Text

Checkpointing on backup MM got Null for transmit modification index (txmi). num_data: `%error%`

Message Parameters

Name	Type
error	sInt

HAL.VLAN.ChkptMsgBadInfo

Description

The checkpointing that the backup MM got from master MM has NULL data or length

Remedy

Redo the operation again

Severity

Error

Message Text

Checkpointing message from master MM has bad no data or length

HAL.VLAN.ConduitAllocFailed

Description

The system failed to allocate space to be used for sending messages through the conduit to the IO from the MM

Remedy

Retry to the operation again.

Severity

Error

Message Text

Failed to allocate space for conduit message of size `%size%`

Message Parameters

Name	Type
size	uInt

HAL.VLAN.GotNullPortInstance

Description

The code received NULL for port instance; hence, it can't process any further

Remedy

Retry to the operation again.

Severity

Error

Message Text

Received NULL for port instance for ports in vlan `%vlanId%` while sending information over to IO from MM

Message Parameters

Name	Type
vlanId	VLAN-tag

HAL.VLAN.TrunkCustomFLFailed

Description

When a new master is selected in the trunk group, that master port has to be added to the custom floodlist. This addition has failed.

Remedy

Remove the trunk group from the VLAN and add it again.

Severity

Error

Message Text

Master trunk port in trunk group has just switched to `%slot%:%port%`, but has failed to initialize custom floodlist for VLAN ID `%vlanId%`

Message Parameters

Name	Type
slot	Slot
port	Port
vlanId	VLAN-tag

HAL.VLAN.SyncPVLANFail

Description

During IO slot boot up, PVLAN library sync from MM to IO has failed. PVLAN or VLAN Translation will not behave properly.

Remedy

Library sync is done at IO boot up. "disable slot <slot>" will turn off the slot. "enable slot <slot>" will power it up again.

Severity

Error

Message Text

During bootup of IO `%slot%`, PVLAN library sync with IO has failed

Message Parameters

Name	Type
slot	Slot

HAL.VLAN.AddIngrVLANXlateFail

Description

An attempt to add a VLAN translation hardware entry on the specified port failed. The reason_string parameter may give additional details on why this occurred. This may cause traffic destined to oldVlanId to not be handled properly.

Remedy

If the reason_string indicates a resource full condition then reduce the total number of VLANs being used for mapped services. Otherwise, deleting and re-adding VLAN memberships or saving and rebooting may restore the hardware programming.

Severity

Error

Message Text

Failed to add ingress vlan translation entry for vlanid `%oldVlanId%` to vlanid `%newVlanId%` on port `%port%` due to `%reason_string%`

Message Parameters

Name	Type
oldVlanId	VLAN-tag
newVlanId	VLAN-tag
port	String
reason_string	String

HAL.VLAN.EnblIngrVLANXlateFail

Description

The enable VLAN translation operation failed to execute successfully. The reason_string parameter may give additional details on why this occurred.

Remedy

Vlan translation is required to handle tagged VLANs when there is also an untagged VMAN membership association. Since this operation failed, VLAN traffic may be tunneled through the VMAN unexpectedly. If this was a transient failure, deleting and re-adding the VLAN memberships on the specified port may restore this setting.

Severity

Error

Message Text

Failed to add ingress vlan translation entry on port `%port%` due to `%reason_string%`

Message Parameters

Name	Type
port	String
reason_string	String

HAL.VLAN.DelIngrVLANXlateFail

Description

An attempt to delete a VLAN translation hardware entry on the specified port failed. The reason_string parameter may give additional details on why this occurred.

Remedy

Saving the configuration and rebooting should restore the proper VLAN translation hardware programming.

Severity

Error

Message Text

Failed to delete ingress vlan translation entry for vlanid `%oldVlanId%` on port `%port%` due to `%reason_string%`

Message Parameters

Name	Type
oldVlanId	VLAN-tag
port	String
reason_string	String

HAL.VLAN.StrtDfrSendUpdt

Description

HAL has received VPST Set state event from VLAN manager. This EMS message is used to profile various processing for this event

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

Start Defer Update send to IO. Profiling Data for `%str%` Vlan `%vlanTick%` Fdb `%fdbTick%` vpst `%vpstTick%` vpstSnd `%vpstSndTick%` psiAdd `%psiAddTick%` psiAddChk `%psiAddChkTick%` psiAddIoSend `%psiAddIoSndTick%` feAdd `%feAddTick%` feAddChk `%feAddChkTick%`

Message Parameters

Name	Type
str	String
vlanTick	uInt
fdbTick	uInt
vpstTick	uInt
vpstSndTick	uInt
psiAddTick	uInt
psiAddChkTick	uInt
psiAddIoSndTick	uInt
feAddTick	uInt
feAddChkTick	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.StopDfrSendUpdt

Description

HAL has received VPST Set state event from VLAN manager. This EMS message is used to profile various processing for this event

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

End of Defer update to IO. Profiling Data for `%str%` Vlan `%vlanTick%` Fdb `%fdbTick%` vpst `%vpstTick%` vpstSnd `%vpstSndTick%` psiAdd `%psiAddTick%` psiAddChk `%psiAddChkTick%` psiAddIoSend `%psiAddIoSndTick%` feAdd `%feAddTick%` feAddChk `%feAddChkTick%`

Message Parameters

Name	Type
str	String
vlanTick	uInt
fdbTick	uInt
vpstTick	uInt
vpstSndTick	uInt
psiAddTick	uInt
psiAddChkTick	uInt
psiAddIoSndTick	uInt
feAddTick	uInt
feAddChkTick	uInt

Applicable Platforms

- I386 virtual machine switch simulator

HAL.VLAN.RxStatsFiltRsrcUnavail

Description

Filtering resources required for the collection of receive statistics on the given VLAN and port are not available. The configuration for VLAN statistics collection on this port/VLAN combination has not been accepted.

Remedy

Transmit statistics may be gathered using the "tx-only" option for the "configure ports [<port_list>|all] monitor vlan <vlan_name>" command. Resources may be freed by unconfiguring features using ingress filtering hardware such as ACLs. Use the "show access-list usage [acl-rule | acl-slice] port <port>" command to display current filtering hardware usage.

Severity

Error

Message Text

Unable to add filter for receive statistics on VLAN `%vlan%` port `%port%`.

Message Parameters

Name	Type
vlan	VLAN
port	String

HAL.VLAN.TxStatsFiltRsrcUnavail

Description

Filtering resources required for the collection of transmit statistics on the given VLAN and port are not available. The configuration for VLAN statistics collection on this port/VLAN combination has not been accepted.

Remedy

Receive statistics may be gathered using the "rx-only" option for the "configure ports [<port_list>|all] monitor vlan <vlan_name>" command. Resources may be freed by unconfiguring features using egress filtering hardware such as egress ACLs. Use the "show access-list usage [acl-rule | acl-slice] port <port>" command to display current filtering hardware usage.

Severity

Error

Message Text

Unable to add filter for transmit statistics on VLAN `%vlan%` port `%port%`.

Message Parameters

Name	Type
vlan	VLAN
port	String

HAL.VLAN.DelVLANXlateRangeFail

Description

An attempt to delete a VLAN translation range hardware entry on the specified port failed. The reason_string parameter may give additional details on why this occurred.

Remedy

If the reason_string indicates "Entry not found" and there was a previous occurence of HAL.VLAN.AddVLANXlateRangeFail then this can be normal and no action is required. Otherwise, saving the configuration and rebooting should restore the proper VLAN translation hardware programming.

Severity

Error

Message Text

Failed to delete ingress VLAN translation entry for VLAN IDs `%firstVlanId%-%lastVlanId%` to vlanid `%newVlanId%` on port `%port%` due to `%reason_string%`

Message Parameters

Name	Type
firstVlanId	VLAN-tag
lastVlanId	VLAN-tag
newVlanId	VLAN-tag
port	String
reason_string	String

HAL.VLAN.AddVLANXlateRangeFail

Description

An attempt to add a VLAN translation range hardware entry on the specified port failed. The reason_string parameter may give additional details on why this occurred. This may cause traffic destined to firstVlanId-lastVlanId to not be handled properly.

Remedy

If the reason_string indicates a resource full condition then reduce the total number of VLANs being used for mapped services. Otherwise, deleting and re-adding VLAN memberships or saving and rebooting may restore the hardware programming.

Severity

Error

Message Text

Failed to add ingress VLAN translation entry for VLAN IDs `%firstVlanId%-%lastVlanId%` to vlanid `%newVlanId%` on port `%port%` due to `%reason_string%`

Message Parameters

Name	Type
firstVlanId	VLAN-tag
lastVlanId	VLAN-tag
newVlanId	VLAN-tag
port	String
reason_string	String

HAL.VLAN.AddEgrVLANXlateFail

Description

An attempt to add an egress VLAN translation hardware entry on the specified port failed. The reason_string parameter may give additional details on why this occurred. This may cause traffic destined to oldVlanId to not be handled properly.

Remedy

If the reason_string indicates a resource full condition then reduce the total number of VLANs being used for mapped services. Otherwise, deleting and re-adding VLAN memberships or saving and rebooting may restore the hardware programming.

Severity

Error

Message Text

Failed to add egress VLAN translation entry for VLAN ID `%oldVlanId%` to VLAN ID `%newVlanId%` on port `%port%` due to `%reason_string%`

Message Parameters

Name	Type
oldVlanId	VLAN-tag
newVlanId	VLAN-tag
port	String
reason_string	String

HAL.VLAN.DelEgrVLANXlateFail

Description

An attempt to delete an egress VLAN translation hardware entry on the specified port failed. The reason_string parameter may give additional details on why this occurred.

Remedy

If the reason_string indicates "Entry not found" and there was a previous occurence of HAL.VLAN.AddEgrVLANXlateFail then this can be normal and no action is required. Otherwise, saving the configuration and rebooting should restore the proper VLAN translation hardware programming.

Severity

Error

Message Text

Failed to delete egress VLAN translation entry for VLAN ID `%oldVlanId%` on port `%port%` due to `%reason_string%`

Message Parameters

Name	Type
oldVlanId	VLAN-tag
port	String
reason_string	String

HAL.VLAN.EnblEgrVLANXlateFail

Description

The enable egress VLAN translation operation failed to execute successfully. The reason_string parameter may give additional details on why this occurred. Due to this failure, VLAN traffic may not be properly translated when egressing the specified port.

Remedy

Rebooting and attempting to issue the configuration again may resolve this condition.

Severity

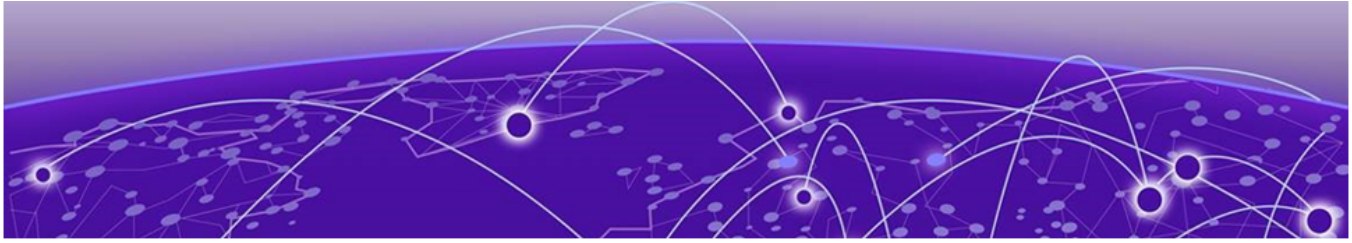
Error

Message Text

Failed to enable egress VLAN translation on port `%port%` due to `%reason_string%`

Message Parameters

Name	Type
port	String
reason_string	String



HAL.VMAN Messages

HAL.VMAN.DebugSummary on page 2361
HAL.VMAN.AddSVIDFail on page 2362
HAL.VMAN.SetUpdtSVIDFail on page 2362
HAL.VMAN.DelPortUpdtSVIDFail on page 2363
HAL.VMAN.AddPortUpdtSVIDFail on page 2364
HAL.VMAN.TxMISyncPortFail on page 2365

HAL.VMAN.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VMAN.AddSVIDFail

Description

An internal software error has occured while adding a port with a translated SVID to a VMAN. This indicates that the translated port has not been added correctly to the VMAN and the translated port may not function properly.

Remedy

Delete and readd the translated port to the VMAN. If the problem persists, Increase the log severity level of HAL.VMAN and report this problem to the customer support with the output of "show log" command.

Severity

Error

Message Text

Failed to add translated SVID `%vmanxsvid%` for the port `%slot%:%port%` in VMAN `%vmanname%`

Message Parameters

Name	Type
slot	Slot
port	Port
vmanxsvid	VLAN-tag
vmanname	String

HAL.VMAN.SetUpdtSVIDFail

Description

An internal software error has occured while updating a translated port with a new translated SVID to a VMAN. This indicates that the translated port has not been updated correctly to the VMAN and the translated port may not function properly.

Remedy

Delete and readd the translated port with the new SVID to the VMAN. If the problem persists, Increase the log severity level of HAL.VMAN and report this problem to the customer support with the output of "show log" command.

Severity

Error

Message Text

Failed to set the translated SVID while updating the translated SVID `%vmanxsvid%` for the port `%slot%:%port%` in VMAN `%vmanname%`

Message Parameters

Name	Type
slot	Slot
port	Port
vmanxsvid	VLAN-tag
vmanname	String

HAL.VMAN.DelPortUpdtSVIDFail

Description

An internal software error has occured while updating a translated port with a new translated SVID to a VMAN. This indicates that the translated port has not been updated correctly to the VMAN and the translated port may not function properly.

Remedy

Delete and readd the translated port with the new SVID to the VMAN. If the problem persists, Increase the log severity level of HAL.VMAN and report this problem to the customer support with the output of "show log" command.

Severity

Error

Message Text

Failed to delete the port while updating the translated SVID `%vmanxsvid%` for the port `%slot%:%port%` in VMAN `%vmanname%`

Message Parameters

Name	Type
slot	Slot
port	Port
vmanxsvid	VLAN-tag
vmanname	String

HAL.VMAN.AddPortUpdtSVIDFail

Description

An internal software error has occured while updating a translated port with a new translated SVID to a VMAN. This indicates that the translated port has not been updated correctly to the VMAN and the translated port may not function properly.

Remedy

Delete and readd the translated port with the new SVID to the VMAN. If the problem persists, Increase the log severity level of HAL.VMAN and report this problem to the customer support with the output of "show log" command.

Severity

Error

Message Text

Failed to add the port while updating the translated SVID `%vmanxsvid%` for the port `%slot%:%port%` in VMAN `%vmanname%`

Message Parameters

Name	Type
slot	Slot
port	Port
vmanxsvid	VLAN-tag
vmanname	String

HAL.VMAN.TxMISyncPortFail

Description

An internal software error has ocurred while synchronizing the packet modification information for a port in a VMAN in the backup MSM. This indicates that the backup MSM is out of sync with the active MSM.

Remedy

Reboot the backup MSM. If the problem persists, Increase the log severiry level of HAL.VMAN, HAL.VLAN and report this issue to the custmer support with the output of "show tech log"

Severity

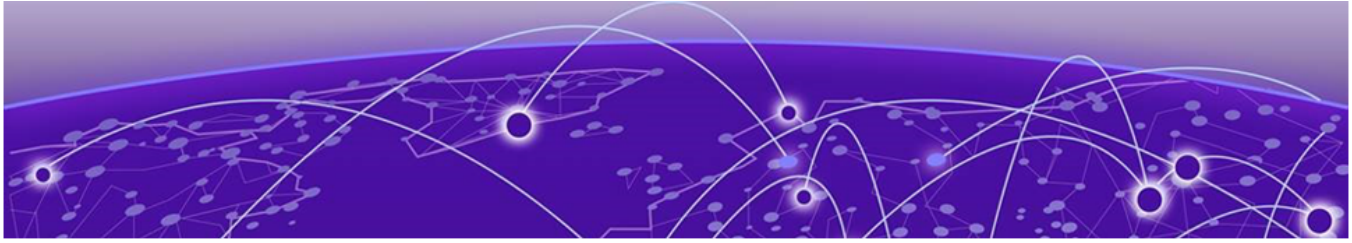
Error

Message Text

Failed to synchronize the packet modification information for the port `%slot%:%port%` in VMAN `%vmanname%` to backup node

Message Parameters

Name	Type
slot	Slot
port	Port
vmanname	String



HAL.VNet Messages

HAL.VNet.DebugSummary on page 2366
HAL.VNet.DebugVerbose on page 2367
HAL.VNet.DebugData on page 2367
HAL.VNet.AllocMemFail on page 2368
HAL.VNet.Error on page 2368

HAL.VNet.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VNet.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VNet.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VNet.AllocMemFail

Description

Memory for the displayed object could not be allocated. This may be due to the system running low on memory. This will result in incorrect programming of hardware tables and will impact forwarding of tenant traffic.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure.

Message Parameters

Name	Type
obj	String

HAL.VNet.Error

Description

While programming the hardware, the specified error was encountered. This can result in incorrect programming of hardware tables and impact forwarding of tenant traffic.

Remedy

This is an internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

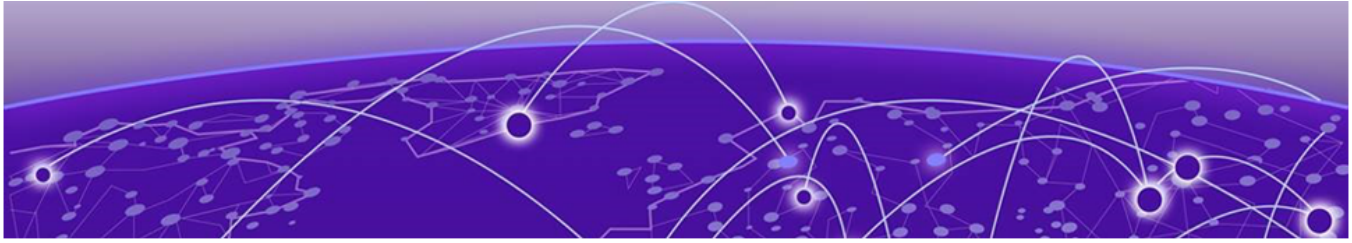
Error

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf



HAL.VPEX Messages

HAL.VPEX.DebugSummary on page 2370
HAL.VPEX.DebugVerbose on page 2371
HAL.VPEX.DebugData on page 2371
HAL.VPEX.InsCard on page 2372
HAL.VPEX.remCard on page 2372
HAL.VPEX.InvCard on page 2373
HAL.VPEX.RecvUnkMsg on page 2374
HAL.VPEX.Error on page 2374
HAL.VPEX.BPEActvImgVerInCompat on page 2375
HAL.VPEX.BPEInstlImgVerIncompat on page 2376
HAL.VPEX.SkipDiagImgUpdt on page 2376
HAL.VPEX.AddExtndPortLAGFiltFull on page 2377

HAL.VPEX.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VPEX.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VPEX.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.VPEX.InsCard

Description

An 802.1BR Bridge Port Extender (BPE) device has attached.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Bridge Port Extender type `%cardType%` inserted into slot `%slot%`, cascade port `%cascadePort%`

Message Parameters

Name	Type
slot	Slot
cardType	String
cascadePort	SlotPort

HAL.VPEX.remCard

Description

An 802.1BR Bridge Port Extender (BPE) device has been removed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Bridge Port Extender type `%cardType%` removed from slot `%slot%`, cascade port `%cascadePort%`

Message Parameters

Name	Type
slot	Slot
cardType	String
cascadePort	SlotPort

HAL.VPEX.InvCard

Description

An 802.1BR Bridge Port Extender (BPE) device has attached but is not recognized by this version of EXOS.

Remedy

No action required - Informational message only.

Severity

Error

Message Text

Bridge Port Extender model-name `%modelName%` in slot `%slot%` and cascade port `%cascadePort%` not recognized

Message Parameters

Name	Type
slot	Slot
modelName	String
cascadePort	SlotPort

HAL.VPEX.RecvUnkMsg

Description

This message indicates that VPEX application has sent an unrecognized message to HAL.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Received unknown internal message type `%type%`

Message Parameters

Name	Type
type	uInt

HAL.VPEX.Error

Description

While programming the hardware, the specified error was encountered. This can result in incorrect programming of hardware tables and impact forwarding of extended port traffic.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim the resource.

Severity

Error

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.VPEX.BPEActvImgVerInCompat

Description

Bridge Port Extender (BPE) device active image version is not compatible with running EXOS version.

Remedy

Please install the recommended BPE xmod version

Severity

Warning

Message Text

The active BPE image version `%bpeActivVer%` in `%slot%` is not compatible with the active EXOS image version `%exosVer%`. Please install the BPE Xmod having image version `%bpeRecomVer%`.

Message Parameters

Name	Type
slot	Slot
bpeActivVer	String
exosVer	String
bpeRecomVer	String

HAL.VPEX.BPEInstlImgVerIncompat

Description

Installed BPE xmod image version is not compatible with running EXOS version.

Remedy

Please un-install the installed BPE xmod and install the recommended BPE xmod version

Severity

Warning

Message Text

The installed BPE XMOD having version `%bpeXmodVer%` is not compatible with the active EXOS image version `%exosVer%`. Please install the BPE Xmod having image version `%bpeRecomVer%`.

Message Parameters

Name	Type
bpeXmodVer	String
exosVer	String
bpeRecomVer	String

HAL.VPEX.SkipDiagImgUpdt

Description

The BPE XMOD contains a diagnostic firmware image for updating the BPE prior to running the diagnostics. When the BPE XMOD is not present, the diagnostic run proceeds without the firmware update.

Remedy

Download and install the VPEX BPE XMOD (or the equivalent Controlling Bridge List) with the command "download image".

Severity

Warning

Message Text

Skipping diagnostic image update for VPEX extended slot `%slot%`.

Message Parameters

Name	Type
slot	Slot

HAL.VPEX.AddExtndPortLAGFiltFull

Description

Filtering resources required for the blocking of extended port LAG members in MLAG topology are not available. This could result in duplicate packets and packet looping and requires immediate attention.

Remedy

Resources may be freed by unconfiguring features using egress filtering hardware such as vlan statistics. Use the "show access-list usage [acl-rule | acl-slice] port <port>" command to display current filtering hardware usage.

Severity

Error

Message Text

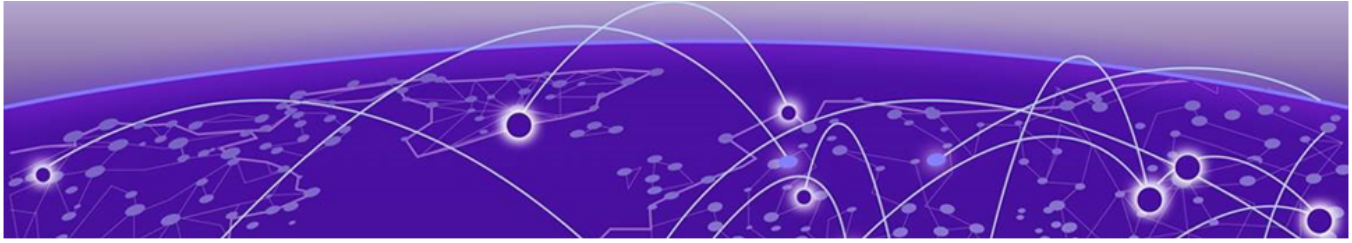
Unable to add filter to block extended port LAG members in MLAG topology on slot `%slot%`, unit `%unit%` for port `%port%`.

Message Parameters

Name	Type
slot	Slot
unit	uInt
port	SlotPort

Applicable Platforms

- Summit family switches



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HAL.VSM.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VSM.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VSM.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

HAL.VSM.BlkIngPort

Description

This message indicates the upper layer VSM application has issued an API call to block the specified port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Block ingress port `%ingressPort%` to port `%blockPort%`

Message Parameters

Name	Type
ingressPort	SlotPort
blockPort	SlotPort

HAL.VSM.UnblkIngPort

Description

This message indicates the upper layer VSM application has issued an API call to unblock the specified port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Unblock ingress port `%ingressPort%` to port `%blockPort%`

Message Parameters

Name	Type
ingressPort	SlotPort
blockPort	SlotPort

HAL.VSM.EnblRedirEgrPort

Description

This message indicates the upper layer VSM application has issued an API call to enable redirection for the specified egress port to the specified redirect port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Enable redirect for egress port `%egressPort%` to port `%redirectPort%`

Message Parameters

Name	Type
egressPort	SlotPort
redirectPort	SlotPort

HAL.VSM.DsblRedirEgrPort

Description

This message indicates the upper layer VSM application has issued an API call to disable redirection for the specified egress port to the specified redirect port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Disable redirect for egress port `%egressPort%` to port `%redirectPort%`

Message Parameters

Name	Type
egressPort	SlotPort
redirectPort	SlotPort

HAL.VSM.RecvUnkMsg

Description

This message indicates the upper layer VSM application has issued an unrecognized API call.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Received unknown internal message type `%type%`

Message Parameters

Name	Type
type	uInt

HAL.VSM.FndPortFail

Description

This message indicates the hardware abstraction layer could not find the port interface structure given the port instance identifier supplied by th VSM application.

Remedy

Retrying the operation may remedy the symptom. Otherwise, this is an internal condition that requires engineering assistance. Please call technical support.

Severity

Error

Message Text

Could not find port `%portInst%`

Message Parameters

Name	Type
portInst	uInt32

HAL.VSM.MLAGUnsuprtPort

Description

This message indicates the upper layer VSM application has issued an API call on a port which does not support the MLAG capability

Remedy

Unconfigure the feature on the specified port and choose another port.

Severity

Error

Message Text

MLAG feature is not supported on port `%port%`

Message Parameters

Name	Type
port	SlotPort

HAL.VSM.AllocMLAGMemFail

Description

A memory allocation required for MLAG operation has failed. The MLAG feature may have unexpected behabior.

Remedy

If the box has run out of memory due to features enabled by the user, turn off some features to free additional memory and try the MLAG configuration again.

Severity

Error

Message Text

Memory allocation failed

HAL.VSM.UnitInv

Description

The specified internal chip identifier is out of range.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Invalid unit `%unit%`

Message Parameters

Name	Type
unit	uInt

HAL.VSM.CreatFiltFail

Description

A filter creation attempt has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Filter creation failed on slot %slot%, unit %unit% return code %rv%

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

HAL.VSM.QualPortFail

Description

An attempt to qualify the specified port has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Port %slotPort% qualification failed on slot %slot%, unit %unit% return code %rv%

Message Parameters

Name	Type
slotPort	SlotPort
slot	uInt
unit	uInt
rv	uInt

HAL.VSM.QualTrunkFail

Description

An attempt to qualify the specified LAG has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Trunk id `%TGID%` qualification failed on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
TGID	uInt
slot	uInt
unit	uInt
rv	uInt

HAL.VSM.AddFiltActFail

Description

An attempt to add the egress block mask filter action has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Add filter action operation failed on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

HAL.VSM.InstlFiltFail

Description

An attempt to install an egress block mask filter has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Filter install failed on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

HAL.VSM.ReInstlFiltFail

Description

An attempt to re-install an egress block mask filter has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Filter re-install failed on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

HAL.VSM.CnvrtFiltFail

Description

This log indicates an internal error was generated while converting the filter identifier. This may lead to the inability to manipulate this filter in the future.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Failed to convert filter on slot `%slot%`, unit `%unit%`

Message Parameters

Name	Type
slot	uInt
unit	uInt

HAL.VSM.RepairFilt

Description

This log indicates that the specified egress blocking filter has been repaired after a node failover.

Remedy

There is no remedy because there is no problem to be resolved. This message is for informational purposes only.

Severity

Info

Message Text

Repaired egress block filter on slot `%slot%` unit `%unit%`

Message Parameters

Name	Type
slot	uInt
unit	uInt

HAL.VSM.RepairFiltFail

Description

This log indicates that an attempt to repair the specified egress blocking filter failed after a node failover. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Failed to repair egress block filter on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

HAL.VSM.InstlHwFiltFail

Description

An attempt to install an egress block mask filter to hardware has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Filter hardware install failed on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

HAL.VSM.FiltHwFull

Description

An attempt to install an egress block mask filter to hardware has failed due to a resource condition.

Remedy

Unconfigure other features which use the hardware ACL resource and re-try configuration.

Severity

Warning

Message Text

Filter hardware full on slot `%slot%`, unit `%unit%`

Message Parameters

Name	Type
slot	uInt
unit	uInt

HAL.VSM.RecvUnsuprtCkptVer

Description

The backup node received a checkpoint message with an unsupported version indentifier. Since the backup node is not in sync a node failover may result in unexpected behavior.

Remedy

Make sure that both the master and the backup nodes are running indentical versions of EXOS.

Severity

Warning

Message Text

Received unsupported checkpoint version `%ver%`

Message Parameters

Name	Type
ver	uInt

HAL.VSM.ReconcilFiltInSync

Description

After a node failover and during filter reconciliation, the specified block filter was found to be in sync.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

Found VSM block filterid `%fid%` for `%slotPort%` unit `%unit%`, in sync

Message Parameters

Name	Type
fid	uInt
slotPort	SlotPort
unit	uInt

HAL.VSM.ReconcilAddFilt

Description

After a node failover and during filter reconciliation, the specified block filter was found to not be in sync. As a result, the filter was re-added.

Remedy

There is no remedy because there is no problem to be resolved. This message is for informational purposes only.

Severity

Info

Message Text

Found VSM block filterid `%fid%` for `%slotPort%` unit `%unit%`, not in sync added

Message Parameters

Name	Type
fid	uInt
slotPort	SlotPort
unit	uInt

HAL.VSM.ReconcilDelFilt

Description

After a node failover and during filter reconciliation, the specified block filter was found to not be in sync. As a result, the filter was deleted.

Remedy

There is no remedy because there is no problem to be resolved. This message is for informational purposes only.

Severity

Info

Message Text

Found VSM block filterid `%fid%` for `%slotPort%` unit `%unit%`, not in sync deleted

Message Parameters

Name	Type
fid	uInt
slotPort	SlotPort
unit	uInt

HAL.VSM.FastCnvrgCtrlSyncFail

Description

The access-list filter associated with MLAG fast convergence-control was not programmed on the slot during initialization. Traffic destined to the associated MLAG group which is received on the slot will be dropped.

Remedy

The user can try rebooting the slot or discontinue using MLAG fast convergence-control mode by issuing "configure mlag port convergence-control conserve-access-lists".

Severity

Error

Message Text

MLAG fast convergence-control has failed to synchronize on slot `%slot%`

Message Parameters

Name	Type
slot	uInt

HAL.VSM.SetHwFiltClassIdFail

Description

An attempt to set classId on egress block mask filter to hardware has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Filter hardware classId set failed on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.VSM.SelHwFiltClassIdFail

Description

An attempt to set classId selection method on egress block mask filter to hardware has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Filter hardware classId selection failed on slot `%slot%`, unit `%unit%` return code `%rv%`

Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

HAL.VSM.SetL2DestHitQualFail

Description

An attempt to set the packet resolution criterion on egress block mask filter to hardware has failed. The specified return code value is provided by the low level driver which has only internal significance.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: - output of "show tech"

Severity

Error

Message Text

Filter hardware packet resolution matching failed on slot `%slot%`, unit `%unit%` return code `%rv%`

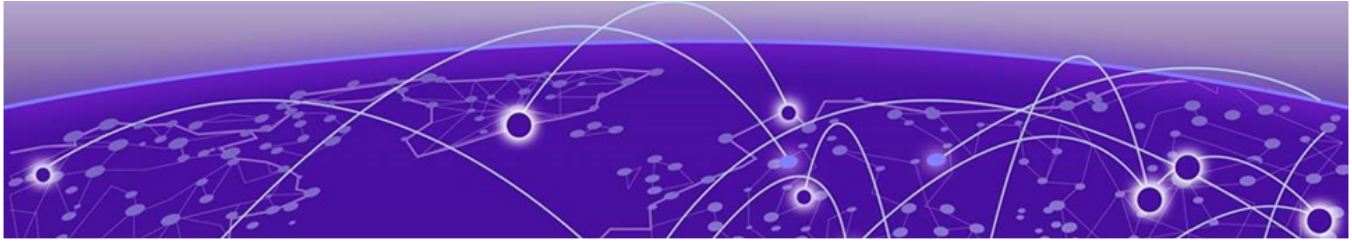
Message Parameters

Name	Type
slot	uInt
unit	uInt
rv	uInt

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator



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HAL.VXLAN.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.VXLAN.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

Provide the configuration, and the "show log" output. Also, check the scalability limit and compare this with the current configurations.

Severity

Debug-Verbose

Message Text

Null pointer `%arg%`

Message Parameters

Name	Type
arg	String

HAL.VXLAN.AllocMemFail

Description

Memory for the displayed object could not be allocated. This may be due to the system running low on memory. This will result in incorrect programming of hardware tables and will impact forwarding of tenant traffic.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure.

Message Parameters

Name	Type
obj	String

HAL.VXLAN.AllocHwFail

Description

Hardware resource for the displayed object could not be allocated. This will result in incorrect programming of hardware tables and will impact forwarding of tenant traffic.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim the resource.

Severity

Error

Message Text

Hardware resource `%obj%` allocation failed.

Message Parameters

Name	Type
obj	String

HAL.VXLAN.VNetExist

Description

An internal function was called to create virtual network that already exists. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Virtual network with internal id `%vnId%` exists.

Message Parameters

Name	Type
vnId	uInt32

HAL.VXLAN.VNetNotFnd

Description

An internal function was called for a virtual network that does not exists. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Virtual network with internal id `%vnId%` is not found.

Message Parameters

Name	Type
vnId	uInt32

HAL.VXLAN.VNetHwOperFail

Description

Hardware programming error for virtual network. This will impact forwarding of tenant traffic. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Virtual network hardware resource `%op%` failed for virtual network with internal id `%vnId%`, rc=`%rc%`.

Message Parameters

Name	Type
op	String
vnId	uInt32
rc	uInt32

HAL.VXLAN.VNetInsFail

Description

This is an internal error caused by failure of inserting into internal data structure.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Fail to insert virtual network with internal id `%vnId%` into data structure.

Message Parameters

Name	Type
vnId	uInt32

HAL.VXLAN.VNetDelFailHasPort

Description

Virtual network that has virtual ports cannot be deleted. Deletion of virtual ports must happen first and it should, hence this is an internal error.

Remedy

Provide the configuration, and the "show log" output.

Severity

Error

Message Text

Deletion of virtual network with internal id `%vnId%` failed because it has virtual ports.

Message Parameters

Name	Type
vnId	uInt32

HAL.VXLAN.VLANNotAttach

Description

The vlan has not been attached to the virtual network. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

VLAN `%vlan%` isn't attached to virtual network with internal id `%vnId%`.

Message Parameters

Name	Type
vlan	String
vnId	uInt32

HAL.VXLAN.VNetAlrdyVLANAttach

Description

A vlan has been attached to the virtual network. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

VLAN `%avlan%` is already attached to virtual network internal id `%vnId%`. VLAN `%nvlan%` can not be added.

Message Parameters

Name	Type
avlan	String
vnId	uInt32
nvlan	String

HAL.VXLAN.VPortInUse

Description

A virtual port that represents tenant access port or remote endpoint is in use.

Remedy

Retry the operation. If the error persists, provide the configuration, and the "show log" output.

Severity

Error

Message Text

Virtual port `%vp%` is in use.

Message Parameters

Name	Type
vp	uInt32

HAL.VXLAN.TunlAlrdyExist

Description

An internal function was called to create a tunnel that already exists. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Tunnel for remote endpoint `%dst%` and local endpoint `%src%` exists.

Message Parameters

Name	Type
dst	IP
src	IP

HAL.VXLAN.InsTunlFail

Description

This is an internal error cause by failure of inserting into internal data structure.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Fail to insert tunnel for remote endpoint `%dst%` and local endpoint `%src%` into data structure.

Message Parameters

Name	Type
dst	IP
src	IP

HAL.VXLAN.TunlNotFnd

Description

An internal function was called for a tunnel that does not exists. This can happen due to timing issue.

Remedy

Provide the configuration, and the "show log" output.

Severity

Debug-Verbose

Message Text

Tunnel for remote endpoint `%dst%` and local endpoint `%src%` does not exist.

Message Parameters

Name	Type
dst	IP
src	IP

HAL.VXLAN.TunlInUse

Description

Tunnel is in use. Not an error because there is a try to delete and if there is an error, a retry will be done later.

Remedy

Retry the operation. If the error persists, provide the configuration, and the "show log" output.

Severity

Debug-Verbose

Message Text

Tunnel for remote endpoint `%dst%` and local endpoint `%src%` is in use.

Message Parameters

Name	Type
dst	IP
src	IP

HAL.VXLAN.AllocSpecHwFail

Description

Hardware resource for the displayed object could not be allocated. This will result in incorrect programming of hardware tables and will impact forwarding of tenant traffic.

Remedy

Provide the configuration, and the "show log" output.

Severity

Critical

Message Text

Hardware resource `%obj%` allocation failed for id `%id%`.

Message Parameters

Name	Type
obj	String
id	uInt32

HAL.VXLAN.InsVPortFail

Description

This is an internal error cause by failure of inserting into internal data structure.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Fail to insert virtual port `%vp%` for virtual-network with internal id `%vnId%`.

Message Parameters

Name	Type
vp	uInt32
vnId	uInt32

HAL.VXLAN.TunlEgrAlrdyExist

Description

Tunnel egress already exists.

Remedy

Provide the configuration, and the "show log" output.

Severity

Debug-Verbose

Message Text

Tunnel for remote endpoint `%dst%` and local endpoint `%src%` egress for next hop `%nhip%` exists.

Message Parameters

Name	Type
dst	IP
src	IP
nhip	IP

HAL.VXLAN.InsTunlEgrFail

Description

This is an internal error cause by failure of inserting into internal data structure.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Fail to insert tunnel for remote endpoint `%dst%` and local endpoint `%src%` egress next hop `%nhip%` port `%inst%` into data structure.

Message Parameters

Name	Type
dst	IP
src	IP
nhip	IP
inst	uInt32

HAL.VXLAN.TunlEgrNotFnd

Description

Tunnel egress does not exist. This most likely is an internal error.

Remedy

Provide the configuration, and the "show log" output.

Severity

Warning

Message Text

Tunnel for remote endpoint `%dst%` and local endpoint `%src%` egress for next hop `%nhip%` not found (`%op%`: `%fam%` `%intf%`).

Message Parameters

Name	Type
dst	IP
src	IP
nhip	IP
op	String
fam	uInt32
intf	uInt32

HAL.VXLAN.LifNotFnd

Description

VLAN manager function returned a NULL port interface for port instance

Remedy

Provide the configuration, and the "show log" output.

Severity

Error

Message Text

Port with internal instance `%instance%` not found.

Message Parameters

Name	Type
instance	uInt32

HAL.VXLAN.TunlIdNotFnd

Description

An internal function was called for a tunnel that does not exists. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Tunnel with internal id `%id%` does not exist.

Message Parameters

Name	Type
id	uInt32

HAL.VXLAN.ECMPHwOperFail

Description

Hardware programming error for ECMP. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

ECMP hardware `%op%` failed for virtual port `%vp%`, rc=`%rc%`.

Message Parameters

Name	Type
op	String
vp	uInt32
rc	uInt32

HAL.VXLAN.AccessVportNotFnd

Description

A virtual port that represents tenant access port is not found. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Access virtual port for virtual-network instance `%vn%` vpif `%vpif%` not found.

Message Parameters

Name	Type
vn	uInt32
vpif	uInt32

HAL.VXLAN.VNetForVLANNotFnd

Description

A virtual network for the tenant vlan is not found. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Virtual-network for vlan instance `%vlan%` not found.

Message Parameters

Name	Type
vlan	uInt32

HAL.VXLAN.BatchTypeInv

Description

Invalid batch type is programmed to the slot. This is a programming error and should not happen, hence it is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Invalid batch type `%type%` for slot `%slot%`.

Message Parameters

Name	Type
type	uInt32
slot	uInt32

HAL.VXLAN.BatchCmmtFail

Description

Fail to commit batch to the slot. This is a hardware programming error and should not happen, hence it is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

VXLAN batch commit failed for slot `%slot%`, error `%message%`.

Message Parameters

Name	Type
slot	uInt32
message	String

HAL.VXLAN.CkptTypeInv

Description

Checkpoint message with unknown type should not happen. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Invalid checkpoint type `%type%`.

Message Parameters

Name	Type
type	uInt32

HAL.VXLAN.VPifNotFnd

Description

VLAN manager does not have this VPIF. This should not happen, hence it is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

VPIF instance `%vpif%` or vlan instance `%vlan%`, port inst `%port%`, vpif vid `%vid%` not found.

Message Parameters

Name	Type
vpif	uInt32
vlan	uInt32
port	uInt32
vid	uInt32

HAL.VXLAN.VPortNotFnd

Description

A virtual port that represents tenant access port or remote endpoint is not found. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Virtual port `%vp%` for virtual network with internal id `%vnId%` is not found.

Message Parameters

Name	Type
vp	uInt32
vnId	uInt32

HAL.VXLAN.VNetHwRsrcNotFnd

Description

An internal function was called for a vfi that does not exists. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Cannot find a corresponding virtual network for hardware resource vfi `%vfi%`.

Message Parameters

Name	Type
vfi	uInt32

HAL.VXLAN.PortTypeUnk

Description

Port type is not recognized. This should not happen thus and is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Unknown VXLAN port type `%type%`.

Message Parameters

Name	Type
type	uInt32

HAL.VXLAN.TunlMismatch

Description

This mismatch happens during checkpointing. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Tunnel `%type%` virtual port hardware resource for remote endpoint `%dst%` and local endpoint `%src%` supposed to be `%vp1%` instead of `%vp2%`.

Message Parameters

Name	Type
type	String
dst	IP
src	IP
vp1	uInt32
vp2	uInt32

HAL.VXLAN.VPortAlrdyExist

Description

Hardware resource virtual port allocation fails due to there already is a virtual port with the same index. This can happen during addition of a remote VXLAN FDB entry.

Remedy

This is informational message.

Severity

Info

Message Text

Virtual port `%vp%` exists.

Message Parameters

Name	Type
vp	uInt32

HAL.VXLAN.TunlPortTypeUnk

Description

Tunnel has a port type. This is an unknown type and is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Unknown port type `%type%` for tunnel with remote endpoint `%dst%` and local endpoint `%src%`.

Message Parameters

Name	Type
type	uInt32
dst	IP
src	IP

HAL.VXLAN.TunlHwOperFail

Description

Fail to program hardware resource for a tunnel. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Failed to set hardware resource for tunnel with remote endpoint `%dst%` and local endpoint `%src%`.

Message Parameters

Name	Type
dst	IP
src	IP

HAL.VXLAN.PifSlotPortNotFnd

Description

VLAN manager function returned an error for the port.

Remedy

Provide the configuration, and the "show log" output.

Severity

Error

Message Text

No pif found for port `%slot%:%port%`.

Message Parameters

Name	Type
slot	uInt32
port	uInt32

HAL.VXLAN.SetAccessEgrVPortFail

Description

Hardware programming to set the egress of an access virtual port failed. Forwarding is impacted. This should not happen and is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Failed to set access egress for virtual port `%vp%`.

Message Parameters

Name	Type
vp	uInt32

HAL.VXLAN.SetVPortHwFail

Description

Hardware programming to set a virtual port failed. Forwarding is impacted. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Failed to set virtual port `%vp%`.

Message Parameters

Name	Type
vp	uInt32

HAL.VXLAN.ParmInv

Description

An internal function was called with an invalid parameter. This condition is not expected and the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Invalid parameter `%arg%`. Reason: `%str%`.

Message Parameters

Name	Type
arg	String
str	String

HAL.VXLAN.McastEgrHwOperFail

Description

Hardware programming to set multi-destination egress hardware resource failed. Multidestination traffic is impacted. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

`%op%` mcast egress port failed for VFI `%vfi%` VP `%vp%` IPMC `%ipmc%` PIF `%pif%`.

Message Parameters

Name	Type
op	String
vfi	uInt32
vp	uInt32
ipmc	uInt32
pif	uInt32

HAL.VXLAN.AccessVPortMismatch

Description

This mismatch happens during checkpointing. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Access virtual port supposed to be `%vp1%` instead of `%vp2%`.

Message Parameters

Name	Type
vp1	uInt32
vp2	uInt32

HAL.VXLAN.DebugSummary

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.VXLAN.TunlNotAssoc

Description

Deletion of a network port of a virtual network failured because there is no tunnel associated with the port. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Tunnel with remote endpoint `%dst%` and local endpoint `%src%` is not associated with virtual network with internal id `%id%`.

Message Parameters

Name	Type
dst	IP
src	IP
id	uInt32

HAL.VXLAN.NotSuprt

Description

This slot does not support VXLAN.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

VXLAN is not supported on slot `%slot%`.

Message Parameters

Name	Type
slot	uInt32

HAL.VXLAN.VLANNotFnd

Description

VLAN manager function returned an error for the vlan. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Vlan with instance `%inst%` is not found.

Message Parameters

Name	Type
inst	uInt32

HAL.VXLAN.VNIDNotFnd

Description

Fail to find a virtual network with a matching VNID. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Virtual network with VNID `%vnid%` is not found.

Message Parameters

Name	Type
vnid	uInt32

HAL.VXLAN.NetVPortNotFound

Description

A virtual port that represents a remote endpoint is not found. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Network virtual port for virtual network with internal id `%vpn%`, type `%type%`, internal tunnel id `%tunnel%` and IPMC index `%ipmc%` is not found.

Message Parameters

Name	Type
vpn	uInt32
type	uInt32
tunnel	uInt32
ipmc	uInt32

HAL.VXLAN.VNetTenantVLANNone

Description

An internal function was called for a virtual network that does not exists. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Virtual network with internal id `%vpnId%` does not have tenant vlan.

Message Parameters

Name	Type
vpnId	uInt32

HAL.VXLAN.BatchReadFail

Description

Fail to read batch from the slot. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

VXLAN batch read failed for slot `%slot%`, error `%message%`.

Message Parameters

Name	Type
slot	uInt32
message	String

HAL.VXLAN.VNetHwResrcReduc

Description

Hardware resource for the displayed object is impacted by resource reduction. This will result in incorrect programming of hardware tables and will impact forwarding.

Remedy

Check the run-time scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim the resource.

Severity

Error

Message Text

Virtual network hardware resource reduction causes virtual network with internal id `%vpnId%` to be invalid.

Message Parameters

Name	Type
vpnId	uInt32

HAL.VXLAN.VPortHwResrcReduc

Description

Hardware resource for the displayed object is impacted by resource reduction. This will result in incorrect programming of hardware tables and will impact forwarding.

Remedy

Check the run-time scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim the resource.

Severity

Error

Message Text

Virtual port hardware resource reduction causes virtual port `%vp%` to be invalid.

Message Parameters

Name	Type
vp	uInt32

HAL.VXLAN.CallFncForPrimOnly

Description

This is an internal error since the backup executes a function that is intended to be called on the primary. This will result in incorrect programming of hardware tables and internal data structure.

Remedy

This is a severe internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Function `%func%` should only be called on primary slot.

Message Parameters

Name	Type
func	String

HAL.VXLAN.InitSlotFail

Description

Problem initializing the slot. The system is not functioning as expected.

Remedy

Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Fail to initialize slot `%slot%`: `%format%`

Message Parameters

Name	Type
slot	Slot
format	Printf

HAL.VXLAN.VNetOperDown

Description

The displayed object is operationally down. This impacts forwarding.

Remedy

Check the run-time scalability limit and compare this with the current configurations. Reducing the system configuration may help bring up the object.

Severity

Warning

Message Text

Virtual network `%name%` (internal id `%vpnId%`) is operationally down.

Message Parameters

Name	Type
name	String
vpnId	uInt32

HAL.VXLAN.VNetOperUp

Description

The displayed object is recovered from the state of operationally down.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Virtual network `%name%` (internal id `%vpnId%`) is recovered and operationally up.

Message Parameters

Name	Type
name	String
vpnId	uInt32

HAL.VXLAN.DebugVerbose

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

HAL.VXLAN.VNIDNotFndBkup

Description

Fail to find a virtual network with a matching VNID on the backup slot. This may happen during scaled configuration due to timing.

Remedy

No action required. Eventually the backup will resolve this warning.

Severity

Warning

Message Text

Virtual network with VNID `%vnid%` is not found on the backup slot.

Message Parameters

Name	Type
vnid	uInt32

HAL.VXLAN.VNetHwRsrcNotFndBkup

Description

An internal function was called for a vfi that does not exists on the backup slot. This may happen during scaled configuration due to timing.

Remedy

No action required. Eventually the backup will resolve this warning.

Severity

Warning

Message Text

Cannot find a corresponding virtual network for hardware resource vfi `%vfi%` on the backup slot.

Message Parameters

Name	Type
vfi	uInt32

HAL.VXLAN.TunlOperDown

Description

The displayed object is operationally down. This impacts forwarding. HW resource limit may have been reached, see Release Notes.

Remedy

Check the run-time limitation and compare this with the current configurations. Changing the system configuration such as deleting other tunnel(s) may help bring up the object.

Severity

Warning

Message Text

Tunnel with remote endpoint `%dst%` and local endpoint `%src%` is operationally down for `%str%`.

Message Parameters

Name	Type
dst	IP
src	IP
str	String

HAL.VXLAN.TunlOperUp

Description

The displayed object is recovered from the state of operationally down.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Tunnel with remote endpoint `%dst%` and local endpoint `%src%` is operationally up.

Message Parameters

Name	Type
dst	IP
src	IP

HAL.VXLAN.TunlDown

Description

The displayed object is down. Check the show output.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Tunnel with remote endpoint `%dst%` and local endpoint `%src%` is down.

Message Parameters

Name	Type
dst	IP
src	IP

HAL.VXLAN.TunlPifNotFnd

Description

VLAN manager function returned an error for the tunnel port. This might happens due to timing.

Remedy

No action required. If this causes a problem, contact technical support with the following information: configuration, and the "show log" output.

Severity

Debug-Summary

Message Text

Tunnel with remote endpoint `%dst%` and local endpoint `%src%` port interface is not found.

Message Parameters

Name	Type
dst	IP
src	IP

HAL.VXLAN.TunlIdVNetAssocNotFnd

Description

An internal function was called for an association that does not exists. This is an internal error.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Warning

Message Text

Tunnel having internal id `%id%` is not associated with virtual network having internal id `%vnId%`.

Message Parameters

Name	Type
id	uInt32
vnId	uInt32

HAL.VXLAN.UnprocCkptMsgAtFailOvr

Description

This may be due to timing condition when there is a lot of configuration. This will impact forwarding of tenant traffic.

Remedy

Check the scalability limit and compare this with the current configurations by issuing commands such as: show virtual-networks, show virtual-network remote-endpoint vxlan, and show fdb. Reducing the system configuration may help.

Severity

Error

Message Text

There are `%num%` unprocessed checkpoint message(s) when failover starts.

Message Parameters

Name	Type
num	uInt32

HAL.VXLAN.L3IntfVIDInvld

Description

This event occurs when the VID of the L3 interface is needed to program the hardware and that VID is not valid. This may be due to timing condition and may impact forwarding of tenant traffic.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, "show log", "debug ems show trace hal pibvnetcfg", "debug ems show trace hal pibvnetadj", "debug ems show trace hal pibvxlancfg", "debug hal show platform vxlan tunnel", "debug hal show platform vnet nbr", and "debug hal show ipv4adj hw-info" output.

Severity

Warning

Message Text

The VLAN ID (`%vid%`) of the L3 interface (`%intf%`) is not valid.

Message Parameters

Name	Type
intf	uInt32
vid	uInt32

HAL.VXLAN.Error

Description

While programming the hardware, the specified error was encountered. This can result in incorrect programming of hardware tables and impact forwarding of tenant traffic.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim the resource.

Severity

Error

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

HAL.VXLAN.VLANNotFndBkup

Description

VLAN manager function returned an error for the vlan on the backup slot. This may happen due to timing.

Remedy

No action required. Eventually the backup will resolve this warning.

Severity

Warning

Message Text

VLAN with instance `%inst%` is not found on the backup slot.

Message Parameters

Name	Type
inst	uInt32

HAL.VXLAN.LifNotFndBkup

Description

VLAN manager function returned a NULL port interface for port instance on the backup slot. This may happen due to timing.

Remedy

No action required. Eventually the backup will resolve this warning.

Severity

Warning

Message Text

Port with internal instance `%instance%` not found on the backup slot.

Message Parameters

Name	Type
instance	uInt32

HAL.VXLAN.VPifNotFndBkup

Description

VLAN manager does not have this VPIF on the backup slot. This may happen due to timing.

Remedy

No action required. Eventually the backup will resolve this warning.

Severity

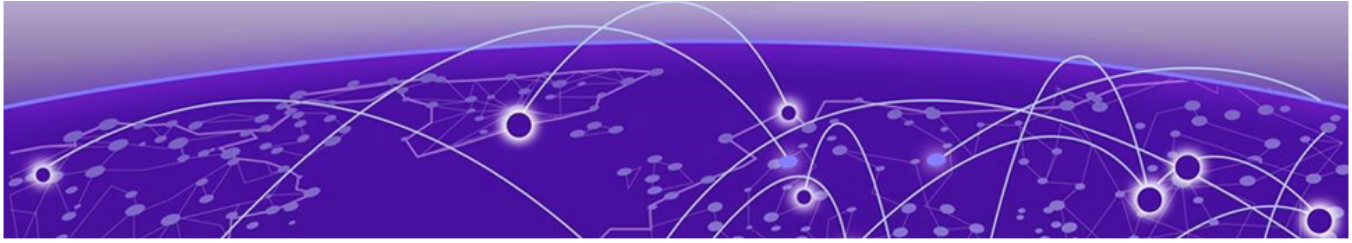
Warning

Message Text

VPif instance `%vpif%` or VLAN instance `%vlan%`, port instance `%port%`, VPif VID `%vid%` not found on the backup slot.

Message Parameters

Name	Type
vpif	uInt32
vlan	uInt32
port	uInt32
vid	uInt32



HAL.WRED Messages

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HAL.WRED.GetStatsFail

Description

Getting values associated with WRED related counters from H/W has failed. This may be due to the lack of WRED Statistics support on the Hardware.

Remedy

Unconfigure WRED. Repeat WRED configuration. If this error message is observed after reconfiguration, collect show tech output and contact technical support with suitable information.

Severity

Error

Message Text

WRED Statistics retrieval failed on port `%port%` with Error: `%errormsg%`

Message Parameters

Name	Type
port	String
errormsg	String

HAL.WRED.ClrStatsFail

Description

Clearing values associated with WRED related counters from H/W has failed. This may be due to the lack of WRED Statistics support on the Hardware or deficiency of software to reset the specific Hardware registers.

Remedy

Unconfigure WRED. Repeat WRED related configuration. If this error message is observed after reconfiguration, collect show tech output and contact technical support with suitable information.

Severity

Error

Message Text

Failed to clear WRED Statistics on port `%port%` with Error: `%errormsg%`

Message Parameters

Name	Type
port	String
errormsg	String

HAL.WRED.MemAllocParmFail

Description

This is an error message stating that System cannot allocate memory for WRED parameters cache table.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

Failed to calloc memory for WRED parameters

HAL.WRED.GetGenPortFail

Description

System failed to get generic port number for specified physical port. This may occur when incorrect physical port number is passed.

Remedy

Ensure that correct port number is passed. Unconfigure WRED. Reboot the switch. Repeat WRED configuration steps. If the problem persists after reboot, collect show tech output and contact technical support with suitable information.

Severity

Error

Message Text

Failed to get generic port for physical port `%port%` with Error: `%errormsg%`

Message Parameters

Name	Type
port	String
errormsg	String

HAL.WRED.GetGenPortModportFail

Description

Constructing the Egress Mod-Port Type generic port based on slot number and port number has failed. This may be caused when the system is not able to get generic port number for specified physical port.

Remedy

Ensure that correct port number is passed. Unconfigure WRED. Reboot the switch. Repeat WRED configuration steps. If the problem persists after reboot, collect show tech output and contact technical support with suitable information.

Severity

Error

Message Text

Failed to extract Modport type generic port for physical port `%port%` with Error: `%errormsg%`

Message Parameters

Name	Type
port	String
errormsg	String

HAL.WRED.GetEgrGenPortAchv

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Retrieved egress generic port number from underlying hardware for port `%port%`

Message Parameters

Name	Type
port	String

HAL.WRED.CfgStatsFail

Description

Configuration of WRED statistics on the Hardware has failed. This may be due to the lack of WRED Statistics support on the Hardware.

Remedy

Unconfigure WRED. Reboot the switch. Repeat WRED configuration steps. If the problem persists after reboot, collect show tech output and contact technical support with suitable information.

Severity

Error

Message Text

WRED Statistics configuration failed on port `%port%` with Error: `%errormsg%`

Message Parameters

Name	Type
port	String
errormsg	String

HAL.WRED.EnblStatsFail

Description

Enabling WRED statistics on the Hardware has failed. This may be due to the lack of WRED Statistics support on the Hardware.

Remedy

Unconfigure WRED. Reboot the switch. Repeat WRED configuration steps. If the problem persists after reboot, collect show tech output and contact technical support with suitable information.

Severity

Error

Message Text

Enabling WRED Stats failed on port `%port%` with Error: `%errormsg%`

Message Parameters

Name	Type
port	String
errormsg	String

HAL.WRED.SetStatsPortUnavail

Description

WRED statistics setup has failed because of unavailabliliyt of port. Port may not be in Ready state.

Remedy

Disable the port. Enable it again. Reboot the slot/switch if necessary. Unconfigure WRED. Repeat WRED configuration. If this error message is observed after reconfiguration, collect show tech output and contact technical support with suitable information.

Severity

Error

Message Text

Port %port% unavailable for WRED Statistics setup

Message Parameters

Name	Type
port	String

HAL.WRED.GetQueEstBufSizFail

Description

The configured Buffer Pool Size for the Port's Queue from H/W is read to calculate the buffer size that would be used. This error message states that retrieval of buffer parameters for port range instance has failed. This may occur when incorrect unit number is passed.

Remedy

Appropriate value of unit number should be passed in order to retrieve queue's buffer parameters. Collect show tech output and contact technical support with suitable information.

Severity

Error

Message Text

%funct%: Failed to get queue's buffer parameters for port %port% with retCode %retCode%

Message Parameters

Name	Type
funct	String
port	String
retCode	uInt32

HAL.WRED.GetBufPortInv

Description

This system error occurs when we try to extract the total buffer space, dedicated space, and dynamic pool size from an invalid port number on a specific slot.

Remedy

Appropriate value of port number should be passed in order to retrieve total buffer space. Collect data from 'show tech' command and contact technical support with suitable information.

Severity

Error

Message Text

`%funct%`: Failed to extract buffer space due to Invalid port number

Message Parameters

Name	Type
funct	String

HAL.WRED.GetBufCfgPortInv

Description

This situation occurs when we try to extract the buffer pool configuration from an invalid port number on a specific slot.

Remedy

Appropriate value of port number should be passed in order to retrieve buffer pool configuration. Collect data from 'show tech' command and contact technical support with suitable information.

Severity

Error

Message Text

`%funct%`: Failed to extract buffer pool configuration due to invalid port number `%port%`

Message Parameters

Name	Type
funct	String
port	String

HAL.WRED.CfgFail

Description

This situation occurs when WRED parameters are not configured on the underlying Hardware. SDK API calls returns this error when WRED Discard values are not programmed on Hardware.

Remedy

Unconfigure WRED. Repeat WRED configuration steps. Reboot the switch. If problem persists after reboot, collect data from 'show tech' command and contact technical support with suitable information.

Severity

Error

Message Text

Failed to configure WRED parameters on the underlying Hardware on port `%port%` qosprofile `%qos%` with Error: `%errormsg%`

Message Parameters

Name	Type
port	String
qos	uInt32
errormsg	String

HAL.WRED.ClrStatsInv

Description

This indicates that WRED counters/statistics are not cleared on specified slot.

Remedy

Repeat clearing the WRED statistics. Unconfigure WRED parameters. Reboot the switch. Repeat WRED configuration steps. If problem persists after reboot, collect data from 'show tech' command and contact technical support with suitable information.

Severity

Warning

Message Text

Unable to clear WRED statistics on slot `%slot%`

Message Parameters

Name	Type
slot	uInt32

HAL.WRED.SetupStatsStrt

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

WRED Statistics setup started on port `%port%`

Message Parameters

Name	Type
port	String

HAL.WRED.SetupStatsDone

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

WRED Statistics setup finished on port `%port%`

Message Parameters

Name	Type
port	String

HAL.WRED.GetCntrs

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Start getting central statistics profile WRED related counters from H/W on port `%port%`

Message Parameters

Name	Type
port	String

HAL.WRED.ClrCntrs

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Clearing WRED Counters on port `%port%`

Message Parameters

Name	Type
port	String

HAL.WRED.GetCustmPortStats

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or

completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Custom port stats get returned for slot `%slot%` port `%port%`

Message Parameters

Name	Type
slot	uInt32
port	uInt32

HAL.WRED.CfgStrt

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

WRED Configuration Started on port `%port%` QosNum `%qosnum%` ValidFlag `%flag%`

Message Parameters

Name	Type
port	String
qosnum	uInt32
flag	uInt32

HAL.WRED.Unsuprt

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

WRED feature not supported on this platform: slot `%slot%`

Message Parameters

Name	Type
slot	uInt32

HAL.WRED.IgnUnitInv

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

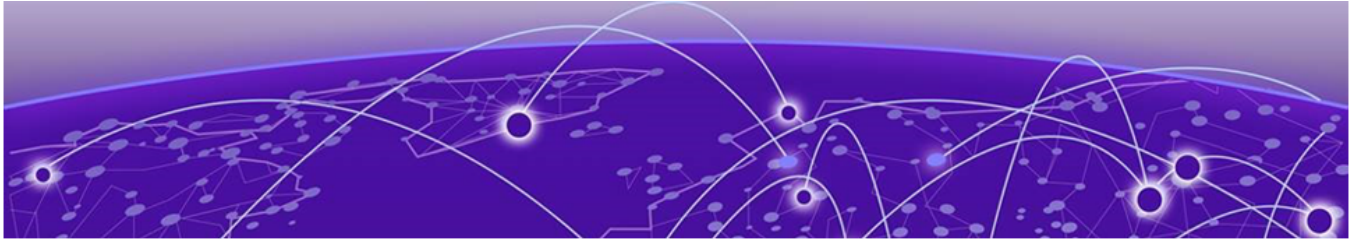
Debug-Summary

Message Text

Ignoring unattached unit for WRED on port `%port%: %errormsg%`

Message Parameters

Name	Type
port	String
errormsg	String



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IdMgr.RecvACLClbk

Description

This message logs all call backs received from the ACL Manager.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

idMgrACLCallBack() returned \"%rcString%\" [%rc%] for command %cmd%, context %context%

Message Parameters

Name	Type
cmd	xInt
rc	sInt
rcString	String
context	Ptr

IdMgr.RecvLLDPTrig

Description

This message logs all triggers received from LLDP.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Received LLDP trigger %triggerName% for %mac%/%port%, capabilities %cap%

Message Parameters

Name	Type
triggerName	String
mac	MAC
port	SlotPort
cap	xInt32

IdMgr.RecvNetLoginTrig

Description

This message logs all triggers received from NetLogin.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Received NetLogin trigger `%triggerName%` for `%user%`/`%mac%`/`%port%`/[`%vlSize%`] `%vl1%`;`%vl2%`;`%vl3%`;`%vl4%`, authMethod `%authMethod%`

Message Parameters

Name	Type
triggerName	String
user	String
mac	MAC
port	SlotPort
vlSize	uInt32
vl1	uInt32
vl2	uInt32
vl3	uInt32
vl4	uInt32
authMethod	sInt

IdMgr.RecvFDBTrig

Description

This message logs all triggers received from FDB Manager.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Received FDB trigger `%triggerName%` for `%port%`/`%vlanInstance%`/`%mac%` --> `%ipAddress%`

Message Parameters

Name	Type
triggerName	String
mac	MAC
port	SlotPort
vlanInstance	uInt32
ipAddress	IP

IdMgr.RecvIPSecTrig

Description

This message logs all triggers received from IP-Security

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Received FDB trigger `%triggerName%` for `%port%`/`%vlanInstance%`/`%mac%` --> `%ipAddress%`

Message Parameters

Name	Type
triggerName	String
mac	MAC
port	SlotPort
vlanInstance	uInt32
ipAddress	IP

IdMgr.RecvClntCtrl

Description

Logged when we receive a connection control call back.

Remedy

This is a debug only message, and does not indicate any problem. This message should only be enabled when requested by engineering.

Severity

Debug-Verbose

Message Text

LibConnCtrl(`%cookie%`, `%code%`, `%data%`, `%len%`), peer `%peer%`

Message Parameters

Name	Type
cookie	Ptr
code	sInt
data	Ptr
len	sInt
peer	uInt32

IdMgr.RecvClntData

Description

Logged when we receive the IPML receive data call back.

Remedy

This is a debug only message, and does not indicate any problem. This message should only be enabled when requested by engineering.

Severity

Debug-Verbose

Message Text

LibReceive(`%arg%`, `%service%`, `%peer%`, `%pkt%`, `%bytes%`)

Message Parameters

Name	Type
arg	Ptr
service	Ptr
peer	uInt32
pkt	Ptr
bytes	sInt

IdMgr.RecvClntMsg

Description

Logged when a message is received from the IdMgr client library

Remedy

This is a debug only message, and does not indicate any problem. This message should only be enabled when requested by engineering.

Severity

Debug-Verbose

Message Text

Received message `%msgtype%` from `%proc%`, peerId `%peer%`

Message Parameters

Name	Type
peer	uInt32
proc	String
msgtype	uInt32

IdMgr.DscvrId

Description

Logged when a new identity is discovered on a port

Remedy

This is an informational only message, and requires no action

Severity

Info

Message Text

Identity \"`%identity%`\" with MAC `%mac%`, auth method `%authMethod%`, discovered on port `%port%`

Message Parameters

Name	Type
identity	String
mac	MAC
authMethod	String
port	SlotPort

IdMgr.UndscvrId

Description

Logged when an identity is undiscovered on a port

Remedy

This is an informational only message, and requires no action

Severity

Info

Message Text

Identity \"`%identity%`\" with MAC `%mac%`, auth method `%authMethod%`, undiscovered on port `%port%`

Message Parameters

Name	Type
identity	String
mac	MAC
authMethod	String
port	SlotPort

IdMgr.PurgIdEnt

Description

Logged when Identity database entries are purged.

Remedy

This message is generated when all entries in identity database are purged by admin. The purging of entries from identity database is done for debug purposes only, and can be done only by using internal engineering command by Extreme Networks Engineering.

Severity

Info

Message Text

Identity database entries purged

IdMgr.HighMemUsageRch

Description

Logged when the size of Identity database reaches to high memory usage level. Before adding any new information in identity management, check for memory availablity is performed. If 80% or more of the maximum allocated memory is already used and

new information is to be added to the database, this EMS is generated. This can be a temporary condition as memory is released by deleting stale database entries periodically.

Remedy

This message is for informational purpose, and does not indicate any problem. However, admin may want to check the configured memory size for identity database and increase the memory size, if required

Severity

Info

Message Text

Current memory usage `%memUsed%` Kbytes, `%percMem%` percent of `%maxMem%` Kbytes

Message Parameters

Name	Type
memUsed	sInt
percMem	sInt
maxMem	sInt

IdMgr.MaxMemUsageRch

Description

Logged when the size of Identity database reaches to maximum size configured

Remedy

This message is for reporting error purpose, and indicates that no more new identities may be recorded. Admin needs to check the reason behind so many identities getting logged on to the switch. Also, admin needs to check the configured identity manager database size and stale entry aging interval, and if required make the necessary adjustments to one or more of these parameters

Severity

Error

Message Text

Current memory usage %memUsed% Kbytes, %percMem% percent of %maxMem% Kbytes. No new information shall be added to the database.

Message Parameters

Name	Type
memUsed	sInt
percMem	sInt
maxMem	sInt

IdMgr.AddIPv4Addr

Description

This message logs the ip address used by the identity

Remedy

This message is for informational purposes only and requires no action

Severity

Info

Message Text

Identity \"%identity%\" with MAC %mac%, on port %port%, vlan %vlanName% got IP %ipAddress%

Message Parameters

Name	Type
identity	String
mac	MAC
port	SlotPort
vlanName	String
ipAddress	IP

IdMgr.DelIPv4Addr

Description

This message logs the ip address binding freed, which was used by the identity

Remedy

This message is for informational purposes only and requires no action

Severity

Info

Message Text

Identity \"`%identity%`\" with MAC `%mac%`, on port `%port%`, vlan `%vlanName%` released IP `%ipAddress%`

Message Parameters

Name	Type
identity	String
mac	MAC
port	SlotPort
vlanName	String
ipAddress	IP

IdMgr.AuthIdFail

Description

Logged when a user fails authentication

Remedy

This is an informational only message, and requires no action

Severity

Info

Message Text

Identity \"%identity%\" with MAC %mac%, auth method %authMethod%, failed authentication on port %port%

Message Parameters

Name	Type
identity	String
mac	MAC
authMethod	String
port	SlotPort

IdMgr.CritMemUsageRch

Description

Logged when the size of Identity database reaches near to max size configured. Before adding any new information in identity management, check for memory availablity is performed. If 90% of the maximum allocated memory is already used and new information is to be added to the database, this EMS is genearted. This can be an indicator of error condition as too many identities have been discovered on the device

Remedy

This message is for error notifcation purpose, and indicates that too many users/device have been detected on the device. Admin may want to check the reason for the discovery of so many identites on the device. Also, admin may want to check the configured memory size for identity database and increase the memory size, if required

Severity

Error

Message Text

Current memory usage %memUsed% Kbytes, %percMem% percent of %maxMem% Kbytes. No new Identities shall be added to the database.

Message Parameters

Name	Type
memUsed	sInt
percMem	sInt
maxMem	sInt

IdMgr.NrmlMemUsageRch

Description

Logged when the size of Identity database reaches to normal memory usage limits.

Remedy

This message is for informational purpose, and does not indicate any problem.

Severity

Info

Message Text

Current memory usage `%memUsed%` Kbytes, `%percMem%` percent of `%maxMem%` Kbytes

Message Parameters

Name	Type
memUsed	sInt
percMem	sInt
maxMem	sInt

IdMgr.ChgAgeOutTime

Description

Logged when the database memory usage level changes. The memory usage change requires adjusting stale entry aging time

Remedy

This message is for informational purpose, and does not indicate any problem. However, admin may want to check if any external application(s) need to adjust its behavior based on adjusted values of clean-up interval and stale entry aging time

Severity

Info

Message Text

Based on new memory usage level stale entry aging time set to `%agingTime%`

Message Parameters

Name	Type
agingTime	uInt

IdMgr.RecvKerberosTrig

Description

This message logs all triggers received from the Kerberos Snooping module.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Kerberos `%triggerName%` trigger for `%user%`@`%realm%`/`%mac%`/`%port%`/`%vlan%`, IP `%ipAddress%`, NB host \"`%netbios%`\"

Message Parameters

Name	Type
triggerName	String
user	String
realm	String
mac	MAC
port	SlotPort
vlan	uInt32

Name	Type
netbios	String
ipAddress	IP

IdMgr.RecvKerberosEvent

Description

This message events send to the Kerberos Snooping thread

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Kerberos thread received event `%event%`

Message Parameters

Name	Type
event	sInt8

IdMgr.OpenRxSockFail

Description

This message gets generated when the Kerberos Snooping Module, which is part of Identity Manager, is not able to open its receive socket.

Remedy

For some reason the required socket could not be opened. Restart the idMgr process to see if this resolves the issue. If not, please contact Extreme Networks Technical Support.

Severity

Error

Message Text

Error opening receive socket required for Kerberos Snooping : %reason%

Message Parameters

Name	Type
reason	String

IdMgr.AddLLDPInfo

Description

Logged when a LLDP device information gets correlated with a Netlogin based identity. The correlation logic maps LLDP identity to the appropriate Netlogin authenticated identity and add LLDP capability information to Netlogin based idenity.

Remedy

This is an informational only message, and requires no action

Severity

Info

Message Text

Identity \"%identity%\" with MAC %mac%, auth method %authMethod% discovered on port %port% got LLDP capability \"%capability%\" added

Message Parameters

Name	Type
identity	String
mac	MAC
authMethod	String
port	SlotPort
capability	String

IdMgr.DelLLDPInfo

Description

Logged when a LLDP device which was correlated with a Netlogin based identity gets disconnected. Upon disconnection, the LLDP capability information is removed from the Netlogin based identity.

Remedy

This is an informational only message, and requires no action

Severity

Info

Message Text

Identity \"`%identity%`\" with MAC `%mac%`, auth method `%authMethod%` discovered on port `%port%` got LLDP capability information deleted

Message Parameters

Name	Type
identity	String
mac	MAC
authMethod	String
port	SlotPort

IdMgr.AddKerberosInfo

Description

Logged when a kerberos snooped identity information gets correlated with a Netlogin based identity

Remedy

This is an informational only message, and requires no action

Severity

Info

Message Text

Identity \"%identity%\" with MAC %mac%, auth method %authMethod% discovered on port %port% got kerberos snooped identity information added

Message Parameters

Name	Type
identity	String
mac	MAC
authMethod	String
port	SlotPort

IdMgr.DelKerberosInfo

Description

Logged when a kerberos snooped identity which was correlated with a Netlogin based identity logs out

Remedy

This is an informational only message, and requires no action

Severity

Info

Message Text

Identity \"%identity%\" with MAC %mac%, auth method %authMethod% discovered on port %port% got kerberos snooped identity information deleted

Message Parameters

Name	Type
identity	String
mac	MAC
authMethod	String
port	SlotPort

IdMgr.ReauthId

Description

Logged when a user gets reauthenticated successfully.

Remedy

This is an informational only message, and requires no action

Severity

Info

Message Text

Identity \"`%identity%`\" with MAC `%mac%`, auth method `%authMethod%`, reauthenticated on port `%port%`

Message Parameters

Name	Type
identity	String
mac	MAC
authMethod	String
port	SlotPort

IdMgr.ReauthIdFail

Description

Logged when the reauthentication fails for a user which is currently logged in

Remedy

This is an informational only message, and requires no action

Severity

Info

Message Text

Identity \"%identity%\" with MAC %mac%, auth method %authMethod%, failed reauthentication on port %port%

Message Parameters

Name	Type
identity	String
mac	MAC
authMethod	String
port	SlotPort

IdMgr.EvtObjAddFail

Description

This message logs failure while creating event notification.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Event data object \"%object%\" creation failed. Error code: %code%, %errorMsg%

Message Parameters

Name	Type
object	String
code	uInt32
errorMsg	String

IdMgr.EvtInfoAddFail

Description

This message logs failure while adding information of field in event object.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Event data field \"`%fieldName%`\" addition failed. Error code: `%code%`, `%errorMsg%`

Message Parameters

Name	Type
fieldName	String
code	uInt32
errorMsg	String

IdMgr.EvtNotifyFail

Description

This message logs failure while triggering event notification

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Error: `%errorMsg%`

Message Parameters

Name	Type
errorMsg	String

IdMgr.EvtSendFail

Description

This message logs failure while event notification send is failed

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Could not send event data. Error code: `%code%`, `%errorMsg%`

Message Parameters

Name	Type
code	uInt32
errorMsg	String

IdMgr.EvtHandleError

Description

This message logs failure while event notification handle creation is failed

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Failed to create handle for event notificaiton. Error code: `%code%`, `%errorMsg%`

Message Parameters

Name	Type
code	uInt32
errorMsg	String

IdMgr.RecvDOSTrig

Description

This message logs all triggers received from the CPU DoS protect module

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Engineering.

Severity

Debug-Verbose

Message Text

Received CPU-DoS trigger `%triggerName%` for `%port%`, `%sip%`, `%dip%`, `%protocol%`

Message Parameters

Name	Type
triggerName	String
port	SlotPort
sip	srcIP
dip	dstIP
protocol	uInt16

IdMgr.AssocIdToRole

Description

This message logs when an identity is associated to a role.

Remedy

No action required - Information message only.

Severity

Info

Message Text

The identity \"`%identityName%`\" detected on port `%port%` with MAC `%mac%` and IP `%ipAddress%` has been associated to role \"`%roleName%`\"

Message Parameters

Name	Type
identityName	String
roleName	String
port	SlotPort
mac	MAC
ipAddress	IP

IdMgr.DisassocIdFmRole

Description

This message logs when an identity is dissociated from its role.

Remedy

No action required - Information message only.

Severity

Info

Message Text

The identity \"`%identityName%`\" detected on port `%port%` with MAC `%mac%` and IP `%ipAddress%` has been dissociated from role \"`%roleName%`\"

Message Parameters

Name	Type
identityName	String
roleName	String
port	SlotPort
mac	MAC
ipAddress	IP

IdMgr.ApplyPlcyVerbose

Description

This message logs detailed information while applying or removing dynamic rules to an identity with source address information.

Remedy

No action required - Information message only.

Severity

Debug-Verbose

Message Text

`%configure%` \"`%ruleName%`\" for source `%src%` on port `%port%`

Message Parameters

Name	Type
configure	String
ruleName	String
src	String
port	SlotPort

IdMgr.CnctLDAPSrvrFail

Description

LDAP client could not successfully connect to the LDAP server.

Remedy

Check if the LDAP server is up and running. Verify that the LDAP configuration on the switch matches with the LDAP server configuration. Check the connectivity to the LDAP server.

Severity

Error

Message Text

Connect to LDAP server `%serverIP%` failed

Message Parameters

Name	Type
serverIP	String

IdMgr.BndUserLDAPSrvrFail

Description

LDAP bind failed while trying to bind to LDAP server using the configured bind username and password.

Remedy

Check the LDAP bind username and password configuration. Ensure that the user exists on the LDAP server.

Severity

Error

Message Text

Bind for user \"`%bindUser%`\" to LDAP server `%serverIP%` failed

Message Parameters

Name	Type
bindUser	String
serverIP	IP

IdMgr.SrchUserLDAPSrvrFail

Description

LDAP search failed for the username in the configured LDAP server(s). Either the user was not found in the LDAP server directory or the LDAP connection to the server(s) could not be established.

Remedy

Check the LDAP configuration on the switch. Confirm the reachability of the LDAP server(s) from the switch. Also ensure that the user information is configured in the LDAP server(s).

Severity

Error

Message Text

LDAP Search failed for \"`%searchStr%`\" at base=\"`%searchBase%`\"

Message Parameters

Name	Type
searchStr	String
searchBase	String

IdMgr.CnctLDAPSrvrOK

Description

LDAP client successfully connected to the LDAP server.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Connect to LDAP server `%serverIP%` got success

Message Parameters

Name	Type
serverIP	String

IdMgr.BndUserLDAPSrvrOK

Description

LDAP client successfully bound to LDAP server using the configured bind username and password.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Bind for user \"`%bindUser%`\" to LDAP server `%serverIP%` got success

Message Parameters

Name	Type
bindUser	String
serverIP	IP

IdMgr.SrchUserLDAPSrvrOK

Description

LDAP search operation succeeded for the user.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Search for \"%searchStr%\" at base=\"%searchBase%\" in LDAP server %serverIP% got success

Message Parameters

Name	Type
searchStr	String
searchBase	String
serverIP	IP

IdMgr.MoveIdMACMoveDtect

Description

The Identity has moved from one port to other port because a MAC Move was detected. The Identity can be detected by one of the following methods, 1) FDB 2) Netlogin 3) LLDP 4) IPARP 5) Kerberos 6) IP-Security

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Moved the identity \"%identity%\", detected by %authMethod%, from %prevPort% to %newPort% because a move of the MAC address %mac% was detected.

Message Parameters

Name	Type
identity	String
mac	MAC
prevPort	SlotPort
newPort	SlotPort
authMethod	String

IdMgr.AddPlcyToRoleFail

Description

The policy is either syntactically incorrect or already contains a source address type that is configured to be dynamically inserted by Identity Manager. Hence this policy cannot be used with Identity Manager. "Invalid policy specified" means that the policy file is either syntactically incorrect or non-existent. "The policy already contains a source MAC address" or "The policy already contains a source IP address" means that the policy should not contain the source address of the type that is configured to be inserted by identity manager dynamically while installing ACLs for identities.

Remedy

Correct the syntax errors (if any) and also remove statically configured source address (if any) from the policy and then try adding the policy to Identity Manager.

Severity

Error

Message Text

Add `%policyType%` `%policyName%` to role `%roleName%` failed. `%errMsg%`.

Message Parameters

Name	Type
policyType	String
policyName	String
roleName	String
errMsg	String

IdMgr.SrcAddrTypeChgFail

Description

All the policies listed here already contain a source address type that is configured to be dynamically inserted by Identity Manager. Hence these policies cannot be used with Identity Manager. Note: The message will be either "List of policies:" or "List of the first 50 policies:" depending on the number of policies that have a problem.

Remedy

Remove the statically configured source address from the policy and then try adding the policy to Identity Manager. After this the access list source address type can be changed as desired.

Severity

Error

Message Text

`%count%` `%polType%` already contain a `%attrName%`. `%prefix%` `%policyList%`

Message Parameters

Name	Type
count	uInt32
polType	String
attrName	String
maxNumPol	uInt32
prefix	String
policyList	String

IdMgr.MoveIdFmEnblToDsblPort

Description

The Identity is moved from IDMgmt enabled port to IDMgmt disabled port, because a MAC move was detected. This Identity will not be detected by the switch in the new port as the Identity management is disabled in this port. The identity will be cleared on receiving the undetect event from the corresponding detection method. For e.g.: The LLDP identity will be cleared on receiving LLDP undetect event for this identity. Kerberos identities will be cleared immediately if the Aging timer is not configured else it will be cleared after Aging timer is expired for this Kerberos identity.

Remedy

To continue managing this identity, enable Identity Management on the port on which this identity is connected using the "configure identity-management add ports [<port_list>|all]" command.

Severity

Warning

Message Text

Moved the identity \"%identity%\" with MAC address %mac%, detected by %authMethod%, from Identity management enabled port %prevPort% to disabled port %newPort%.

Message Parameters

Name	Type
identity	String
mac	MAC
prevPort	SlotPort
newPort	SlotPort
authMethod	String

IdMgr.FDBAgeOutForId

Description

The FDB entry for this identity has aged out. For Kerberos authenticated Identities if the Aging timer is configured it will be started else the identities willbe deleted immediately. The undetect event will be triggered for the identities detected using other detection methods as specified below. The Identity can be detected by one of the following methods, 1) FDB 2) Netlogin 3) LLDP 4) IPARP 5) Kerberos 6) IP-Security

Remedy

No action required - Informational message only.

Severity

Info

Message Text

FDB Aged out for Identity \"%identity%\" with MAC %mac%, detected by %authMethod%.

Message Parameters

Name	Type
identity	String
mac	MAC
authMethod	String

IdMgr.RxPktBuf

Description

This is a packet received by Identity Manager.

Remedy

No action required - Information message only.

Severity

Debug-Data

Message Text

Dump of received packet buffer:\n`%buffer%`

Message Parameters

Name	Type
buffer	Buf-ptr
length	Buf-len

IdMgr.CauseEntRedun

Description

A new entry is being added to the blacklist/whitelist that renders an existing list entry superfluous. This condition can happen when the entry that is being added has a wider match criteria than the existing entry as the set of identities that can match the existing entry is a subset of the set of identities that can match the newly added entry. For example adding an entry with IP address 10.10.10.0/24 to the blacklist followed by adding a second entry with IP address 10.10.0.0/16 renders the 10.10.10.0/24 entry redundant.

Remedy

White this is not an error condition, it can result in inefficient use of system resources like ACLs, memory and CPU cycles. It is recommended that the user delete the entry that has the narrower match criteria to free up unnecessary resources that are consumed by the redundant entry.

Severity

Notice

Message Text

Adding `%entry2%` to list results in `%entry1%` becoming redundant

Message Parameters

Name	Type
entry1	String
entry2	String

IdMgr.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on Identity Manager configuration. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Argument `%arg%` is NULL

Message Parameters

Name	Type
arg	String

IdMgr.ParmInv

Description

An internal function was called with an invalid value. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on Identity Manager configuration. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Argument `%arg%` has an invalid value `%val%`

Message Parameters

Name	Type
arg	String
val	uInt32

IdMgr.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect operation of the Identity Management feature.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Memory allocation failed when trying to allocate a %obj% structure of size %size%.

Message Parameters

Name	Type
obj	String
size	uInt32

IdMgr.DelStrucFldNotNull

Description

Delete of the displayed container structure instance failed as the displayed field was not empty. This is an internal error and can indicate either a memory corruption or a software bug that can cause a memory leak.

Remedy

If this condition persists provide technical support information on Identity management configuration and details of the error message. Also, check the scalability limit and compare this with the current configuration.

Severity

Error

Message Text

Failed to delete %cont% with non-empty field %field%

Message Parameters

Name	Type
cont	String
field	String

IdMgr.AllocIndxFail

Description

Index alloaction for the displayed list entry failed. This can indicate either a leak in index allocation or a software bug that can cause blacklist and whitelist feature in Identity management to not work as intended.

Remedy

If this condition persists provide technical support information on Identity management configuration and details of the error message. Also, check the scalability limit and compare this with the current configuration.

Severity

Error

Message Text

Index allocation for `%entry%` failed

Message Parameters

Name	Type
entry	String

IdMgr.DelVldFDBIdAgeOutList

Description

Identity management creates an identity for the FDB entry learned on the ports where identity management is enabled. When the FDB entries are cleared the identity manager will place the FDB identity in a temporary list. The identity manager will clear this temporary list (containing aged out FDB identities) once in 60 seconds. This EMS event denotes that a valid FDB identity was removed after it was added to the FDB age-out list.

Remedy

If this condition persists review the output of the "show fdb ports <port_list>" and "show identity-management entries ports <port_list>" commands. (The portlist should include the identity-management-enabled port specified in the EMS event). Also, check the scalability limit and compare this with the current configuration.

Severity

Error

Message Text

The valid FDB identity `%user%` with MAC `%mac%` port `%port%` is being removed because it is on the FDB age-out list.

Message Parameters

Name	Type
user	String
mac	MAC
port	SlotPort

IdMgr.GreyListUserDtect

Description

This event is generated when a user configured in Greylist, logs in using one of the following authentication method. 1. netloginDot1x 2. netloginMac 3. netloginWeb 4. kerberos User indicates username that is configured in Greylist.

Remedy

No action required - Information message only.

Severity

Info

Message Text

A grey-listed user \"`%user%`\" with MAC `%mac%` is detected by authentication method `%authMethod%` on port `%port%`

Message Parameters

Name	Type
user	String
mac	MAC
authMethod	String
port	SlotPort

IdMgr.PriorityHeirarchyFail

Description

All the child roles listed here have lesser priority (higher priority value) than their parent role. Due to which Match Criteria Inheritance could not be enabled.

Remedy

Change the priority of the child roles higher than their parent role. (lesser priority value)

Severity

Error

Message Text

List of Parent-Child not following Priority Hierarchy: `%roleList%`

Message Parameters

Name	Type
roleList	String

IdMgr.SendLDAPGrpQuery

Description

This event occurs when LDAP query is sent to search for user's group information. This LDAP query is sent when a user is detected by Identity Manager.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Sent LDAP query to search user's group for \"`%userName%`\" at base=\"`%searchBase%`\" with filter=\"`%searchFilter%`\".

Message Parameters

Name	Type
userName	String
searchBase	String
searchFilter	String

IdMgr.SrchUserGrpLDAPSrvrOK

Description

LDAP search operation to get user's group information was successful.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Search for user's group for \"`%userName%`\" at base=\"`%searchBase%`\" in LDAP server `%serverIP%` was successful.

Message Parameters

Name	Type
userName	String
searchBase	String
serverIP	IP

IdMgr.SrchUserGrpLDAPSrvrFail

Description

LDAP search for user's group failed for the username in the configured LDAP server(s). Either the user was not found in the LDAP server directory or the LDAP connection to the server(s) could not be established.

Remedy

Check the LDAP configuration on the switch. Confirm the reachability of the LDAP server(s) from the switch. Also ensure that the user information is configured in the LDAP server(s). Following CLI commands can be used to configure and verify LDAP settings. 1. configure {identity-management} ldap {domain <domain_name>} add server 2. configure {identity-management} ldap {domain [<domain_name>|all]} bind-user 3. configure {identity-management} ldap {domain [<domain_name>|all]} base-dn 4. configure {identity-management} ldap {domain [<domain_name>|all]} [enable|disable] netlogin 5. show ldap domain

Severity

Error

Message Text

LDAP Search for user's group failed for \"`%userName%`\" at base=\"`%searchBase%`\".

Message Parameters

Name	Type
userName	String
searchBase	String

IdMgr.DecryptMaxStrSizExcd

Description

An invalid encrypted input string is received. Unable to decrypt the received encrypted input string as it is not in the EXOS encrypted string format resulting decrypting string exceeds maximum size.

Remedy

Retry configuration with expected encrypted string format. Encrypted string should be one of the following format " configure identity-management ldap bind-user <user-name> encrypted "#<char1>#<char2>.....#<char32>" or " configure identity-management ldap bind-user <user-name> encrypted "<char1><char2>.....<char32>".

Severity

Warning

Message Text

Unable to decrypt the encrypted string. The decrypted string size exceeded the maximum of `%size%`.

Message Parameters

Name	Type
size	uInt

IdMgr.RoleBasedVLANTrace

Description

This event is for debugging problems related to IdMgr Role based VLAN . This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems related to Dynamic VLAN bind.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

IdMgr.AssocIdToRoleVLAN

Description

This event occurs when an identity is associated to a role VLAN Tag.

Remedy

No action required - Information message only.

Severity

Info

Message Text

The identity \"%IdentityName%\" detected on port %port% with MAC %mac% has been associated to role \"%roleName%\" VLAN Tag %tag%

Message Parameters

Name	Type
IdentityName	String
port	SlotPort
mac	MAC
roleName	String
tag	uInt32

IdMgr.IdRoleVRMisMatch

Description

If a Identity's role has a VR onfigured for dynamic VLAN creation, the VR should be the same as the VR to which the port (on which the Identity is detected) belongs to. If the port does not belong to any VR and if VLAN with the dynamic VLAN tag configured for the Identity's role already exists, the configured VR should match the VR to which the dynamic VLAN belongs to. Hence the identity will not be dynamically associated to any VLAN.

Remedy

Misconfiguration needs to be corrected. Use "configure identity-management role <role_name> vr <vr_name>" command to correct the misconfiguration.

Severity

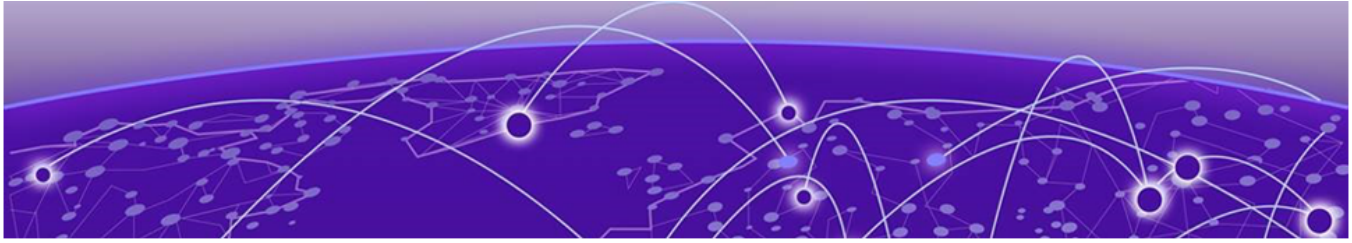
Error

Message Text

VR %roleVrCfg% configured for role %roleName% for identity %IdentityName% with mac %mac% is not same as VR %vrPortVLAN% of the Identity's port or existing dynamic VLAN

Message Parameters

Name	Type
IdentityName	String
roleName	String
roleVrCfg	String
vrPortVLAN	String
mac	MAC



IPFIX Messages

IPFIX.CreatSockFail on page 2503
IPFIX.BindSrcAddrFail on page 2503
IPFIX.CnctFail on page 2504
IPFIX.ExportFail on page 2504
IPFIX.DebugVerbose on page 2505
IPFIX.BindVRFFail on page 2505

IPFIX.CreatSockFail

Description

Internal error.

Remedy

Contact tech support.

Severity

Error

Message Text

Failed to open socket to Collector

IPFIX.BindSrcAddrFail

Description

Could not bind the Source IP address.

Remedy

Please check if the corresponding VR exists. If it does please contact tech support.

Severity

Error

Message Text

Not able to bind Source IP Address `%ip1%` to VR `%vr1%`.

Message Parameters

Name	Type
ip1	IPN
vr1	VRID

IPFIX.CnctFail

Description

Could not connect to the Collector. Will retry on next export.

Remedy

Verify the Collector is operational and reachable from the switch.

Severity

Info

Message Text

Could not connect to Collector `%ip1%`

Message Parameters

Name	Type
ip1	String

IPFIX.ExportFail

Description

The application was unable to forward the flow record to the collector.

Remedy

The exact remedy, if any, is dependant on the particular situation.

Severity

Info

Message Text

Export failed (`%format%`)

Message Parameters

Name	Type
format	Printf

IPFIX.DebugVerbose

Description

To help Engineering debug what is happening

Remedy

Not Applicable.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

IPFIX.BindVRFFail

Description

Internal error.

Remedy

This is a rare internal condition needing technical assistance. Please contact tech support.

Severity

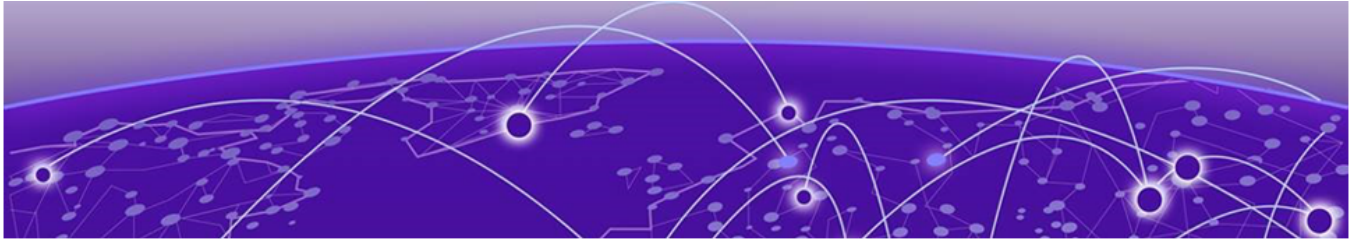
Error

Message Text

Could not bind specified socket `%sockid%` to VRF `%vrf%`.

Message Parameters

Name	Type
sockid	sInt
vrf	String



IPFIX.FlowRcrd Messages

IPFIX.FlowRcrd.RecvErr on page 2507
IPFIX.FlowRcrd.IPv4 on page 2508
IPFIX.FlowRcrd.IPv6 on page 2508
IPFIX.FlowRcrd.NonIP on page 2509
IPFIX.FlowRcrd.General on page 2510

IPFIX.FlowRcrd.RecvErr

Description

While processing the flow record there was an error.

Remedy

This message is due to internal error. Please contact tech support.

Severity

Warning

Message Text

The received flow record on Port `%slot%:%port%` did not pass a sanity test.

Message Parameters

Name	Type
slot	Slot
port	Port

IPFIX.FlowRcrd.IPv4

Description

Received a new IPv4 flow record from the port.

Remedy

This is an informational message only.

Severity

Info

Message Text

Rcvd IPv4 Flow Record port `%slot%:%port%` with srcIP `%sip%:%sport%` dstIp `%dip%:%dport%` protocol `%prot%` tos `%tos%`

Message Parameters

Name	Type
slot	Slot
port	Port
sip	srcIP
sport	L4port
dip	dstIP
dport	L4port
prot	uInt16
tos	uInt16

IPFIX.FlowRcrd.IPv6

Description

Received a new IPv6 flow record from the port.

Remedy

This is an informational message only.

Severity

Info

Message Text

Rcvd IPv6 Flow Record port `%slot%:%port%` with srcIP `%sip%` nxthdr `%snxthdr%` dstIp `%dip%` nxthdr `%dnxthdr%` protocol `%prot%` class `%class%` label `%label%`

Message Parameters

Name	Type
slot	Slot
port	Port
sip	srcIPv6
snxthdr	uInt16
dip	dstIPv6
dnxthdr	uInt16
prot	uInt16
class	uInt16
label	uInt32

IPFIX.FlowRcrd.NonIP

Description

Received a new NonIP flow record from the port.

Remedy

This is an informational message only.

Severity

Info

Message Text

Rcvd NonIP Flow Record port `%slot%:%port%` with srcmac `%smac%` dstmac `%dmac%` vlan `%vlan%` ethertype `%etype%`

Message Parameters

Name	Type
slot	Slot
port	Port
smac	srcMAC
dmac	dstMAC
vlan	uInt16
etype	uInt16

IPFIX.FlowRcrd.General

Description

Statistical data for received flow record from the port.

Remedy

This is an informational message only.

Severity

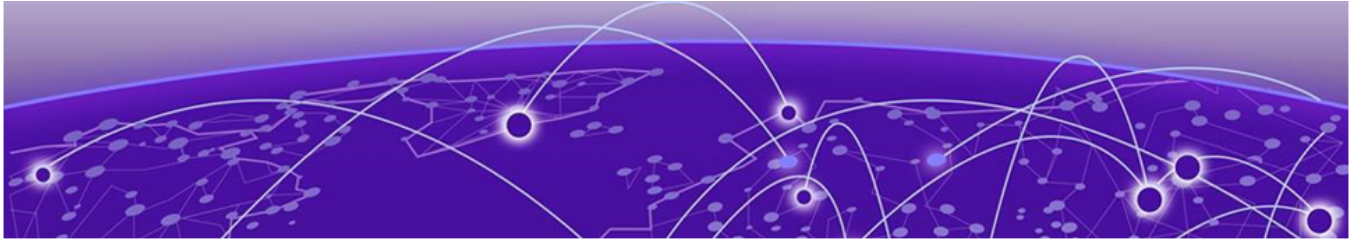
Info

Message Text

Rcvd Flow Record pkts `%pkts%` bytes `%bytes%` reason `%reason%` start `%start%` last `%last%`

Message Parameters

Name	Type
pkts	uInt32
bytes	uInt64
reason	uInt8
start	uInt32
last	uInt32



IPMC Messages

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IPMC.Error on page 2512
IPMC.Warning on page 2512
IPMC.Notice on page 2513
IPMC.Info on page 2514
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IPMC.init on page 2516
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IPMC.NotifyV3Members on page 2517
IPMC.AddMemberErr on page 2518
IPMC.mcmAddMember on page 2518
IPMC.FmcDebug on page 2519
IPMC.RxIGMPQueryCfgMisMatch on page 2519
IPMC.RxMLDQueryCfgMisMatch on page 2520

IPMC.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

IPMC.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

IPMC.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

IPMC.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

IPMC.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

IPMC.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

IPMC.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

IPMC.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

IPMC.init

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

System initialization : `%errorMsg%`

Message Parameters

Name	Type
errorMsg	String

IPMC.memAlloc

Description

No description is available.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by by rejecting the request or performing some default action.

Severity

Critical

Message Text

`%msg%`

Message Parameters

Name	Type
msg	String

IPMC.NotifyV3Members

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior. MCM is informing PIM about IGMP memberships based on IGMP v3 reports.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

Group `%gaddr%`

Message Parameters

Name	Type
gaddr	IPaddrN

IPMC.AddMemberErr

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior. MCM is informing PIM about IGMP memberships but could not succeed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

Group `%gaddr%`

Message Parameters

Name	Type
gaddr	IPaddrN

IPMC.mcmAddMember

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior. MCM is informing PIM about IGMP membership.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

Source `%saddr%`, Group `%gaddr%`, Vlan ifindex `%ifIndex%`

Message Parameters

Name	Type
saddr	IPaddrN
gaddr	IPaddrN
ifIndex	uInt

IPMC.FmcDebug

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

IPMC.RxIGMPQueryCfgMisMatch

Description

An IGMP query has been received whose version is different from the configured version; but the query is not dropped. Each query is examined and compared to the configured version; but the event is made to occur only once per minute. Whether the event gets logged depends on the log configuration. If the configured version is IGMPv3 but a lower version of query is received, IGMPv3 hosts gracefully continue to operate but in a less-than-optimal manner using lower version compatibility mode.

Remedy

Configure IGMPv3 in all switches to utilize IGMPv3 protocol's full capability. If any of the switches doesn't support IGMPv3, then configure same lower IGMP version in all switches. To disable logging of the event, use the command: configure log filter "DefaultFilter" add exclude events "IPMC.RxIGMPQueryCfgMisMatch"

Severity

Notice

Message Text

Received an IGMPv`%ver%` query on VLAN `%vlan%` configured for IGMPv`%cfgVer%` from `%srcAddr%`

Message Parameters

Name	Type
ver	uInt8
vlan	VLAN
cfgVer	uInt8
srcAddr	IPN

IPMC.RxMLDQueryCfgMisMatch

Description

A MLD query has been received whose version is different from the configured version; but the query is not dropped. Each query is examined and compared to the configured version; but the event is made to occur only once per minute. Whether the event gets logged depends on the log configuration. If the configured version is MLDv2 but a MLDv1 query is received, MLDv2 hosts gracefully continue to operate but in a less-than-optimal manner using MLDv1 compatibility mode.

Remedy

Configure MLDv2 in all switches to utilize MLDv2 protocol's full capability. If any of the switches doesn't support MLDv2, then configure MLDv1 in all switches. To disable logging of the event, use the command: configure log filter "DefaultFilter" add exclude events "IPMC.RxMLDQueryCfgMisMatch"

Severity

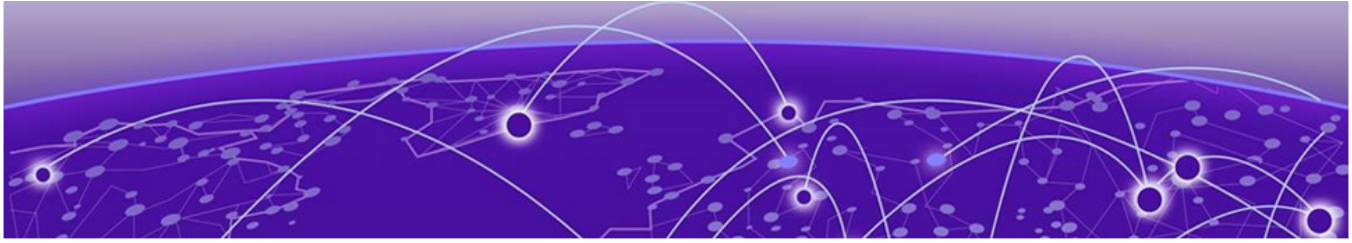
Notice

Message Text

Received a MLDv`%ver%` query on VLAN `%vlan%` configured for MLDv`%cfgVer%` from `%srcAddr%`

Message Parameters

Name	Type
ver	uInt8
vlan	VLAN
cfgVer	uInt8
srcAddr	IPv6



IPMC.HAL Messages

IPMC.HAL.AddIPv6Cache on page 2522
IPMC.HAL.DelIPv6Cache on page 2523
IPMC.HAL.FlushIPv6Cache on page 2523
IPMC.HAL.AddPortIPv6Cache on page 2524
IPMC.HAL.DelPortIPv6Cache on page 2525

IPMC.HAL.AddIPv6Cache

Description

This is a debug message which indicates that an IPv6 cache is added in HAL.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Invoking HAL_IPv6_MC_ADD_CACHE src=`%src%`, grp=`%grp%`, inVlan=`%inVlan%`

Message Parameters

Name	Type
src	IPv6
grp	IPv6
inVlan	String

IPMC.HAL.DelIPv6Cache

Description

This is a debug message which indicates that an IPv6 cache is deleted in HAL.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Invoking HAL_IPv6_MC_DEL_CACHE src=`%src%`, grp=`%grp%`, inVlan=`%inVlan%`

Message Parameters

Name	Type
src	IPv6
grp	IPv6
inVlan	String

IPMC.HAL.FlushIPv6Cache

Description

This is a debug message which indicates that an IPv6 cache is flushed in HAL.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Invoking HAL_IPv6_MC_FLUSH src=`%src%`, grp=`%grp%`, inVlan=`%inVlan%`

Message Parameters

Name	Type
src	IPv6
grp	IPv6
inVlan	String

IPMC.HAL.AddPortIPv6Cache

Description

This is a debug message which indicates that a port is added to an IPv6 cache in HAL.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Invoking HAL_IPv6_MC_ADD_PORT for `%cacheType%` cache, src=`%src%`, grp=`%grp%`, inVlan=`%inVlan%`, port_vlan=`%vlan%`, slot=`%slot%`, port=`%port%`

Message Parameters

Name	Type
src	IPv6
grp	IPv6
inVlan	String
vlan	String
slot	Slot
port	Port
cacheType	String

IPMC.HAL.DelPortIPv6Cache

Description

This is a debug message which indicates that a port is deleted from an IPv6 cache in HAL.

Remedy

No action required - Informational message only.

Severity

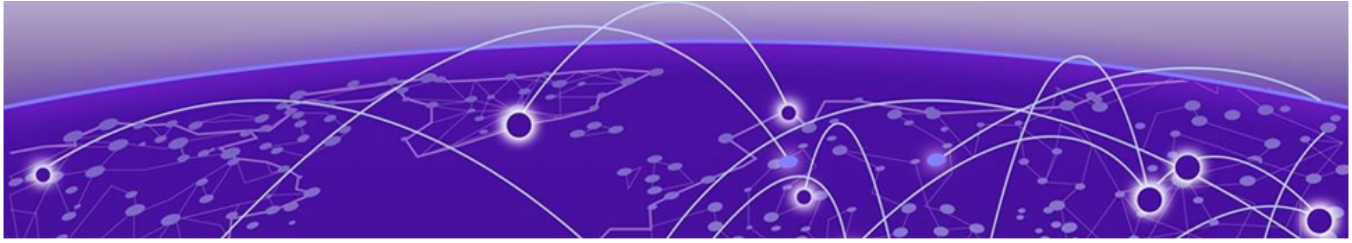
Debug-Data

Message Text

Invoking HAL_IPv6_MC_DELETE_PORT for `%cacheType%` cache, src=`%src%`, grp=`%grp%`, inVlan=`%inVlan%`, port_vlan=`%vlan%`, slot=`%slot%`, port=`%port%`

Message Parameters

Name	Type
src	IPv6
grp	IPv6
inVlan	String
vlan	String
slot	Slot
port	Port
cacheType	String



IPMC.mrinfo Messages

IPMC.mrinfo.RxReq on page 2526
IPMC.mrinfo.RxRspns on page 2527
IPMC.mrinfo.SendReqToPIM on page 2527
IPMC.mrinfo.RecvRspnsFmPIM on page 2528
IPMC.mrinfo.TxReq on page 2529
IPMC.mrinfo.TxRspns on page 2529
IPMC.mrinfo.DropRspns on page 2530
IPMC.mrinfo.DropReq on page 2531
IPMC.mrinfo.TxReqFail on page 2531
IPMC.mrinfo.TxRspnsFail on page 2532
IPMC.mrinfo.ClntSessnTmout on page 2533

IPMC.mrinfo.RxReq

Description

This log is displayed when mrinfo request (DVMRP Ask Neighbors 2 control packet) is received by the switch.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received DVMRP Ask Neighbors2 packet from `%fromAddr%` to `%toAddr%` on VR `%vrId%`

Message Parameters

Name	Type
fromAddr	IPN
toAddr	IPN
vrId	uInt32

IPMC.mrinfo.RxRspns

Description

This log is displayed when mrinfo response (DVMRP Neighbors 2 control packet) is received by the switch.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received DVMRP Neighbors2 packet from `%fromAddr%` to `%toAddr%` of size `%pktLen%` on VR `%vrId%`

Message Parameters

Name	Type
fromAddr	IPN
toAddr	IPN
pktLen	uInt32
vrId	uInt32

IPMC.mrinfo.SendReqToPIM

Description

Information required for filling mrinfo response block is obtained from PIM. This log is displayed when received mrinfo request (DVMRP Neighbors 2 control packet) is sent to PIM.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending mrinfo request to PIM received from `%fromAddr%` to `%toAddr%` for VR `%vrId%`

Message Parameters

Name	Type
fromAddr	IPN
toAddr	IPN
vrId	uInt32

IPMC.mrinfo.RecvRspnsFmPIM

Description

This log is displayed when response is received from PIM by the multicast manager for the mrinfo request. There may be multiple responses from PIM for a single request. This log also indicates whether this response is the last one or not.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received response from PIM for the mrinfo request from `%fromAddr%` toAddr `%toAddr%` of size `%pktLen%` on VR `%vrId%`. This is `%status%` the last response packet.

Message Parameters

Name	Type
fromAddr	IPN
toAddr	IPN
pktLen	uInt16
vrId	uInt32
status	String

IPMC.mrinfo.TxReq

Description

This log is displayed when mrinfo request (DVMRP Ask Neighbors 2 control packet) is being sent out by the switch when "mrinfo" command is executed.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending DVMRP Ask Neigbors2 packet to `%toAddr%` from `%fromAddr%` on VR `%vrId%`

Message Parameters

Name	Type
toAddr	IPN
fromAddr	IPN
vrId	uInt32

IPMC.mrinfo.TxRspns

Description

This log is displayed when mrinfo response (DVMRP Neighbors 2 control packet) isbeing sent out by the switch in response to mrinfo request.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending DVMRP Neigbors2 packet to `%toAddr%` from `%fromAddr%` of size `%pktLen%` on VR `%vrId%`

Message Parameters

Name	Type
toAddr	IPN
fromAddr	IPN
pktLen	uInt16
vrId	uInt32

IPMC.mrinfo.DropRspns

Description

This log is displayed when received mrinfo response (DVMRP Neighbors 2 control packet) is dropped.

Remedy

Error string displays the reason. If the response was discarded with error "session not found", increase the timeout value in the mrinfo command.

Severity

Debug-Summary

Message Text

Dropping DVMRP Neigbors2 packet to `%toAddr%` from `%fromAddr%` of size `%pktLen%` on VR `%vrId%` due to `%errString%`

Message Parameters

Name	Type
toAddr	IPN
fromAddr	IPN
pktLen	uInt16
vrId	uInt32
errString	String

IPMC.mrinfo.DropReq

Description

This log is displayed when received mrinfo request (DVMRP Neighbors 2 control packet) isdropped in EXOS switch.

Remedy

Error string displays the reason.

Severity

Debug-Summary

Message Text

Dropping DVMRP Neigbors2 packet to `%toAddr%` from `%fromAddr%` on VR `%vrId%` due to `%errString%`

Message Parameters

Name	Type
toAddr	IPN
fromAddr	IPN
vrId	uInt32
errString	String

IPMC.mrinfo.TxReqFail

Description

This log is displayed when the mrinfo client could not send mrinfo request (DVMRP Neighbors 2) control packet.

Remedy

Error string gives more information. If sending fails due to unavailability of route to the multicast router address being queried, add the route.

Severity

Debug-Summary

Message Text

Sent failed for DVMRP Ask Neigbors2 packet to `%toAddr%` from `%fromAddr%` on VR `%vrId%`

Message Parameters

Name	Type
toAddr	IPN
fromAddr	IPN
vrId	uInt32

IPMC.mrinfo.TxRspnsFail

Description

This log is displayed when sending mrinfo response (DVMRP Neighbors 2 control packet) packet failed.

Remedy

Error string gives more information. If sending fails due to unavailability of route to the mrinfo request initiator, add the route.

Severity

Debug-Summary

Message Text

Sent failed for DVMRP Neigbors2 packet to `%toAddr%` from `%fromAddr%` of size `%pktLen%` on VR `%vrId%`

Message Parameters

Name	Type
toAddr	IPN
fromAddr	IPN
pktLen	uInt16
vrId	uInt32

IPMC.mrinfo.ClntSessnTmout

Description

This log is displayed when mrinfo client (query initiator) node timesout.

Remedy

Could try increasing the timeout value.

Severity

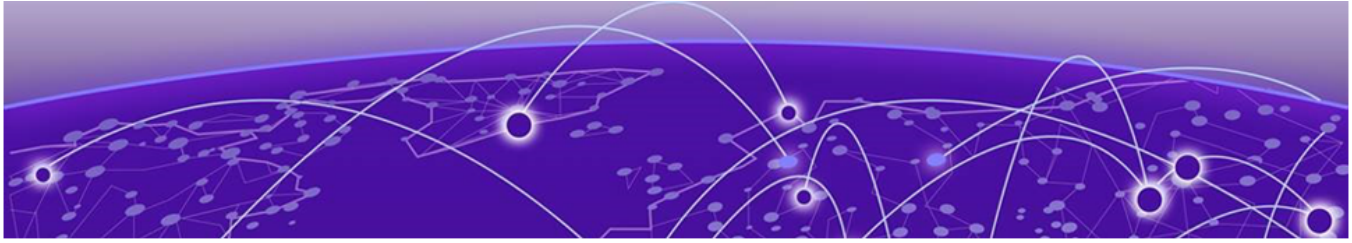
Debug-Summary

Message Text

mrinfo Client session from `%fromAddr%` to `%toAddr%` timesout with sent request count `%sentPkt%` and received response count `%recvPkt%` on VR `%vrId%`

Message Parameters

Name	Type
fromAddr	IPN
toAddr	IPN
sentPkt	uInt32
recvPkt	uInt32
vrId	uInt32



IPMC.mtrace Messages

IPMC.mtrace.RxRspns on page 2534
IPMC.mtrace.RxReq on page 2535
IPMC.mtrace.SendReqToPIM on page 2536
IPMC.mtrace.RecvRspnsFmPIM on page 2536
IPMC.mtrace.TxReq on page 2537
IPMC.mtrace.FwdReq on page 2538
IPMC.mtrace.TxRspns on page 2539
IPMC.mtrace.DropReq on page 2540
IPMC.mtrace.DropRspns on page 2540
IPMC.mtrace.TxReqFail on page 2541
IPMC.mtrace.TxRspnsFail on page 2542
IPMC.mtrace.ClntSessnTmout on page 2542

IPMC.mtrace.RxRspns

Description

This log is displayed when mtrace response is received by the switch.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received mtrace response with source `%srcAddr%` group Address `%grpAddr%` destination address `%destAddr%` queryId `%queryId%` on VR `%vrId%`

Message Parameters

Name	Type
srcAddr	IPN
grpAddr	IPN
destAddr	IPN
queryId	uInt32
vrId	uInt32

IPMC.mtrace.RxReq

Description

This log is displayed when mtrace query or request is received by the switch

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received mtrace `%type%` with source `%srcAddr%` group Address `%grpAddr%` destination address `%destAddr%` response address `%respAddr%` TTL `%ttl%` hops `%hops%` QueryId `%queryId%` on VR `%vrId%`

Message Parameters

Name	Type
type	String
srcAddr	IPN
grpAddr	IPN
destAddr	IPN
respAddr	IPN
ttl	uInt8
hops	uInt8
queryId	uInt32
vrId	uInt32

IPMC.mtrace.SendReqToPIM

Description

This log message is displayed when the Multicast manager module sends the received mtrace query/request message to PIM protocol to get the information to fill the response block.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending mtrace `%type%` with source address `%srcAddr%` group address `%grpAddr%` destination address `%destAddr%` queryId `%queryId%` to PIM for VR `%vrId%`

Message Parameters

Name	Type
type	String
srcAddr	IPN
grpAddr	IPN
destAddr	IPN
queryId	uInt32
vrId	uInt32

IPMC.mtrace.RecvRspnsFmPIM

Description

When mtrace query or request is received on switch, after preprocessing, request is sent to PIM to get the information to fill the response. This message is displayed when multicast manager receives the response from PIM

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received response from PIM for `%srcAddr%` `%grpAddr%` `%queryId%` with previous hop address `%prevHopAddr%` incoming interface address `%iifAddr%` srcMask `%srcMask%` forwarding code `%fwdCode%` on VR `%vrId%`

Message Parameters

Name	Type
srcAddr	IPN
grpAddr	IPN
queryId	uInt32
prevHopAddr	IPN
iifAddr	IPN
srcMask	uInt8
fwdCode	uInt8
vrId	uInt32

IPMC.mtrace.TxReq

Description

This is displayed when a mtrace query or request is sent by mtrace client.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending mtrace `%type%` with source `%srcAddr%` group Address `%grpAddr%` destination address `%destAddr%` response address `%respAddr%` TTL `%ttl%` hops `%hops%` QueryId `%queryId%` to `%toAddr%` on VR `%vrId%`

Message Parameters

Name	Type
type	String
srcAddr	IPN
grpAddr	IPN
destAddr	IPN
respAddr	IPN
ttl	uInt8
hops	uInt8
queryId	uInt32
toAddr	IPN
vrId	uInt32

IPMC.mtrace.FwdReq

Description

If there is a valid previous hop router for the requested multicast trace, a response block is added to the request packet and forwarded to the previous hop router. This message is displayed when the request is forwarded to previous hop router.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Forwarding mtrace request to previous hop `%prevHopAddr%` for `%srcAddr%` `%grpAddr%` `%queryId%` with incoming interface address `%iifAddr%` srcMask `%srcMask%` forwarding code `%fwdCode%` on VR `%vrId%`

Message Parameters

Name	Type
prevHopAddr	IPN
srcAddr	IPN
grpAddr	IPN

Name	Type
queryId	uInt32
iifAddr	IPN
srcMask	uInt8
fwdCode	uInt8
vrId	uInt32

IPMC.mtrace.TxRspns

Description

This message is displayed when the mtrace response is sent by a switch to the mtrace query initiator.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending mtrace response to `%ipDestAddr%` for `%srcAddr%` `%grpAddr%` `%queryId%` with incoming interface address `%iifAddr%` srcMask `%srcMask%` forwarding code `%fwdCode%` on VR `%vrId%`

Message Parameters

Name	Type
ipDestAddr	IPN
srcAddr	IPN
grpAddr	IPN
queryId	uInt32
iifAddr	IPN
srcMask	uInt8
fwdCode	uInt8
vrId	uInt32

IPMC.mtrace.DropReq

Description

This log is displayed when mtrace query or request is dropped.

Remedy

Based on the error, new query can be initiated with different parameters.

Severity

Debug-Summary

Message Text

Dropping mtrace `%type%` with source `%srcAddr%` group Address `%grpAddr%` destination address `%destAddr%` QueryId `%queryId%` due to `%errString%` on VR `%vrId%`

Message Parameters

Name	Type
type	String
srcAddr	IPN
grpAddr	IPN
destAddr	IPN
queryId	uInt32
errString	String
vrId	uInt32

IPMC.mtrace.DropRspns

Description

This log is displayed when mtrace response received is dropped.

Remedy

Based on the error, new query can be initiated with different parameters.

Severity

Debug-Summary

Message Text

Dropping mtrace response with source `%srcAddr%` group Address `%grpAddr%` destination address `%destAddr%` QueryId `%queryId%` due to `%errString%` on VR `%vrId%`

Message Parameters

Name	Type
srcAddr	IPN
grpAddr	IPN
destAddr	IPN
queryId	uInt32
errString	String
vrId	uInt32

IPMC.mtrace.TxReqFail

Description

This log is displayed when sending mtrace query or request is failed due to some reason.

Remedy

Based on the error, new query can be initiated with different parameters.

Severity

Debug-Summary

Message Text

Sent failed for mtrace `%type%` with source `%srcAddr%` group Address `%grpAddr%` destination address `%destAddr%` QueryId `%queryId%` on VR `%vrId%`

Message Parameters

Name	Type
type	String
srcAddr	IPN
grpAddr	IPN
destAddr	IPN

Name	Type
queryId	uInt32
vrId	uInt32

IPMC.mtrace.TxRspnsFail

Description

This log is displayed when sending mtrace response is failed due to some reason.

Remedy

Based on the error, new query can be initiated with different parameters.

Severity

Debug-Summary

Message Text

Sent failed for mtrace response to `%ipDestAddr%` with source `%srcAddr%` group Address `%grpAddr%` destination address `%destAddr%` QueryId `%queryId%` on VR `%vrId%`

Message Parameters

Name	Type
ipDestAddr	IPN
srcAddr	IPN
grpAddr	IPN
destAddr	IPN
queryId	uInt32
vrId	uInt32

IPMC.mtrace.ClntSessnTmout

Description

This log is displayed when mtrace client (query initiator) node timesout.

Remedy

Informational message only, for debug purpose.

Severity

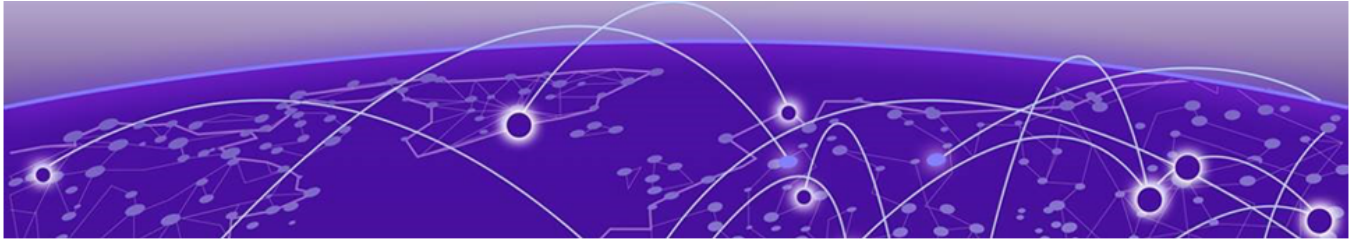
Debug-Summary

Message Text

mtrace Client session for source `%srcAddr%` group Address `%grpAddr%` destination address `%destAddr%` QueryId `%queryId%` timesout on VR `%vrId%`. `%sentpkt%` sent and `%recvpkt%` received

Message Parameters

Name	Type
srcAddr	IPN
grpAddr	IPN
destAddr	IPN
queryId	uInt32
vrId	uInt32
sentpkt	uInt32
recvpkt	uInt32



IPMC.MVR Messages

IPMC.MVR.portCheckFail on page 2544
IPMC.MVR.portCheckPass on page 2545
IPMC.MVR.AddedVif on page 2545
IPMC.MVR.PortTraversal on page 2546

IPMC.MVR.portCheckFail

Description

Port was not added to MVR cache because of reason mentioned here.

Remedy

Debug messag

Severity

Debug-Verbose

Message Text

Port `%slot%:%port%/%vlan%`, failed MVR rule check for cache, `%src%/%dst%/%ivlan%`, `%reason%`

Message Parameters

Name	Type
reason	String
slot	Slot
port	Port
vlan	VLAN
src	IPaddrN

Name	Type
dst	IPaddrN
ivlan	VLAN

IPMC.MVR.portCheckPass

Description

Port was not added to MVR cache because of reason mentioned here.

Remedy

Debug messag

Severity

Debug-Verbose

Message Text

Port `%slot%`:`%port%`/`%vlan%`, passed MVR rule check for cache, `%src%`/`%dst%`/`%ivlan%`, `%reason%`

Message Parameters

Name	Type
reason	String
slot	Slot
port	Port
vlan	VLAN
src	IPaddrN
dst	IPaddrN
ivlan	VLAN

IPMC.MVR.AddedVif

Description

Vlan added to oif list of mvr cache entry

Remedy

Debug messag

Severity

Debug-Data

Message Text

cacheEntry: src=%src%, grp=%grp%, ivlan=%ivlan%, Added OIF vlan=%vlan%

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
ivlan	String
vlan	String

IPMC.MVR.PortTraversal

Description

Info about adding ports to cache entry

Remedy

Debug messag

Severity

Debug-Data

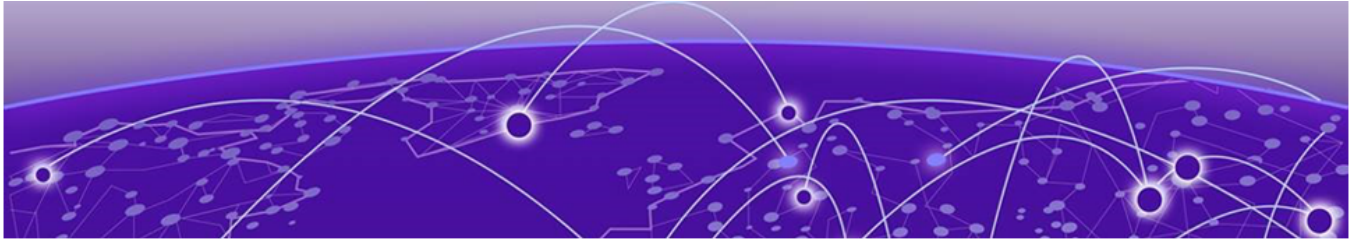
Message Text

%message% port: vlan=%vlan% grp=%grp% Port=%slot%:%port%

Message Parameters

Name	Type
message	String
vlan	String

Name	Type
grp	IPaddrN
slot	Slot
port	Port



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IPMC.Snoop.routerPortAge

Description

Router port has been aged out

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

Router port aged out on `%vlanname%/%port%`

Message Parameters

Name	Type
vlanname	String
port	String

IPMC.Snoop.igmpQuerier

Description

The switch is becoming IGMP querier on specified vlan.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Vlan `%name%` is becoming IGMP querier

Message Parameters

Name	Type
name	String

IPMC.Snoop.nigmpQuerier

Description

The switch is no longer IGMP querier on specified vlan. This is mostly because another router with lower IP address wins election.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Vlan `%name%` is becoming a non-IGMP querier

Message Parameters

Name	Type
name	String

IPMC.Snoop.newReceiver

Description

A new reciver for specified group has been created. This normally results from receiving IGMP report on that port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

Create a new receiver (`%name%`/`%port%`/`%vid%`) for group `%group%`

Message Parameters

Name	Type
name	String
port	String
vid	uInt
group	IPaddrN

IPMC.Snoop.newRouterPort

Description

The specified virtual port is becoming router port, because switch sees local multicast packets used by routing protocols coming from that port or IGMP/MLD report subscribing the multicast group address used by routing protocols.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

Create a new router port (`%name%`/`%port%`/`%vid%`)

Message Parameters

Name	Type
name	String
port	String
vid	uInt

IPMC.Snoop.ageReceiver

Description

Specified receiver has been aged out on specified virtual port. This is mostly because the host is no longer reporting the IGMP membership.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

Age out a receiver (`%name%`/`%port%`/`%vid%`) for group `%group%`

Message Parameters

Name	Type
name	String
port	String
vid	uInt
group	IPN

IPMC.Snoop.l2CacheMiss

Description

A L2 cache miss even is received from Kernel Snooping Module

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

L2 Cache Miss src=`%srcAddr%` group=`%grpAddr%` interface=`%vlan%`

Message Parameters

Name	Type
srcAddr	IPaddrN
grpAddr	IPaddrN
vlan	String

IPMC.Snoop.ageSource

Description

The specified source has been timed out from INCLUDE list of the group, which is in IGMPv3 mode.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

Age out `%src%` on `%name%`/`%slot%`/`%port%`/`%vid%` for group `%group%`

Message Parameters

Name	Type
name	String
slot	Slot
port	Port
vid	uInt
group	IPaddrN
src	IPaddrN

IPMC.Snoop.recvData

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

recv `%len%` bytes msgType = `%type%` from interface `%instance%/%slot%/%port%`

Message Parameters

Name	Type
instance	uInt
slot	Slot
port	Port
len	uInt
type	uInt

IPMC.Snoop.l3CacheMiss

Description

A L3 cache miss even is received from Kernel Module

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

L3 Cache Miss src=`%srcAddr%` group=`%grpAddr%` interface=`%vlan%` encap-dataLen=`%dataLen%`

Message Parameters

Name	Type
srcAddr	IPaddrN
grpAddr	IPaddrN
vlan	String
dataLen	uInt

IPMC.Snoop.cacheError

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

`%msg%` src=`%srcAddr%` group=`%grpAddr%` interface=`%ifIndex%` vrId=`%vId%`

Message Parameters

Name	Type
srcAddr	IPaddrN
grpAddr	IPaddrN
ifIndex	Port
vId	uInt
msg	String

IPMC.Snoop.modeSwIn

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Group `%grpAddr%` mode switching to INCLUDE on vlan `%vlan%`

Message Parameters

Name	Type
vlan	String
grpAddr	IPaddrN

IPMC.Snoop.recvdQueryMsg

Description

An IGMP query is received on specified virtual port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Received IGMP v`%ver%` query for `%group%` from `%srcAddr%` on `%vlan%` port `%port%`

Message Parameters

Name	Type
vlan	VLAN
port	String
srcAddr	IPN
group	IPN
ver	uInt8

IPMC.Snoop.recvdV1ReportMsg

Description

An IGMP report is received on specified virtual port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Received IGMP v`%ver%` report for `%group%` from `%srcAddr%` on `%vlan%` port `%port%`

Message Parameters

Name	Type
vlan	VLAN
port	String
srcAddr	IPN
group	IPN
ver	uInt8

IPMC.Snoop.recvdLeaveMsg

Description

An IGMP LEAVE message is received on specified virtual port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Received IGMP v`%ver%` Leave for `%group%` from `%srcAddr%` on `%vlan%` port `%port%`

Message Parameters

Name	Type
vlan	VLAN
port	String
srcAddr	IPN
group	IPN
ver	uInt8

IPMC.Snoop.sendQueryMsg

Description

An IGMP QUERY message is being sent out on specified vlan

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Send IGMP v`%ver%` query for `%group%` from `%srcAddr%` on `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
srcAddr	IPN
group	IPN
ver	uInt8

IPMC.Snoop.recvdMLDQueryMsg

Description

An MLD query is received on specified virtual port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Received MLD v`%ver%` query for `%group%` from `%srcAddr%` on `%vlan%` port `%slot%:%port%`

Message Parameters

Name	Type
vlan	VLAN
slot	Slot
port	Port
srcAddr	IPv6
group	IPv6
ver	uInt8

IPMC.Snoop.recvdMLDReportMsg

Description

An MLD report is received on specified virtual port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Received MLDv`%ver%` report for `%group%` from `%srcAddr%` on `%vlan%` port `%slot%:%port%`

Message Parameters

Name	Type
vlan	VLAN
slot	Slot
port	Port
srcAddr	IPv6
group	IPv6
ver	uInt8

IPMC.Snoop.recvdMLDReductionMsg

Description

An MLD Reduction message is received on specified virtual port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Received MLD v`%ver%` Reduction for `%group%` from `%srcAddr%` on `%vlan%` port `%slot%:%port%`

Message Parameters

Name	Type
vlan	VLAN
slot	Slot
port	Port
srcAddr	IPv6
group	IPv6
ver	uInt8

IPMC.Snoop.ageMLDReceiver

Description

Specified receiver has been aged out on specified virtual port. This is mostly because the host is no longer reporting the MLD membership.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

Age out a MLD receiver (`%name%`/`%slot%`/`%port%`/`%vid%`) for group `%group%`

Message Parameters

Name	Type
name	String
slot	Slot
port	Port
vid	uInt
group	IPv6

IPMC.Snoop.v1bypassedPim

Description

An IGMP report is received on specified virtual port. This created a new group in IGMP, but information was not propagated to PIM.

Remedy

The IGMP group's snooping entry needs to be cleared. The next time a IGMP Report comes in, we should establish the correct state in IGMP as well as PIM.

Severity

Debug-Summary

Message Text

New IGMP group not sent to PIM. V1 Report for `%group%` from `%srcAddr%` on `%vlan%` port `%port%`. L2vlan:`%l2vlan%`, vlanState:`%vlanSt%`, igmpEnabled:`%igmpEn%`

Message Parameters

Name	Type
vlan	VLAN
port	String
srcAddr	IPN
group	IPN
l2vlan	uInt
vlanSt	uInt8
igmpEn	uInt8

IPMC.Snoop.v2bypassedPim

Description

An IGMP report is received on specified virtual port. This created a new group in IGMP, but information was not propagated to PIM.

Remedy

The IGMP group's snooping entry needs to be cleared. The next time a IGMP Report comes in, we should establish the correct state in IGMP as well as PIM.

Severity

Debug-Summary

Message Text

New IGMP group not sent to PIM. V2 Report for `%group%` from `%srcAddr%` on `%vlan%` port `%port%`. L2vlan:`%l2vlan%`, vlanState:`%vlanSt%`, igmpEnabled:`%igmpEn%`

Message Parameters

Name	Type
vlan	VLAN
port	String
srcAddr	IPN
group	IPN
l2vlan	uInt
vlanSt	uInt8
igmpEn	uInt8

IPMC.Snoop.recvdV2ReportMsg

Description

An IGMP report is received on specified virtual port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Received IGMP v`%ver%` report for `%group%` from `%srcAddr%` on `%vlan%` port `%port%`

Message Parameters

Name	Type
vlan	VLAN
port	String

Name	Type
srcAddr	IPN
group	IPN
ver	uInt8

IPMC.Snoop.recvdV3ReportMsg

Description

An IGMP report is received on specified virtual port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Received IGMP v`%ver%` report for `%group%` of type `%type%` from `%srcAddr%` on `%vlan%` port `%port%`

Message Parameters

Name	Type
vlan	VLAN
port	String
srcAddr	IPN
group	IPN
ver	uInt8
type	uInt8

IPMC.Snoop.recvdV3NewGroup

Description

An IGMP report is received on specified virtual port. New IGMP group entry in MCMGR.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Received IGMP v`%ver%` report for `%group%` from `%srcAddr%` on `%vlan%` port `%port%`

Message Parameters

Name	Type
vlan	VLAN
port	String
srcAddr	IPN
group	IPN
ver	uInt8

IPMC.Snoop.membersNotSent

Description

IGMP membership reports not sent.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

IGMP membership reports not sent

IPMC.Snoop.processIgmpReport

Description

This function should not be called. Adding this EMS log message to see if it ever gets invoked.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Function `%msg%` called

Message Parameters

Name	Type
msg	Printf

IPMC.Snoop.PimSnoopPktRcv

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

PIM `%type%` pkt of length `%len%` rxed on vlan=`%name%` port=`%slot%`:`%port%` with src addr `%src%`

Message Parameters

Name	Type
type	String
len	uInt
name	String
slot	Slot

Name	Type
port	Port
src	IPN

IPMC.Snoop.changeGroupVersion

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Changed version of vlan=`%name%` group=`%grp%` to `%version%`

Message Parameters

Name	Type
name	String
grp	IPaddrN
version	uInt

IPMC.Snoop.changeReceiverVersion

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Changed version of vlan=%name% group=%grp% port=%port% to %version%

Message Parameters

Name	Type
name	String
grp	IPaddrN
version	uInt
port	String

IPMC.Snoop.ReceiverGrpRec

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Processing receiver group record type=%type% for vlan=%name% group=%grp% port=%port%

Message Parameters

Name	Type
type	uInt
name	String
grp	IPaddrN
port	String

IPMC.Snoop.setReceiverTimer

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Setting receiver timer at `%location%` to value=`%timerVal%`

Message Parameters

Name	Type
location	String
timerVal	uInt

IPMC.Snoop.receivedWholePacket

Description

A Whole multicast packet is received from Kernel Module.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Received a whole packet src=`%srcAddr%` group=`%grpAddr%` total length=`%len%`

Message Parameters

Name	Type
srcAddr	IPaddrN
grpAddr	IPaddrN
len	uInt

IPMC.Snoop.wholePktLenMismatch

Description

A Whole multicast packet is received from Kernel Module, but there is a mistmatch in the IP packet length field and the actual p acket length received.

Remedy

.

Severity

Warning

Message Text

Mismatch in whole packet src=`%srcAddr%` group=`%grpAddr%` IP Length=`%len1%` but Actual Length=`%len2%`

Message Parameters

Name	Type
srcAddr	IPaddrN
grpAddr	IPaddrN
len1	uInt
len2	uInt

IPMC.Snoop.delOif

Description

No description is available.

Remedy

.

Severity

Debug-Data

Message Text

Deleting oif for cache entry: src=`%srcAddr%` group=`%grpAddr%` inVlan=`%inVlan%` oif=`%oif%`

Message Parameters

Name	Type
srcAddr	IPaddrN
grpAddr	IPaddrN
inVlan	uInt
oif	uInt

IPMC.Snoop.addOif

Description

No description is available.

Remedy

.

Severity

Debug-Data

Message Text

Adding oif for cache entry: src=`%srcAddr%` group=`%grpAddr%` inVlan=`%inVlan%` oif=`%oif%`

Message Parameters

Name	Type
srcAddr	IPaddrN
grpAddr	IPaddrN
inVlan	uInt
oif	uInt

IPMC.Snoop.KernDelL2Cache

Description

No description is available.

Remedy

.

Severity

Debug-Data

Message Text

Deleting L2 Kernel Cache: src=`%srcAddr%` group=`%grpAddr%` inVlan=`%inVlan%`

Message Parameters

Name	Type
srcAddr	IPaddrN
grpAddr	IPaddrN
inVlan	String

IPMC.Snoop.sendMLDQueryMsg

Description

An MLD QUERY message is being sent out on specified vlan.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Send MLD v`%ver%` query for `%grp%` from `%srcAddr%` on `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
srcAddr	IPv6
grp	IPv6
ver	uInt8

IPMC.Snoop.MLDQuerier

Description

The switch is becoming MLD querier on specified vlan.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Vlan `%name%` is becoming MLD querier

Message Parameters

Name	Type
name	String

IPMC.Snoop.nMLDQuerier

Description

The switch is no longer MLD querier on specified vlan. This is mostly because another router with lower IP address wins election.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

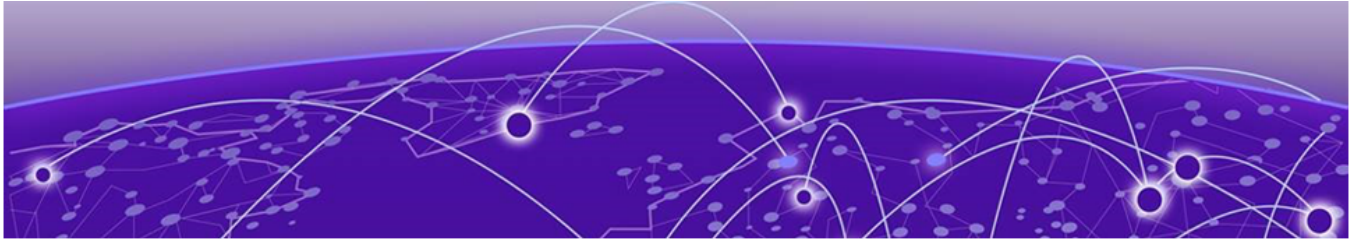
Debug-Summary

Message Text

Vlan `%name%` is becoming a non-MLD querier

Message Parameters

Name	Type
name	String



IPMC.SSMMap Messages

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IPMC.SSMMap.ssmRangeUnSet on page 2577

IPMC.SSMMap.pimNotifyJoin

Description

PIM is notified of SSM Mapped (S,G) pair for Join.

Remedy

Debug message

Severity

Debug-Verbose

Message Text

Sending (S,G) mapping to PIM for (`%srcAddr%`,`%group%`) Join on vr `%vrId%`

Message Parameters

Name	Type
srcAddr	IPN
group	IPN
vrId	uInt

IPMC.SSMMap.pimNotifyPrune

Description

PIM is notified of SSM Mapped (S,G) pair for Prune.

Remedy

Debug messag

Severity

Debug-Verbose

Message Text

Sending (S,G) mapping to PIM for (`%srcAddr%`,`%group%`) Prune on vr `%vrId%`

Message Parameters

Name	Type
srcAddr	IPN
group	IPN
vrId	uInt

IPMC.SSMMap.ssmRangeSet

Description

SSM Node is in the PIM SSM Range.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

SSM Node `%group%`/`%maskLen%` is in PIM SSM Range on vr `%vrId%`

Message Parameters

Name	Type
group	IPaddrN
maskLen	uInt
vrId	uInt

IPMC.SSMMap.ssmRangeUnSet

Description

SSM Node is out of PIM SSM Range.

Remedy

No action required - Informational message only.

Severity

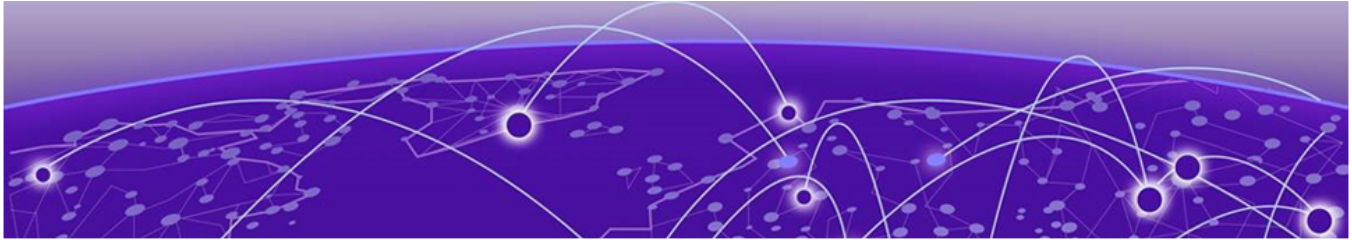
Debug-Verbose

Message Text

SSM Node `%group%`/`%maskLen%` is out of PIM SSM Range on vr `%vrId%`

Message Parameters

Name	Type
group	IPaddrN
maskLen	uInt
vrId	uInt



IPMC.VLAN Messages

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IPMC.VLAN.addPort on page 2579
IPMC.VLAN.deletePort on page 2580
IPMC.VLAN.mismatchLocalGrpTree on page 2581
IPMC.VLAN.insertLocalFailed on page 2581
IPMC.VLAN.msdpEncapFail on page 2582
IPMC.VLAN.DelPortHal on page 2583
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IPMC.VLAN.DelRtrPort on page 2584
IPMC.VLAN.addCacheHal on page 2585
IPMC.VLAN.delInPortHal on page 2586
IPMC.VLAN.delCacheHal on page 2586
IPMC.VLAN.addPortHal on page 2587
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IPMC.VLAN.addCachePortHal on page 2589
IPMC.VLAN.delVifHal on page 2589
IPMC.VLAN.flushCacheHal on page 2590
IPMC.VLAN.flushPortHal on page 2591
IPMC.VLAN.setVlanState on page 2591

IPMC.VLAN.create

Description

Enter optional Description here

Remedy

Enter optional Remedy here

Severity

Debug-Summary

Message Text

Create vlan `%name%` ifInstance = `%instance%`

Message Parameters

Name	Type
name	String
instance	uInt

IPMC.VLAN.delete

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Delete vlan `%name%` ifInstance=`%instance%`

Message Parameters

Name	Type
name	String
instance	uInt

IPMC.VLAN.addPort

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Add port `%slot%:%port%` to vlan `%name%` ifInstance=`%instance%`

Message Parameters

Name	Type
name	String
instance	uInt
slot	Slot
port	Port

IPMC.VLAN.deletePort

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Delete port `%slot%:%port%` to vlan `%name%` ifInstance=`%instance%`

Message Parameters

Name	Type
name	String
instance	uInt

Name	Type
slot	Slot
port	Port

IPMC.VLAN.mismatchLocalGrpTree

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

In global group list found `%type%` local group `%grp%` on vlan `%name%` with ifInstance=`%instance%`

Message Parameters

Name	Type
grp	IPaddrN
name	String
instance	uInt
type	String

IPMC.VLAN.insertLocalFailed

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

In `%tree%` group list could not insert local group `%grp%` on vlan `%name%` with ifInstance=`%instance%`

Message Parameters

Name	Type
grp	IPaddrN
name	String
instance	uInt
tree	String

IPMC.VLAN.msdpEncapFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Could not encapsulate multicast data packet src=`%src%` grp=`%grp%` vlan=`%index%` size=`%size%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
index	uInt
size	uInt

IPMC.VLAN.DelPortHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Invoking HAL_IPv4_MC_DELETE_PORT src=`%src%`, grp=`%grp%`, inVlan=`%inVlan%`, port_vlan=`%vlan%`, slot=`%slot%`, port=`%port%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
inVlan	String
vlan	String
slot	Slot
port	Port

IPMC.VLAN.delMsgToPim

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Sending MCM_MSG_MEMBERSHIP_DEL to PIM:src=%src%, grp=%grp%, vlan=%vlan%

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
vlan	uInt

IPMC.VLAN.InsRtrPort

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

vlan=%vlan% port=%slot%:%port%

Message Parameters

Name	Type
vlan	String
slot	Slot
port	Port

IPMC.VLAN.DelRtrPort

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

vlan=%vlan% port=%slot%:%port%

Message Parameters

Name	Type
vlan	String
slot	Slot
port	Port

IPMC.VLAN.addCacheHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Invoking HAL_IPv4_MC_ADD_CACHE src=%src%, grp=%grp%, inVlan=%nVlan%, origVlan=%origVlan%

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

Name	Type
nVlan	String
origVlan	uInt

IPMC.VLAN.delInPortHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Invoking HAL_IPv4_MC_DEL_IN_PORT src=`%src%`, grp=`%grp%`, inVlan=`%inVlan%`, origVlan=`%origVlan%`, inSlot=`%slot%`, inPort=`%port%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
inVlan	String
origVlan	uInt
slot	Slot
port	Port

IPMC.VLAN.delCacheHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Invoking HAL_IPv4_MC_DEL_CACHE src=%src%, grp=%grp%, inVlan=%inVlan%, origVlan=%origVlan%

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
inVlan	String
origVlan	uInt

IPMC.VLAN.addPortHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Invoking HAL_IPv4_MC_ADD_PORT src=%src%, grp=%grp%, inVlan=%inVlan%, port_vlan=%vlan%, slot=%slot%, port=%port%

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
inVlan	String
vlan	String

Name	Type
slot	Slot
port	Port

IPMC.VLAN.addVifHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Invoking HAL_IPv4_MC_ADD_PORT src=`%src%`, grp=`%grp%`, inVlan=`%inVlan%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
inVlan	String

IPMC.VLAN.addVifPortHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

vlan=%vlan% port=%slot%:%port%

Message Parameters

Name	Type
vlan	String
slot	Slot
port	Port

IPMC.VLAN.addCachePortHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

vlan=%vlan% port=%slot%:%port%

Message Parameters

Name	Type
vlan	String
slot	Slot
port	Port

IPMC.VLAN.delVifHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Invoking HAL_IPv4_MC_DELETE_PORT src=%src%, grp=%grp%, inVlan=%inVlan%, vif=%vlan%, port=%slot%:%port%

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
inVlan	String
vlan	String
slot	Slot
port	Port

IPMC.VLAN.flushCacheHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Invoking HAL_IPv4_MC_FLUSH src=%src%, srcMask=%srcMask%, grp=%grp%, inVlan=%inVlan%

Message Parameters

Name	Type
src	IPaddrN
srcMask	IPaddrN
grp	IPaddrN
inVlan	String

IPMC.VLAN.flushPortHal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Invoking HAL_IPv4_MC_FLUSH_PORT msgId=`%msgId%`

Message Parameters

Name	Type
msgId	uInt

IPMC.VLAN.setVlanState

Description

No description is available.

Remedy

No remedy is available.

Severity

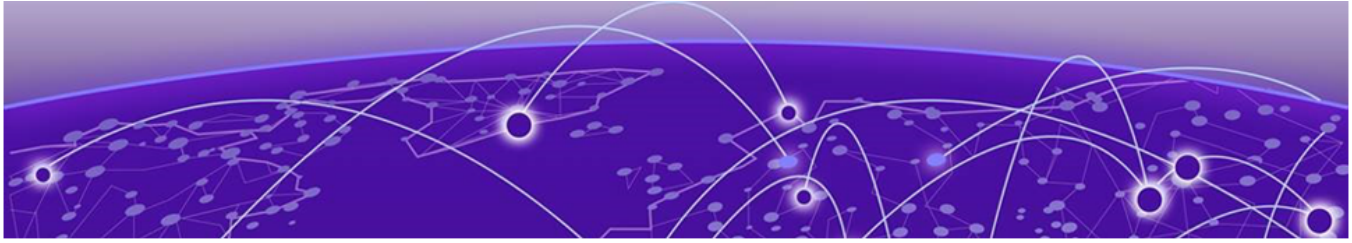
Debug-Data

Message Text

Setting vlan=`%vlan%` state `%state%`

Message Parameters

Name	Type
vlan	String
state	String



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IPMC.VSM.ClntInitFail

Description

Initialization of MCMGR with VSM module has failed. In such a case MLAG functionality with respect to multicast traffic will not function properly.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

VSM client initialization failed, Error = `%err%`

Message Parameters

Name	Type
err	sInt

IPMC.VSM.SetAppDataFail

Description

Setting application-specific data for the ISC has failed. In such a case MLAG functionality with respect to multicast traffic will not function properly.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Unable to set application-specific data for ISC `%isc%`, Error = `%err%`

Message Parameters

Name	Type
isc	uInt16
err	sInt

IPMC.VSM.AllocBufFail

Description

Allocation of checkpoint buffer has failed. In such a case MLAG functionality with respect to multicast traffic will not function properly.

Remedy

Check the system parameters and scale down the configuration if necessary.

Severity

Error

Message Text

Unable to allocate IPML buffer for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.AllocAppDataFail

Description

Allocation of buffer for application-specific data has failed. In such a case MLAG functionality with respect to multicast traffic will not function properly.

Remedy

Check the system parameters and scale down the configuration if necessary.

Severity

Error

Message Text

Unable to allocate ISC-specific global information for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.GetISCStateFail

Description

An attempt to get the state of the ISC port from VSM client failed.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Unable to get ISC state for ISC `%isc%`, Error = `%err%`

Message Parameters

Name	Type
isc	uInt16
err	sInt

IPMC.VSM.CreatISC

Description

This is a debug message indicating that an ISC is being created.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Create ISC for index `%isc%`

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.CreatCkptTxTimer

Description

This is a debug message indicating that a timer which is used for transmitting checkpoint messages is created. This message will appear when the first ISC is being created.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Checkpoint Tx timer created

IPMC.VSM.DelISC

Description

This is a debug message indicating that an ISC is being deleted.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Deleting ISC for index `%isc%`

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.DelCkptTxTimer

Description

This is a debug message indicating that the timer used for transmitting checkpoint messages is deleted. This message will appear when the last ISC is being deleted.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Checkpoint Tx timer deleted

IPMC.VSM.UpdtISC

Description

This is a debug message indicating that an update of ISC-related parameters is being attempted. The parameters that can be modified are ISC state, ISC port instance and IP address.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Update ISC for ISC `%isc%`, change mask `%mask%`

Message Parameters

Name	Type
isc	uInt16
mask	xInt32

IPMC.VSM.StateChgNtfn

Description

This is a debug message indicating that the state of an ISC has changed.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

State change notification for ISC `%isc%`, state = `%state%`

Message Parameters

Name	Type
isc	uInt16
state	sInt

IPMC.VSM.ISCUp

Description

This is a debug message indicating that the state of an ISC has changed to UP.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

State changed to UP for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.AppDataNull

Description

This is a debug message indicating that application data specific to an ISC is NULL.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

ISC `%isc%` is UP but application-specific data is NULL

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.ISCDown

Description

This is a debug message indicating that the state of an ISC has changed to DOWN.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

ISC `%isc%` is DOWN, re-initialize application-specific data

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.AllocISCNodeFail

Description

This message indicates that an attempt to allocate an ISC node, which includes ISC-related information per VLAN, has failed. VLAN-related checkpointing with respect to multicast will not function properly.

Remedy

Check the system parameters and scale down the configuration if necessary.

Severity

Error

Message Text

Unable to allocate ISC node for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.ISCPortInstcInv

Description

This is a debug message which indicates that the port instance for the given ISC is invalid. Port instance value for an ISC will be invalid until ISC state transitions to UP.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Port instance for ISC `%isc%` is invalid

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.GetISCPortInstcFail

Description

This message indicates that an attempt to get the port instance value, for the specified ISC, from VSM has failed.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Unable to get port instance for ISC `%isc%`, Error `%err%`

Message Parameters

Name	Type
isc	uInt16
err	sInt

IPMC.VSM.CreatMLAG

Description

This ia debug message which indicates that an MLAG has been created.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Created MLAG for index `%mlag%`

Message Parameters

Name	Type
mlag	uInt16

IPMC.VSM.GetLocMLAGPortInstcFail

Description

This message indicates that an attempt to get the port instance value for an MLAG from VSM has failed.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Unable to get local port instance for MLAG `%mlag%`, Error = `%err%`

Message Parameters

Name	Type
mlag	uInt16
err	sInt

IPMC.VSM.GetRmtMLAGPortStateFail

Description

This message indicates that an attempt to get the remote state for a given MLAG port from VSM has failed.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Unable to get remote port state for MLAG `%mlag%`, Error `%err%`

Message Parameters

Name	Type
mlag	uInt16
err	sInt

IPMC.VSM.GetLocMLAGPortStateFail

Description

This message indicates that an attempt to get the local MLAG port state from VSM has failed.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Unable to get local port state for MLAG `%mlag%`, Error = `%err%`

Message Parameters

Name	Type
mlag	uInt16
err	sInt

IPMC.VSM.MLAGPortInstcInv

Description

This message indicates that the port instance value for the specified MLAG is invalid.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Invalid port instance for MALG `%mlag%`

Message Parameters

Name	Type
mlag	uInt16

IPMC.VSM.DelMLAG

Description

This is a debug message indicating that the specified MLAG is deleted.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Deleted Mlag for index `%mlag%`

Message Parameters

Name	Type
mlag	uInt16

IPMC.VSM.NtfyMLAGStateChg

Description

This is a debug message indicating that parameters relating to an MLAG have changed.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

MLAG state change notification for index `%mlag%`, ISC `%isc%`, remote port state `%state%`

Message Parameters

Name	Type
mlag	uInt16
isc	uInt16
state	sInt

IPMC.VSM.RmtMLAGPortDown

Description

This is a debug message indicating that the port state corresponding to the specified MLAG has changed to DOWN on the remote switch.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

Remote MLAG port down for MLAG `%mlag%`, VLAN `%vlan%`

Message Parameters

Name	Type
mlag	uInt16
vlan	String

IPMC.VSM.GetISCPortFail

Description

This message indicates that an attempt to get the ISC port for the given MLAG has failed.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Debug-Summary

Message Text

Unable to get ISC port corresponding to MLAG `%mlag%`, VLAN `%vlan%`

Message Parameters

Name	Type
mlag	uInt16
vlan	String

IPMC.VSM.RemMLAGIndxFmRecvr

Description

This is a debug message which indicates that an MLAG index is being deleted from the list maintained in the specified receiver (port) for the given group.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

MLAG Port `%mslot%:%mport%` `%reason%`, removing MLAG index `%mlag%` from port `%islot%:%iport%` for group `%grp%`

Message Parameters

Name	Type
mlag	uInt16
mslot	uInt16
mport	uInt16
islot	uInt16
iport	uInt16
grp	IPaddrN
reason	String

IPMC.VSM.RemRecvrFmGrp

Description

This is a debug message which indicates that the specified receiver is being removed from the group.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

Port `%mslot%:%mport%` `%reason%`, removing receiver `%rslot%:%rport%` from VLAN `%vlan%`, group `%grp%`

Message Parameters

Name	Type
mslot	uInt16
mport	uInt16
rslot	uInt16
rport	uInt16
vlan	String
grp	IPaddrN
reason	String

IPMC.VSM.RemMLAGIndxFmRtrPort

Description

This is a debug message which indicates that an MLAG index maintained in the specified router port is being deleted.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

MLAG port `%mslot%:%mport%` `%reason%`, removing MLAG index `%mlag%` from router port `%rslot%:%rport%`

Message Parameters

Name	Type
mslot	uInt16
mport	uInt16
mlag	uInt16
rslot	uInt16
rport	uInt16
reason	String

IPMC.VSM.StrtFastAgeOut

Description

This is a debug message which indicates that the specified router port, which is an ISC port, is being aged out faster. This is due to the fact that this port was added as router port when V3 receivers are present on an MLAG port whose state changed to DOWN. When the MLAG port changes to UP (or remote MLAG port state changes to DOWN) again, such a router port will be aged out faster to avoid unnecessary traffic over the ISC.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Summary

Message Text

MLAG port `%mslot%:%mport%` `%reason%`, fast aging started for router port `%rslot%:%rport%`

Message Parameters

Name	Type
mslot	uInt16
mport	uInt16
rslot	uInt16
rport	uInt16
reason	String

IPMC.VSM.GetISCIndxFail

Description

This message indicates that an attempt to get the ISC index from VSM has failed.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Unable to get ISC Index for MLAG `%mlag%`, Error = `%err%`

Message Parameters

Name	Type
mlag	uInt16
err	sInt

IPMC.VSM.IgnRecvr

Description

This is a debug message which indicates that a receiver is being ignored and not removed since it has snooped reports directly on the port.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

Direct reports exist, ignoring receiver `%rslot%`:`%rport%`, for VLAN `%vlan%`, group `%grp%`

Message Parameters

Name	Type
rslot	uInt16
rport	uInt16
vlan	String
grp	IPaddrN

IPMC.VSM.SendQuery

Description

This is a debug message which indicates that an IGMP query message is being sent on the specified VLAN.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

Sending query for VLAN `%vlan%`

Message Parameters

Name	Type
vlan	String

IPMC.VSM.LeakIGMPGrp

Description

This is a debug message which indicates that IGMP group information is being leaked on to ISC port because a local MLAG port has gone DOWN.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

MLAG port `%mslot%:%mport%` down, leaking group `%grp%` on ISC port `%islot%:%iport%`

Message Parameters

Name	Type
mslot	uInt16
mport	uInt16
grp	IPN
islot	uInt16
iport	uInt16

IPMC.VSM.AllocMLAGNodeFail

Description

This message indicates that an attempt to allocate memory for an MLAG node has failed.

Remedy

Check the system parameters and scale down the configuration if necessary.

Severity

Error

Message Text

Unable to allocate mlagNode

IPMC.VSM.AddMLAGIndxToISC

Description

This is a debug message which indicates that an MLAG index is being added to an ISC receiver. This will happen when an MLAG port goes DOWN and groups from such a port are leaked on to the corresponding ISC port. To indicate that the ISC receiver has groups leaked from MLAG port, the MLAG index will be added to the receiver.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

MLAG port `%mslot%:%mport%` down, adding MLAG index `%mlag%` to ISC `%islot%:%iport%` for group `%grp%`

Message Parameters

Name	Type
mlag	uInt16
mslot	uInt16
mport	uInt16
islot	uInt16
iport	uInt16
grp	IPaddrN

IPMC.VSM.FndISCRecvrFail

Description

This message indicates that an attempt to find the ISC receiver for the specified group in the given VLAN has failed.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

ISC receiver not found for VLAN `%vlan%`, group `%grp%`, ISC `%islot%:%iport%`

Message Parameters

Name	Type
vlan	String
grp	IPaddrN
islot	uInt16
iport	uInt16

IPMC.VSM.FndGrpFail

Description

This message indicates that an attempt to find a group in the specified VLAN has failed.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Group `%grp%` not found for VLAN `%vlan%`

Message Parameters

Name	Type
vlan	String
grp	IPaddrN

IPMC.VSM.AddISCRtrPort

Description

This is a debug message which indicates that the specified ISC port is being added as a router port. This will happen when an MLAG port goes DOWN and there are V3 receivers on that port. To ensure that traffic goes to such receivers through the remote switch, ISC port will be added as a router port (if not already added).

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Summary

Message Text

MLAG port `%mslot%:%mport%` down, adding ISC port `%islot%:%iport%` as router port for group `%grp%`

Message Parameters

Name	Type
mslot	uInt16
mport	uInt16
islot	uInt16
iport	uInt16
grp	IPaddrN

IPMC.VSM.FndMLAGPortFail

Description

This message indicates that an attempt to find the specified MLAG port in the given VLAN has failed.

Remedy

Check the configuration and ensure that MLAG port is part of the specified vlan. Also make sure that the IPMC configuration on MLAG peer switches is consistent. On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Unable to find MLAG port for VLAN `%vlan%`, port `%mslot%:%mport%`

Message Parameters

Name	Type
vlan	String
mslot	uInt16
mport	uInt16

IPMC.VSM.ISCPortInstcChg

Description

This is a debug message that indicates that the port instance corresponding to the given ISC has changed and all groups that have been learned or leaked on old ISC port are being moved to the new port.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Snooping group `%grp%` on new ISC port `%nslot%:%nport%`, old ISC port `%oslot%:%oport%`, VLAN `%vlan%`

Message Parameters

Name	Type
grp	IPaddrN
nslot	uInt16
nport	uInt16
oslot	uInt16
oport	uInt16
vlan	String

IPMC.VSM.FndRecvrFail

Description

This message indicates that an attempt to find a receiver for the specified group has failed.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Debug-Data

Message Text

Receiver `%rslot%:%rport%` not found for group `%grp%`, VLAN `%vlan%`

Message Parameters

Name	Type
rslot	uInt16
rport	uInt16
grp	IPaddrN
vlan	String

IPMC.VSM.UpdtRmnRecvrTime

Description

This is a debug message which indicates that the remaining time for the specified receiver is being updated.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Updating remaining time as `%time%` for receiver `%rslot%:%rport%`

Message Parameters

Name	Type
time	sInt
rslot	uInt16
rport	uInt16

IPMC.VSM.UpdtRmnGrpTime

Description

This is a debug message which indicates that the remaining time for the specified group is being updated.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Updating group time as `%time%` for group `%grp%`

Message Parameters

Name	Type
time	sInt
grp	IPaddrN

IPMC.VSM.IgnLeaveMsg

Description

This is a debug message which indicates that an IGMP leave message received for an ISC port is being ignored. This will be the case when a checkpointed leave message is received for the ISC port and the ISC port has leaked groups from local MLAG ports which are down.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

Ignoring IGMP Leave on ISC port `%islot%`:`%iport%`, MLAG ID list non-NULL

Message Parameters

Name	Type
islot	uInt16
iport	uInt16

IPMC.VSM.SnoopLeaveOnISC

Description

This is a debug message which indicates that a checkpointed IGMP leave message is being snooped on local ISC port.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

Snooping IGMP Leave on ISC Port `%islot%:%iport%`

Message Parameters

Name	Type
islot	uInt16
iport	uInt16

IPMC.VSM.LeakIGMPLeave

Description

This is a debug message which indicates that a checkpointed IGMP leave message is being leaked on the local ISC port since the specified MLAG port is down.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

Leaking IGMP Leave on ISC port `%islot%:%iport%` for MLAG `%mlag%`

Message Parameters

Name	Type
islot	uInt16
iport	uInt16
mlag	uInt16

IPMC.VSM.FndISCPortFail

Description

This message indicates that an attempt to find an ISC port while leaking IGMP leave messages has failed.

Remedy

Check the configuration on MLAG peer switches and ensure that it is consistent. Specifically check the IPMC configuration related to MLAG. On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

ISC port not found for VLAN `%vlan%`, ignore checkpoint message

Message Parameters

Name	Type
vlan	String

IPMC.VSM.LeakIGMPJoin

Description

This is a debug message which indicates that a checkpointed IGMP join message is being leaked on the local ISC port since the specified MLAG port is down.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

Leaking IGMP join on local ISC port `%islot%:%iport%`

Message Parameters

Name	Type
islot	uInt16
iport	uInt16

IPMC.VSM.IgnCkptMsgPortStateUnk

Description

This is a debug message which indicates that a checkpoint message included group information which had a port whose state is unknown and such a group is not being processed

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

Ignore Checkpoint message, local port state unknown for portId `%port%`

Message Parameters

Name	Type
port	uInt16

IPMC.VSM.PortInstcInv

Description

This message indicates that a received checkpoint message included a port whose instance is invalid on the local switch.

Remedy

This kind of problems could arise due to erroneous configuration. Check IPMC configuration related to MLAG on the peer switches and ensure that it is consistent.

Severity

Error

Message Text

Invalid port instance for ID `%port%`

Message Parameters

Name	Type
port	uInt16

IPMC.VSM.SnoopIGMPMsg

Description

This is a debug message which indicates that a checkpointed IGMP message is being snooped on local port.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

Snooping IGMP message on VLAN `%vlan%`, port `%slot%:%port%`

Message Parameters

Name	Type
vlan	String
slot	uInt16
port	uInt16

IPMC.VSM.GetCurTime

Description

This is a debug message which indicates the current remaining time for the specified receiver.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Current time `%time%` for VLAN `%vlan%`, group `%grp%`, port `%slot%:%port%`

Message Parameters

Name	Type
time	sInt
vlan	String
grp	IPaddrN
slot	uInt16
port	uInt16

IPMC.VSM.IgnCkptMsgISCPortDown

Description

This is a debug message which indicates that the received checkpoint message is being ignored since the message is received on an ISC port whose state is down.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Local ISC port `%islot%`:`%iport%` down, ignoring checkpoint message

Message Parameters

Name	Type
islot	uInt16
iport	uInt16

IPMC.VSM.IgnCkptMsgPortInv

Description

This is a debug message which indicates that the received checkpoint message is being ignored since the message is received on a port which does not belong to the specified VLAN.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Port `%slot%`:`%port%` not found for VLAN `%vlan%`, ignoring checkpoint message

Message Parameters

Name	Type
slot	uInt16
port	uInt16
vlan	String

IPMC.VSM.FndVLANFail

Description

This is a debug message which indicates that the received checkpoint message included information relating to a VLAN and an attempt to find such a VLAN on the local switch failed.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Summary

Message Text

VLAN not found for vlanId `%vlanId%`, portId `%portId%`, iscIdx `%isc%`

Message Parameters

Name	Type
vlanId	uInt16
portId	uInt16
isc	uInt16

IPMC.VSM.SnoopIGMPV3Msg

Description

This is debug message which indicates that a received checkpoint message included IGMP V3 information and that is being snooped on a local port.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Snooping V3 Report on VLAN `%vlan%`, port `%port%`, ISC `%isc%`

Message Parameters

Name	Type
vlan	String
port	uInt16
isc	uInt16

IPMC.VSM.ProcPullMsg

Description

This is a debug message which indicates that a PULL message is received from the peer and is being processed.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Verbose

Message Text

PULL message received for VLAN `%vlan%`, portId `%port%`, skipMlag `%skip%`

Message Parameters

Name	Type
vlan	uInt16
port	uInt16
skip	uInt16

IPMC.VSM.IgnCkptMsgUnkOwner

Description

This message indicates that the received checkpoint message is being ignored since the owner field in the packet header is not valid.

Remedy

Ensure the EXOS versions on the M-LAG peers are compatible. One of the M-LAG may require an upgrade to a more recent version of EXOS.

Severity

Debug-Data

Message Text

Ignore checkpoint message with invalid owner, role = `%role%`

Message Parameters

Name	Type
role	uInt8

IPMC.VSM.SkipRecvrRmtStateUnk

Description

This is a debug message which indicates that a particular MLAG receiver is being skipped since the remote port state for the MLAG is unknown.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Remote state unknown for MLAG `%mlag%`, receiver not added

Message Parameters

Name	Type
mlag	uInt16

IPMC.VSM.AllocCkptMsgFail

Description

This message indicates that an attempt to allocate a buffer to hold the checkpoint message has failed..

Remedy

Check the system parameters and scale down the configuration if required.

Severity

Error

Message Text

Failed to allocate checkpoint message buffer for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.AddPullMsg

Description

This is a debug message which indicates that a PULL message is being added to the checkpoint message.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Adding PULL message for ISC `%isc%`, VLAN `%vlan%`, port `%port%`, skip `%skip%`

Message Parameters

Name	Type
isc	uInt16
vlan	String
port	uInt16
skip	uInt16

IPMC.VSM.IgnStaticRecvr

Description

This is a debug message which indicates that a static receiver is being ignored and not added to the checkpoint message.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Ignoring static receiver `%rslot%:%rport%` for group `%grp%` on VLAN `%vlan%`

Message Parameters

Name	Type
rslot	uInt16
rport	uInt16
grp	IPaddrN
vlan	String

IPMC.VSM.SkipAddMsgISCDown

Description

This is a debug message which indicates that the specified group information is not added to the checkpoint message since the ISC port is down.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Not adding group `%grp%` received on port `%slot%:%port%` on VLAN `%vlan%` to checkpoint buffer, ISC `%isc%` is down

Message Parameters

Name	Type
isc	uInt16
slot	uInt16
port	uInt16
grp	IPaddrN
vlan	String

IPMC.VSM.SkipAddV3MsgISCDown

Description

This is a debug message which indicates that IGMP V3 information is not added to the checkpoint message since the ISC port is down.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Not adding IGMP V3 information to checkpoint buffer, ISC `%isc%` is down

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.SkipAddV3MsgRmtStateUnk

Description

This is a debug message which indicates that information from received IGMP V3 message is not added to the checkpoint message sincce the ISC port is down.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Remote state unknown for MLAG `%mlag%`, skipping V3 message add to checkpoint buffer

Message Parameters

Name	Type
mlag	uInt16

IPMC.VSM.SkipBulkCkptISCPortDown

Description

This is a debug message which indicates that a bulk checkpoint is skipped since the ISC port is down.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

ISC is not Up, skipping bulk checkpoint for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.StrtCkpt

Description

This is a debug message which indicates that bulk checkpoint has started for the specified VLAN.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Data

Message Text

Start Checkpoint for ISC `%isc%`, VLAN `%vlan%`, MLAG `%mlag%`

Message Parameters

Name	Type
isc	uInt16
vlan	String
mlag	uInt16

IPMC.VSM.FndVPifFail

Description

This is a debug message which indicates that an attempt to find a VPIF based on the given vlan-id and port-id information has failed.

Remedy

This is an informational message and no remedy is required.

Severity

Debug-Summary

Message Text

ISC Vpif not found for vlanInst `%vinst%`, ISC portInst `%pinst%`

Message Parameters

Name	Type
vinst	uInt32
pinst	uInt32

IPMC.VSM.LeakMLDJoin

Description

This is a debug message which indicates that a checkpointed MLD join message is being leaked on the local ISC port since the specified MLAG port is down.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Leaking MLD join on local ISC port `%islot%:%iport%`

Message Parameters

Name	Type
islot	uInt16
iport	uInt16

IPMC.VSM.LeakMLDGrp

Description

This is a debug message which indicates that MLD group information is being leaked on the local ISC port since the specified MLAG port is down.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

MLAG port `%mslot%:%mport%` down, leaking group `%grp%` on ISC port `%islot%:%iport%`

Message Parameters

Name	Type
mslot	uInt16
mport	uInt16
grp	IPv6
islot	uInt16
iport	uInt16

IPMC.VSM.SnoopMLDLeaveOnISC

Description

This is a debug message which indicates that a checkpointed MLD leave message is being snooped on local ISC port.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Snooping MLD Leave on ISC Port `%islot%:%iport%`

Message Parameters

Name	Type
islot	uInt16
iport	uInt16

IPMC.VSM.LeakMLDLeave

Description

This is a debug message which indicates that a checkpointed MLD leave message is being leaked on the local ISC port since the specified MLAG port is down.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Leaking MLD Leave on ISC port `%islot%:%iport%` for MLAG `%mlag%`

Message Parameters

Name	Type
islot	uInt16
iport	uInt16
mlag	uInt16

IPMC.VSM.SnoopMLDMsg

Description

This is a debug message which indicates that a checkpointed MLD message is being snooped on local port.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Snooping MLD message on VLAN `%vlan%`, port `%slot%:%port%`

Message Parameters

Name	Type
vlan	VLAN
slot	uInt16
port	uInt16

IPMC.VSM.SnoopMLDv2Msg

Description

This is debug message which indicates that a received checkpoint message included MLDv2 information and that is being snooped on a local port.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Snooping MLDv2 Report on VLAN `%vlan%`, port `%port%`, ISC `%isc%`

Message Parameters

Name	Type
vlan	VLAN
port	uInt16
isc	uInt16

IPMC.VSM.SkipAddMLDv2MsgISCDown

Description

This is a debug message which indicates that MLDv2 information is not added to the checkpoint message since the ISC port is down.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Not adding MLDv2 information to checkpoint buffer, ISC `%isc%` is down

Message Parameters

Name	Type
isc	uInt16

IPMC.VSM.SkipAddMLDv2RmtStateUnk

Description

This is a debug message which indicates that information from received MLDv2 message is not added to the checkpoint message since the MLAG peer state is unknown.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Remote state unknown for MLAG `%mlag%`, skipping MLDv2 message add to checkpoint buffer

Message Parameters

Name	Type
mlag	uInt16

IPMC.VSM.SendMLDQuery

Description

This is a debug message which indicates that an MLD query message is being sent on the specified VLAN.

Remedy

This is an informational message and no remedy is required.

Severity

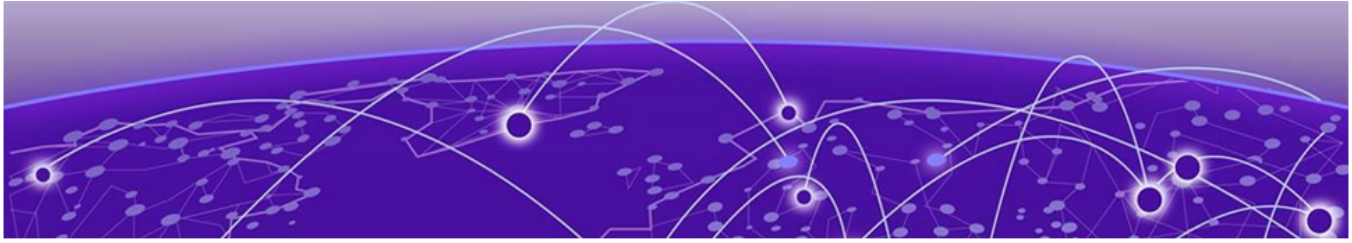
Debug-Verbose

Message Text

Sending MLD query for VLAN `%vlan%`

Message Parameters

Name	Type
vlan	String



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ipSecur.dhcpViol

Description

A rogue DHCP server packet was received.

Remedy

No remedy is available.

Severity

Warning

Message Text

A Rogue DHCP server on VLAN `%vlan%` with IP `%ipAddr%` was detected on port `%port%`

Message Parameters

Name	Type
ipAddr	IP
port	SlotPort
vlan	VLAN

ipSecur.arpViol

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

An ARP violation was detected on vlan `%vlan%` port `%port%` violating IP `%ipAddr%` violating MAC `%mac%` violation type `%violation%`

Message Parameters

Name	Type
vlan	String
port	SlotPort
ipAddr	IP
mac	MAC
violation	String

ipSecur.blkPort

Description

A DHCP or ARP violation has occurred due to which the ingress port on which the bad packet was received is being disabled.

Remedy

No remedy is available.

Severity

Warning

Message Text

`%violType%` violation occurred. Disabling port `%port%` `%duration%`

Message Parameters

Name	Type
violType	String
port	SlotPort
duration	String

ipSecur.blkMac

Description

A DHCP or ARP violation has occurred due to which the transgressor MAC is being blocked.

Remedy

No remedy is available.

Severity

Warning

Message Text

`%violType%` violation occurred. Blocking MAC `%mac%` `%duration%`

Message Parameters

Name	Type
violType	String
mac	MAC
duration	String

ipSecur.drpPkt

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

`%violType%` violation occurred on port `%port%`. Packet was dropped.

Message Parameters

Name	Type
violType	String
port	SlotPort

ipSecur.fdbLkup

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Doing FDB lookup for `%mac%` on vlan `%vlan%`

Message Parameters

Name	Type
mac	MAC
vlan	uInt

ipSecur.fdbCbk

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Got FDB callback for `%mac%` on vlan `%vlan%`

Message Parameters

Name	Type
mac	MAC
vlan	uInt

ipSecur.ipAnomaly

Description

Detect IP address anomaly: Sourec IP = Detination DIP

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

IP address anomaly detected on port `%inPort%` vlan `%vlanName%`: SMAC=`%smac%` DMAC=`%dmac%` SIP=`%sip%` DIP=`%dip%` `%info%`

Message Parameters

Name	Type
inPort	SlotPort
vlanName	String
smac	srcMAC
dmac	dstMAC
sip	String
dip	String
info	String

ipSecur.l4portAnomaly

Description

Detect L4 port anomaly: Source Port = Destination Port

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

L4 port anomaly detected on port `%inPort%` vlan `%vlanName%`: SMAC=`%smac%` DMAC=`%dmac%` SIP=`%sip%` DIP=`%dip%` SPORT=`%sport%` DPORT=`%dport%` `%info%`

Message Parameters

Name	Type
inPort	SlotPort
vlanName	String
smac	srcMAC
dmac	dstMAC
sip	String
dip	String
sport	L4port
dport	L4port
info	String

ipSecur.tcpFlagAnomaly

Description

Detect TCP flags anomaly:

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

TCP flags anomaly detected on port `%inPort%` vlan `%vlanName%`: SMAC=`%smac%` DMAC=`%dmac%` SIP=`%sip%` DIP=`%dip%` SPORT=`%sport%` DPORT=`%dport%` `%info%`

Message Parameters

Name	Type
inPort	SlotPort
vlanName	String
smac	srcMAC
dmac	dstMAC
sip	String
dip	String
sport	L4port
dport	L4port
info	String

ipSecur.tcpHeaderSizeAnomaly

Description

Detect TCP header size anomaly:

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

TCP Header size anomaly detected on port `%inPort%` vlan `%vlanName%`: SMAC=`%smac%` DMAC=`%dmac%` SIP=`%sip%` DIP=`%dip%` SPORT=`%sport%` DPORT=`%dport%` `%info%`

Message Parameters

Name	Type
inPort	SlotPort
vlanName	String
smac	srcMAC
dmac	dstMAC
sip	String
dip	String
sport	L4port
dport	L4port
info	String

ipSecur.tcpFragmentAnomaly

Description

Detect TCP header size anomaly:

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

TCP Header size anomaly detected on port `%inPort%` vlan `%vlanName%`: SMAC=`%smac%` DMAC=`%dmac%` SIP=`%sip%` DIP=`%dip%` `%info%`

Message Parameters

Name	Type
inPort	SlotPort
vlanName	String
smac	srcMAC
dmac	dstMAC
sip	String

Name	Type
dip	String
info	String

ipSecur.icmpAnomaly

Description

Detect ICMP anomaly:

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

ICMP anomaly detected on port `%inPort%` vlan `%vlanName%`: SMAC=`%smac%` DMAC=`%dmac%` SIP=`%sip%` DIP=`%dip%` `%info%`

Message Parameters

Name	Type
inPort	SlotPort
vlanName	String
smac	srcMAC
dmac	dstMAC
sip	String
dip	String
info	String

ipSecur.dataDump

Description

Data dumping

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%data%
```

Message Parameters

Name	Type
data	String

ipSecur.errorAnomaly

Description

protocol anomaly protection error message

Remedy

No remedy is available.

Severity

Error

Message Text

```
%error%
```

Message Parameters

Name	Type
error	String

ipSecur.infoAnomaly

Description

protocol anomaly protection infomation message

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%info%
```

Message Parameters

Name	Type
info	String

ipSecur.debugAnomaly

Description

protocol anomaly protection debugging message

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%debug%
```

Message Parameters

Name	Type
debug	String

ipSecur.secArpAdd

Description

A Secure ARP entry was added.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Secure ARP entry for IP `%ipAddr%`, MAC `%mac%` added on vlan `%vlan%`

Message Parameters

Name	Type
ipAddr	IP
mac	MAC
vlan	VLAN

ipSecur.secArpDel

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Secure ARP entry for IP `%ipAddr%`, MAC `%mac%` deleted from vlan `%vlan%`

Message Parameters

Name	Type
ipAddr	IP
mac	MAC
vlan	VLAN

ipSecur.srcIpLockedDown

Description

The Source IP was locked down on the port

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Src IP `%ipAddr%` locked down on port `%port%`

Message Parameters

Name	Type
ipAddr	IP
port	SlotPort

ipSecur.srcIpUnlocked

Description

A locked down IP was removed from the port

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Src IP Lockdown for `%ipAddr%` removed from port `%port%`

Message Parameters

Name	Type
ipAddr	IP
port	SlotPort

ipSecur.dhcpLeaseExpired

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Lease recently expired for client with IP `%ipAddr%`, MAC `%mac%`. Deleting its entry from DHCP database.

Message Parameters

Name	Type
ipAddr	IP
mac	MAC

ipSecur.opt82ClientPktDropped

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

DHCP client packet containing option 82 dropped. Source MAC=%macSA% vlan=%vlan% port=%port%

Message Parameters

Name	Type
macSA	MAC
vlan	VLAN
port	SlotPort

ipSecur.opt82CheckFailed

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

DHCP server packet containing option 82 failed check and was dropped. Source MAC=%macSA% vlan=%vlan% port=%port%

Message Parameters

Name	Type
macSA	MAC
vlan	VLAN
port	SlotPort

ipSecur.dhcpBindingAddRefresh

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

DHCP binding IP `%ip%` MAC `%mac%` added or refreshed successfully

Message Parameters

Name	Type
ip	IP
mac	MAC

ipSecur.bindingsUploadIP

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Successfully uploaded bindings file `%filename%` to server `%ip%`

Message Parameters

Name	Type
ip	IP
filename	String

ipSecur.bindingsUploadHostname

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Successfully uploaded bindings file `%filename%` to server `%hostname%`

Message Parameters

Name	Type
hostname	String
filename	String

ipSecur.bindingsDownloadIP

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Successfully downloaded bindings file `%filename%` from server `%ip%`

Message Parameters

Name	Type
ip	IP
filename	String

ipSecur.bindingsDwnldHstnam

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Successfully downloaded bindings file `%filename%` from server `%hostname%`

Message Parameters

Name	Type
hostname	String
filename	String

ipSecur.bindingsUploadIPFail

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Upload of bindings file `%filename%` to server `%ip%` failed

Message Parameters

Name	Type
ip	IP
filename	String

ipSecur.bindingsUpldHstnamFail

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Upload of bindings file `%filename%` to server `%hostname%` failed

Message Parameters

Name	Type
hostname	String
filename	String

ipSecur.bindingsDownloadIPFail

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Download of bindings file `%filename%` from server `%ip%` failed

Message Parameters

Name	Type
ip	IP
filename	String

ipSecur.bindingsDwnldHstnamFail

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Download of bindings file `%filename%` from server `%hostname%` failed

Message Parameters

Name	Type
hostname	String
filename	String

ipSecur.fdbLkupFail

Description

FDB lookup failed to fetch client port for the MAC on the VLAN since FDB is not learnt while handling source IP lockdown.

Remedy

This is a rare internal condition needing technical assistance. Contact Technical Support with the following information: a) output from "show tech" command and b) output from "show fdb" command.

Severity

Notice

Message Text

FDB lookup for `%mac%` on vlan `%vlan%` failed after `%numAttempts%` attempts.

Message Parameters

Name	Type
mac	MAC
vlan	String
numAttempts	uInt8

ipSecur.UpldBindEntClntPortMiss

Description

The binding entry without client port information for MAC on the VLAN could not be uploaded.

Remedy

No action required - Informational message only.

Severity

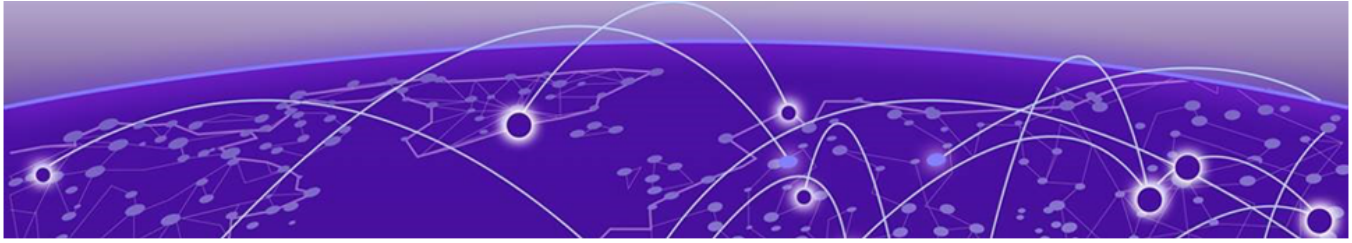
Info

Message Text

Upload Binding Entry Client Port Missing for `%mac%` on VLAN `%vlan%`.

Message Parameters

Name	Type
mac	MAC
vlan	String



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ISIS.DebugSummary

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%fmt%
```

Message Parameters

Name	Type
fmt	Printf

ISIS.IlvlUpd

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.RchMap

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.RchInfParam

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.RchInfMap

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.RchInfDel

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.RchInfUpd

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.ISRchMap

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

ISIS.NoISIS

Description

ISIS was not initialized properly on the specified VR

Remedy

Ensure the ISIS protocol was added to the specified VR. The VRID is displayed in the "show virtual-router" command. Try restarting the ISIS process in this VR. If the problem persists, capture "show tech" output and contact customer support.

Severity

Warning

Message Text

A key ISIS structure on VR `%VRID%` is missing

Message Parameters

Name	Type
VRID	uInt

ISIS.InitFail

Description

ISIS could not be started on the specified VR.

Remedy

This indicates that the switch is running low on memory resources. Reducing the size or complexity of the switch configuration may alleviate this issue. The ISIS process will need to be restarted. If the problem persists capture "show tech" output and contact customer support.

Severity

Warning

Message Text

ISIS failed to initialize on VR `%VRName%` VRID `%VRID%` error code `%errCode%`

Message Parameters

Name	Type
VRID	uInt
VRName	String
errCode	uInt

ISIS.LockInitFail

Description

ISIS could not create and initialize the specified thread lock. The process failed to start as a result.

Remedy

This indicates that the switch is running low on memory resources. Reducing the size or complexity of the switch configuration may alleviate this issue. The ISIS process will need to be restarted. If the problem persists capture "show tech" output and contact customer support.

Severity

Error

Message Text

ISIS failed to initialize thread lock: `%lockName%`

Message Parameters

Name	Type
lockName	String

ISIS.CLIAsyncFailVRNull

Description

An asynchronous CLI operation failed. ISIS is not running on the specified VRID.

Remedy

Capture "show tech" output and contact customer support.

Severity

Error

Message Text

Async CLI `%operation%` operation could not be performed on VRID `%VRID%`, missing VR structure

Message Parameters

Name	Type
operation	String
VRID	uInt

ISIS.CLIAsyncFailMstrNull

Description

An asynchronous CLI operation failed. ISIS is not running on the specified VRID.

Remedy

Capture "show tech" output and contact customer support.

Severity

Error

Message Text

Async CLI `%operation%` operation could not be performed on VRID `%VRID%`, missing master structure

Message Parameters

Name	Type
operation	String
VRID	uInt

ISIS.CLIAsyncExpCntxtNull

Description

An operation requiring asynchronous CLI communication timed out. Further action could not be taken due to missing information.

Remedy

Capture "show tech" output and contact customer support.

Severity

Error

Message Text

Asynch CLI request timer expired but is missing context

ISIS.CLIAsyncAllocFail

Description

An operation requiring asynchronous CLI communication could not be performed due to lack of memory resources.

Remedy

This is a symptom of low memory resources. A reduction in configuration size or complexity may be required to carry out the operation.

Severity

Error

Message Text

Asynch CLI request failed due to lack of memory

ISIS.TermStrt

Description

ISIS has been instructed to shutdown and has begun the process of doing so.

Remedy

None. This is an informational message.

Severity

Notice

Message Text

ISIS has begun shutting down

ISIS.TermDone

Description

ISIS has been instructed to shutdown and has completed the process of doing so.

Remedy

None. This is an informational message.

Severity

Notice

Message Text

ISIS has completed shutting down

ISIS.ClientInitFail

Description

The ISIS process could not initialize a client for the specified EXOS services.

Remedy

Timing conditions during boot may cause some attempts to fail, in which case the process will generally re-attempt initialization. If the services initialization continues to fail, the ISIS process or the module providing the services may nee to be restarted or the switch rebooted. If the problem persists, gather "show tech" output and contact customer support.

Severity

Warning

Message Text

Client initialization for `%service%` services failed

Message Parameters

Name	Type
service	String

ISIS.IfsNotFwd

Description

An isis area has been enabled but has no interfaces associated with it that is forwarding.

Remedy

In order for an isis routing instance to do something meaningful, it should have at least one forwarding interface added to it.

Severity

Info

Message Text

Warning: No IP interface bound to area `%area%` is enabled for IP forwarding

Message Parameters

Name	Type
area	String

ISIS.IPv4IfNotFwd

Description

The specified interface is not performing IPv4 forwarding. Until forwarding is enabled, this interface will not send or receive ISIS PDUs, nor will its IPv4 address be advertised in ISIS.

Remedy

Enable IPv4 forwarding on the specified interface in order for it to participate in ISIS.

Severity

Info

Message Text

IPv4 interface `%name%` is not in forwarding mode

Message Parameters

Name	Type
name	String

ISIS.IPv6IfNotFwd

Description

The specified interface is not performing IPv6 forwarding. Until forwarding is enabled, this interface will not send or receive ISIS PDUs, nor will its IPv6 address be advertised in ISIS.

Remedy

Enable IPv6 forwarding on the specified interface in order for it to participate in ISIS.

Severity

Info

Message Text

IPv6 interface `%name%` is not in forwarding mode

Message Parameters

Name	Type
name	String

ISIS.DelFDBFail

Description

An FDB resource for the specified MAC/VLANID pair could not be freed. This may indicate a problem with switch infrastructure or the ability to deprogram hardware.

Remedy

The consequence of this event is that there is likely an FDB entry left in hardware for one of the ISIS L2 multicast MAC DAs. It is possible this entry might be freed if the VLAN associated with the operation is added back to ISIS and deleted again. If the error persists, a reboot is required to free the resource. If this problem persists, capture "show tech" output and contact customer support.

Severity

Warning

Message Text

FDB deletion for `%mac%` on VLAN tag `%vid%` failed

Message Parameters

Name	Type
mac	MAC
vid	VLAN-tag

ISIS.AddFDBFail

Description

An FDB resource for the specified MAC/VLANID pair could not be added. This may indicate a problem with switch infrastructure or the ability to deprogram hardware. It could also indicate that hardware resources are full.

Remedy

Remove the specified interface from ISIS and re-add it. If the log appears again, there may not be sufficient resources on the switch to include this interface in ISIS.

Severity

Warning

Message Text

FDB addition for `%mac%` on VLAN tag `%vid%` failed

Message Parameters

Name	Type
mac	MAC
vid	VLAN-tag

ISIS.BndMACFiltFail

Description

A filter could not be created for the specified MAC/VLANID pair. The ISIS interface with the specified VLAN ID will be unable to receive ISIS PDUs destined to the specified MAC as a result.

Remedy

This could indicate that the system is low on resources or that it is too busy to perform the filter bind operation. Delete the interface from ISIS and re-add it. If the problem persists, capture "show tech" output and contact customer support.

Severity

Warning

Message Text

Failed to bind MAC filter `%mac%` to vlan `%vid%`

Message Parameters

Name	Type
mac	MAC
vid	VLAN-tag

ISIS.UnbndMACFiltFail

Description

A filter could not be removed for the specified MAC/VLANID pair. This is likely due to the filter not being present in the kernel to begin with. As a result, this event will likely accompany the deletion of an ISIS interface that, when added to ISIS, triggered the BndMACFiltFail event.

Remedy

Rebooting the switch may be necessary as this may be indicative of a kernel database or resource problem. If the problem persists, gather "show tech" output and contact customer suppport.

Severity

Warning

Message Text

Failed to unbind MAC filter `%mac%` from vlan `%vid%`

Message Parameters

Name	Type
mac	MAC
vid	VLAN-tag

ISIS.InitSockFail

Description

An internal error has prevented ISIS from initializing its communications sockets.

Remedy

ISIS will fail to start under these conditions and may need to be restarted. The switch may need to be rebooted.

Severity

Error

Message Text

Socket initialization failed while trying to `%oper%`, with error: `%errmsg%`

Message Parameters

Name	Type
oper	String
errmsg	String

ISIS.CreatMACFiltFail

Description

A filter for the specified MAC address could not be created. The accompanying error message may provide more specifics as to why.

Remedy

ISIS will fail to start under these conditions and may need to be restarted. The switch may need to be rebooted.

Severity

Error

Message Text

Failed to create MAC filter for `%mac%`, error: `%errmsg%`

Message Parameters

Name	Type
mac	MAC
errmsg	String

ISIS.DelMACFiltFail

Description

A filter for the specified MAC address could not be deleted. The accompanying error message may provide more specifics as to why.

Remedy

None. This is an informational message only.

Severity

Info

Message Text

Failed to delete MAC filter for `%mac%`, error: `%errmsg%`

Message Parameters

Name	Type
mac	MAC
errmsg	String

ISIS.BndMACFiltInitNotDone

Description

A MAC filter could not be bound to a VLAN. Process initialization did not complete properly.

Remedy

Restart the ISIS process. If the message still appears, gather "show tech" output and contact customer support.

Severity

Error

Message Text

Failed to bind filter - initialization did not complete

ISIS.BndMACFiltReqFail

Description

An internal error occurred while attempting to bind a MAC to a VLAN. The accompanying error message text may provide more details as to the cause.

Remedy

This could indicate that the system is low on resources or that it is too busy to perform the filter bind operation. Delete the interface from ISIS and re-add it. If the problem persists, capture "show tech" output and contact customer support.

Severity

Error

Message Text

Request for MAC filter binding failed with error: `%errmsg%`

Message Parameters

Name	Type
errmsg	String

ISIS.UnbndMACFiltInitNotDone

Description

A MAC filter could not be unbound from a VLAN. Prior initialization did not complete properly.

Remedy

Restart the ISIS process. If the message still appears, gather "show tech" output and contact customer support.

Severity

Error

Message Text

Failed to unbind filter - initialization did not complete

ISIS.UnbndMACFiltReqFail

Description

An internal error occurred while attempting to unbind a MAC to a VLAN. The accompanying error message text may provide more details as to the cause. This is likely due to the filter not being present in the kernel to begin with. As a result, this event will likely accompany the deletion of an ISIS interface that, when added to ISIS, triggered the BndMACFiltReqFail event.

Remedy

Rebooting the switch may be necessary as this may be indicative of a kernel database or resource problem. If the problem persists, gather "show tech" output and contact customer suppport.

Severity

Error

Message Text

Request for MAC filter unbinding failed with error: `%errmsg%`

Message Parameters

Name	Type
errmsg	String

ISIS.PollSockFail

Description

An internal error occurred while polling on a socket for activity. The accompanying error message may provide more specific information.

Remedy

ISIS may need to be restarted or the switch rebooted. If the problem persists, gather "show tech" output and contact customer support.

Severity

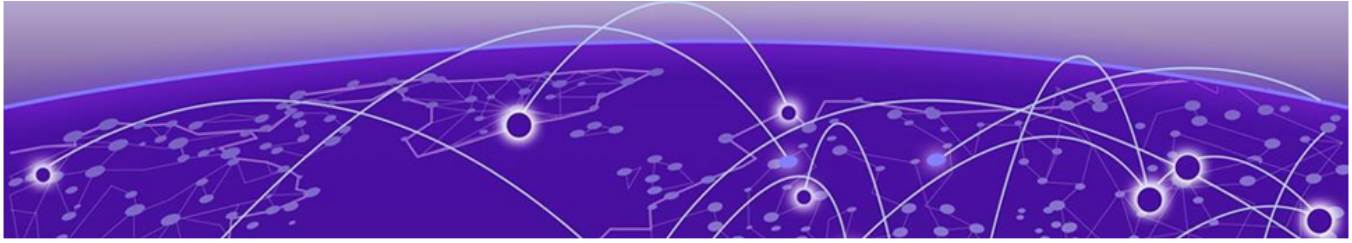
Warning

Message Text

Socket %oper% poll failed with error %errmsg%

Message Parameters

Name	Type
oper	String
errmsg	String



ISIS.Export Messages

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ISIS.Export.ChgIPv4RtType on page 2690
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ISIS.Export.IfStart

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Export.IfAdd

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Export.IfDel

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Export.IfNotify

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Export.IfReg

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Export.UpdtMapDebug

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Export.UpdtIPv4

Description

A redistribution/export change has taken place and the specified action was taken on the specified prefix.

Remedy

None. This is a debug message only.

Severity

Debug-Summary

Message Text

`%level%: %action% %addr% / %maskLen%`

Message Parameters

Name	Type
level	String
action	String
addr	IP
maskLen	uInt8

ISIS.Export.UpdtIPv6

Description

A redistribution/export change has taken place and the specified action was taken on the specified prefix.

Remedy

None. This is a debug message only.

Severity

Debug-Summary

Message Text

`%level%: %action% %addr% / %maskLen%`

Message Parameters

Name	Type
level	String
action	String

Name	Type
addr	IPv6
maskLen	uInt8

ISIS.Export.ChgIPv4RtType

Description

The specified redistributed prefix changed route origin.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

redistribute: prefix `%addr%` / `%maskLen%` type changed `%oldType%` -> `%newType%`

Message Parameters

Name	Type
addr	IP
maskLen	uInt8
oldType	xInt8
newType	xInt8

ISIS.Export.ChgIPv6RtType

Description

The specified redistributed prefix changed route origin.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

redistribute: prefix `%addr%` / `%maskLen%` type changed `%oldType%` -> `%newType%`

Message Parameters

Name	Type
addr	IPv6
maskLen	uInt8
oldType	xInt8
newType	xInt8

ISIS.Export.DelIPv4NoExist

Description

The specified redistributed route was requested to be deleted, but it couldn't be found so the request was ignored.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

redistribute type `%type%`: delete prefix `%addr%` / `%maskLen%` - doesn't exist, ignoring

Message Parameters

Name	Type
addr	IP
maskLen	uInt8
type	xInt8

ISIS.Export.DelIPv6NoExist

Description

The specified redistributed route was requested to be deleted, but it couldn't be found so the request was ignored.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

redistribute type `%type%`: delete prefix `%addr%` / `%maskLen%` - doesn't exist, ignoring

Message Parameters

Name	Type
addr	IPv6
maskLen	uInt8
type	xInt8

ISIS.Export.WalkRtTypeAllocFail

Description

ISIS could not initiate a route walk for the specified protocol. As a result, export of the specified protocol may not work properly.

Remedy

This is a symptom of low system memory resources. A less complex or scaled configuration may be necessary in order to enable exporting of the specified protocol. Reduce the configuration to free up resources, then disable and re-enable exporting of this protocol.

Severity

Error

Message Text

failed to allocate route walk structure for route type `%proto%`

Message Parameters

Name	Type
proto	String

ISIS.Export.WalkRtTypeReqFail

Description

ISIS could not initiate a route walk for the specified protocol. As a result, export of the specified protocol may not work properly.

Remedy

This is a symptom of low system memory resources. A less complex or scaled configuration may be necessary in order to enable exporting of the specified protocol. Reduce the configuration to free up resources, then disable and re-enable exporting of this protocol.

Severity

Error

Message Text

failed to initiate request for route walk of route type `%proto%`

Message Parameters

Name	Type
proto	String

ISIS.Export.WalkRtTypeHndlDup

Description

A request for a route walk of the specified protocol succeeded, but the handle provided for the request already exists.

Remedy

Disable and re-enable the exporting of the protocol in question. If the event persists, gather "show tech" output and contact customer support.

Severity

Error

Message Text

duplicate route walk async handle for route type `%proto%`, handle `%hnd%`

Message Parameters

Name	Type
proto	String
hnd	xInt

ISIS.Export.RtTypeInv

Description

The specified route type could not be exported into ISIS. The route type was unrecognized.

Remedy

Disable and re-enable exporting for this protocol. If the problem persists, gather "show tech" output and contact customer support.

Severity

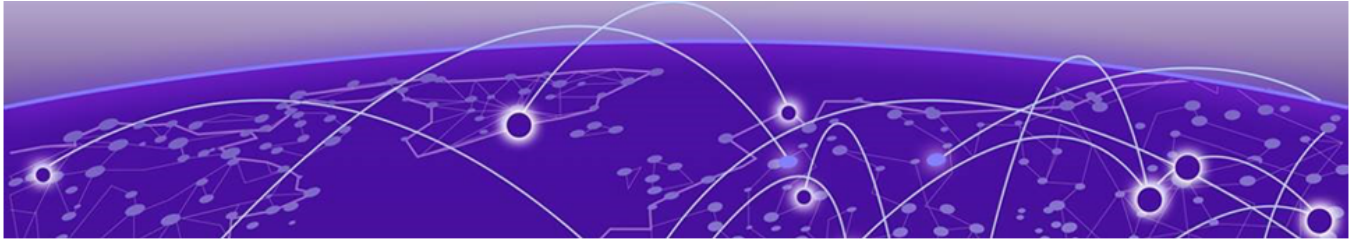
Error

Message Text

cannot export unrecognized route type `%rtType%` into ISIS

Message Parameters

Name	Type
rtType	uInt



ISIS.IFSM Messages

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ISIS.IFSM.DisElect on page 2699
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ISIS.IFSM.IfUp

Description

The specified interface has transitioned to up.

Remedy

None. This is an informational message that may be useful for monitoring interface state changes.

Severity

Info

Message Text

`%ifName%`: interface up

Message Parameters

Name	Type
ifName	String

ISIS.IFSM.IfDown

Description

The specified interface has transitioned to down.

Remedy

None.This is an informational message that may be useful for monitoring interface state changes.

Severity

Info

Message Text

`%ifName%`: interface down

Message Parameters

Name	Type
ifName	String

ISIS.IFSM.MaxCircIDExc

Description

A maximum of 255 circuit IDs is possible per ISIS protocol.The specified interface could not be enabled on the specified area as a result of exceeding this limit.

Remedy

Configure fewer interfaces on the specified area.

Severity

Warning

Message Text

Area `%areaName%`, interface `%ifName%`: Maximum number of circuit IDs (255) exhausted

Message Parameters

Name	Type
areaName	String
ifName	String

ISIS.IFSM.IfCircDown

Description

The specified circuit has transitioned to down.

Remedy

None. This is a debug message.

Severity

Debug-Summary

Message Text

`%ifName%`:L`%level%`: interface circuit down called

Message Parameters

Name	Type
ifName	String
level	uInt

ISIS.IFSM.HelloTimerExp

Description

The hello timer expired for the specified interface and level. A hello PDU is being sent as a result.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%ifName%:%level%`: Hello timer expire

Message Parameters

Name	Type
ifName	String
level	String

ISIS.IFSM.CSNPTimerExp

Description

The CSNP timer expired for the specified interface and level. A CSNP is being sent as a result.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%ifName%:%level%`: CSNP timer expire

Message Parameters

Name	Type
ifName	String
level	String

ISIS.IFSM.DisElect

Description

A DIS election has occurred on the specified interface and level, and the result of the election is specified in the message.

Remedy

None. This is an informational message that may be useful for monitoring ISIS broadcast adjacency establishment.

Severity

Info

Message Text

`%ifName%`:L`%level%`: DIS is now `%disId%`

Message Parameters

Name	Type
ifName	String
level	uInt
disId	String

ISIS.IFSM.IfDownRes

Description

In interface is going down as part of restart operation.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%ifName%:%level%`: restart interface down

Message Parameters

Name	Type
ifName	String
level	String

ISIS.IFSM.IgnEvent

Description

An event was ignored.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%ifName%:%level%`: event ignored

Message Parameters

Name	Type
ifName	String
level	String

ISIS.IFSM.StateChg

Description

A state change occured on the specified interface.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%ifName%:%level%`: state change `%oldState%` -> `%newState%`

Message Parameters

Name	Type
ifName	String
level	String
oldState	String
newState	String

ISIS.IFSM.ProcEvent

Description

The specified event occurred on the specified interface.

Remedy

None. This is an informational message only.

Severity

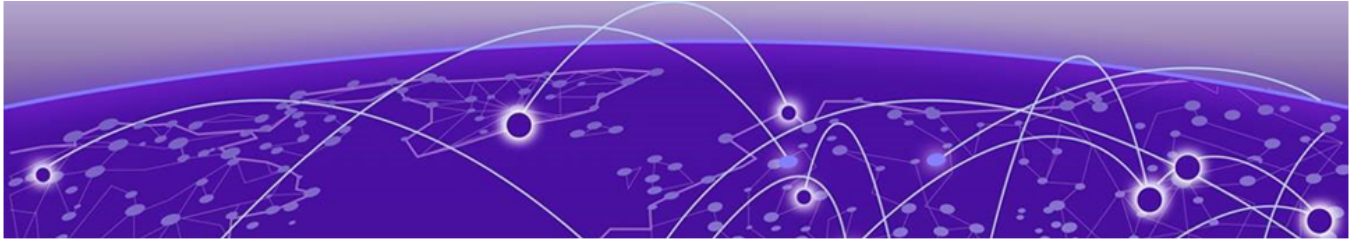
Debug-Summary

Message Text

`%ifName%:%level%`: `%state%` (`%event%`)

Message Parameters

Name	Type
ifName	String
level	String
state	String
event	String



ISIS.IIH Messages

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ISIS.IIH.RxAuthFail on page 2704
ISIS.IIH.RxCircIdNoMatch on page 2705
ISIS.IIH.RxCircTypeNoMatch on page 2706
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ISIS.IIH.RxAreaNoMatch on page 2707
ISIS.IIH.RxNoProto on page 2707
ISIS.IIH.RxProtoNoMatch on page 2708
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ISIS.IIH.RxIPv6IfNotFwd on page 2715

ISIS.IIH.RxSrcIdSame

Description

A Hello packet of the specifed type was received from a neigbor whose system ID is identical to the system ID assigned to the receiving switch.

Remedy

No IS-IS router in an IS-IS routing domain should have the same system ID configured. Either change the system ID of the receiving router or change the system ID of the transmitting router.

Severity

Warning

Message Text

`%pduType%` with same system ID from `%srcMac%` (`%vlanName%`)

Message Parameters

Name	Type
pduType	String
srcMac	srcMAC
vlanName	VLAN

ISIS.IIH.RxSrcIdNoMatch

Description

A Hello packet of the specified type was received from a neighbor whose system ID has changed. This check is only performed on point-to-point adjacencies.

Remedy

This is likely due to a change in configuration on the transmitting neighboring router. Hello packets will continue to be discarded until the adjacency is declared dead or until the system ID on the transmitting router is reverted.

Severity

Notice

Message Text

`%pduType%` system ID mismatch from `%srcMac%` (`%vlanName%`)

Message Parameters

Name	Type
pduType	String
srcMac	srcMAC
vlanName	VLAN

ISIS.IIH.RxMacNoMatch

Description

The MAC address of the specified neighbor changed.

Remedy

Check the configuration of the transmitting router(s) on this interface. It is possible that multiple routers are configured with the same system ID on this VLAN - which is illegal. If the change in MAC address is legitimate, the adjacency needs to time out. To expedite this, remove the interface from this router and re-add it. Note that this may result in a temporary blackhole.

Severity

Warning

Message Text

`%vlanName%-%sysId%` MAC address changed (`%srcMac%`)

Message Parameters

Name	Type
vlanName	VLAN
sysId	String
srcMac	srcMAC

ISIS.IIH.RxAuthFail

Description

A Hello PDU of the specified type either did not include an authentication TLV or included an authentication TLV but the password was incorrect.

Remedy

This error message may result from transitioning to different passwords in the topology. If the message persists and authentication is desired ensure the correct password has been configured on the neighboring routers. If authentication is not desired disable IIH authentication on this switch using the unconfigure area [area_name] area-password command.

Severity

Warning

Message Text

`%pduType%` authentication failure

Message Parameters

Name	Type
pduType	String

ISIS.IIH.RxCircIdNoMatch

Description

The circuit ID in the specified type of Hello PDU changed. The packet was discarded. This is applicable to point-to-point adjacencies only. This may occur after a neighboring switch reboots or has a process restart.

Remedy

If the messages persists, the adjacency should ultimately reset after the neighbor is timed out. During adjacency re-establishment, the new circuit ID will be learned and message will no longer appear. If for some reason the message continues, try removing the local interface from ISIS and adding it back. This effectively erases the neighbor table for that interface.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) circuit ID mismatch

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxCircTypeNoMatch

Description

Either a LAN hello packet was received on an interface configured as a point-to-point interface or vice versa.

Remedy

Check the configuration of the interface in question as well as the neighboring router(s). Both or all interfaces that comprise this adjacency must be configured as the same type - broadcast or point-to-point.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) circuit type mismatch

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxCircTypeChg

Description

A hello packet of a type (broadcast or hello) differing from prior hellos was received.

Remedy

Check the configuration of the interface in question as well as the neighboring router(s). Both or all interfaces that comprise this adjacency must be configured as the same type - broadcast or point-to-point.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) circuit type changed

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxAreaNoMatch

Description

A hello packet was received with the incorrect area address.

Remedy

All routers participating in the same L1 area must be assigned with the same area address to us in hello pdu transmissions. Check the configuration of the routers in this area to be sure this is the case.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) area address mismatch

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxNoProto

Description

A hello packet was received with neither IPv4 nor the IPv6 NLPID set in the protocols supported TLV.

Remedy

Extreme's implementation of IS-IS only supports IPv4 or IPv6. Be sure the neighboring router's interface has either IPv4 or IPv6 configured and enabled.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) no protocols support TLV

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxProtoNoMatch

Description

A hello packet was received and includes indication that no protocols supported by the neighbor are also supported by this router.

Remedy

In a multi-topolgy environment, point-to-point adjacencies require that the neighbors have at least one protocol in common. This message indicates that no protocols are common to the neighbors. This may occur during a transitional period of configuration. If not, check the configuration on both neighbors to ensure at least one common protocol is in use on either side of the adjacency.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) protocols supported mismatch

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxIPv4NoMatch

Description

A hello packet was received that indicates this router and the transmitting neighbor differ in their support for IPv4.

Remedy

When adjacency checking for IPv4 is enabled, this check occurs before verifying the adjacency subnet. If this is undesirable, disable adjacency checking. Otherwise, ensure that the interfaces on either side of the adjacency are enabled for IPv4.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) IPv4 protocols supported mismatch

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxIPv4IfNoMatch

Description

A hello packet was received that indicates the sending interface address is not on the same subnet as the receiving interface.

Remedy

This check is performed when adjacency checking for IPv4 is enabled. If this is undesirable, disable adjacency checking. Otherwise, ensure that the interfaces on either side of the adjacency are configured for the same IPv4 subnet.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) IPv4 interface address mismatch

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxIPv6NoMatch

Description

A hello packet was received that indicates this router and the transmitting neighbor differ in their support for IPv6.

Remedy

When adjacency checking for IPv6 is enabled, this check occurs before verifying the adjacency link local subnet. If this is undesirable, disable adjacency checking. Otherwise, ensure that the interfaces on either side of the adjacency are enabled for IPv6.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) IPv6 protocols supported mismatch

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxIPv6IfNoMatch

Description

A hello packet was received that indicates the sending interface address is not on the same link-local subnet as the receiving interface.

Remedy

This check is performed when adjacency checking for IPv6 is enabled. If this is undesirable, disable adjacency checking. Otherwise, ensure that the interfaces on either side of the adjacency are configured for the same IPv6 subnet.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) IPv6 interface address mismatch

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.Rx3WayInv

Description

The 3-way handshake state contained in a received point-to-point hello PDU is invalid.

Remedy

This indicates the point-to-point neighbor has included an invalid value in its hello PDU. The software on the neighbor may have a bug, or the neighbors may be incompatible. Check the neighbor to be sure its supports the point-to-point three way handshake.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) Invalid 3-way handshake state

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxSysIdNoMatch

Description

A 3-way handshake TLV in a point-to-point Hello PDU did not contain the correct neighbor (this router's) system ID.

Remedy

This could result from a network misconfiguration or an invalid point-to-point topology. Check the network configuration to ensure that no more than two ISIS routers are active on the connecting VLAN. No more than two ISIS routers may operate in a point-to-point adjacency.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) Neighbor System ID mismatch in 3-way TLV

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxExtCircIdNoMatch

Description

A 3-way handshake TLV in a point-to-point Hello PDU did not contain the correct neighbor (this router's) circuit ID.

Remedy

Packets may be leaking to the wrong VLAN and ISIS interface via a network misconfiguration. Confirm that only two ISIS routers are participating in this point-to-point adjacency and that hello packets cannot cross to other VLANs.

Severity

Notice

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) Extended Circuit ID mismatch in 3-way TLV

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxNbrAddLocalFail

Description

While attempting to add a new neighbor to the receiving interface's neighbor database, the system ID was already associated with the interface.

Remedy

This is a "should never" happen scenario because the receiving interface's database is checked for the neighbor system id before attempting to add it. If the problem persists and/or an adjacency fails to form on the interface, try removing the afflicted from ISIS and re-adding it.

Severity

Notice

Message Text

[%vlanName%-%sysId%] Local Neighbor Database insertion failed

Message Parameters

Name	Type
vlanName	VLAN
sysId	String

ISIS.IIH.RxNbrAddGlobalFail

Description

While attempting to add a new neighbor to the neighbor database, the system ID was already in the database.

Remedy

This could occur as a result of an illegal topology in which two IS-IS routers have formed more than one adjacency between them. Check the topology and configurations to be sure this is not the case.

Severity

Notice

Message Text

[%vlanName%-%sysId%] Global Neighbor Database insertion failed

Message Parameters

Name	Type
vlanName	VLAN
sysId	String

ISIS.IIH.RxIPv4IfNotFwd

Description

A hello packet with v4 support was received on an interface that does not have v4 forwarding enabled.

Remedy

This check is performed when adjacency checking for IPv4 is enabled. If this is undesirable, disable adjacency checking. Otherwise, ensure that the interfaces on either side of the adjacency have ipv4 forwarding enabled.

Severity

Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) IPv4 interface is not forwarding

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String

ISIS.IIH.RxIPv6IfNotFwd

Description

A hello packet with v6 support was received on an interface that does not have v6 forwarding enabled.

Remedy

This check is performed when adjacency checking for IPv6 is enabled. If this is undesirable, disable adjacency checking. Otherwise, ensure that the interfaces on either side of the adjacency have ipv6 forwarding enabled.

Severity

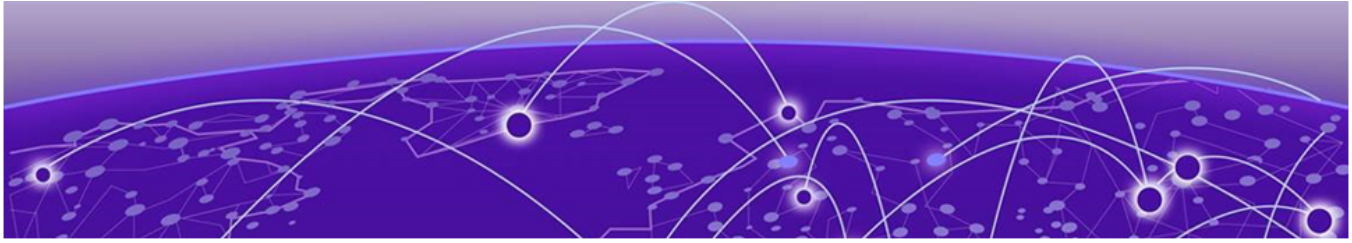
Warning

Message Text

`%pduType%` IS-Neighbor(`%vlanName%-%sysId%`) IPv6 interface is not forwarding

Message Parameters

Name	Type
pduType	String
vlanName	VLAN
sysId	String



ISIS.Import Messages

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ISIS.Import.DelIPv4Fail on page 2718
ISIS.Import.AddIPv4BlackHoleFail on page 2718
ISIS.Import.DelIPv4BlackHoleFail on page 2719
ISIS.Import.AddIPv6Fail on page 2720
ISIS.Import.DelIPv6Fail on page 2720
ISIS.Import.AddIPv6BlackHoleFail on page 2721
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ISIS.Import.UpdtIPv6 on page 2723
ISIS.Import.UpdtIPv4NextHop on page 2724
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ISIS.Import.DelTrace on page 2727
ISIS.Import.DelDone on page 2728

ISIS.Import.AddIPv4Fail

Description

An attempt to add the specified IPv4 route to route table failed.

Remedy

This system is running low on memory resources. The local or network configuration should be reduced to free up memory resources. ISIS should be disabled and renabled in order to re-acquire the route that could not be installed.

Severity

Error

Message Text

IPv4 route add request for `%ipAddr%`/`%mask%` failed with error `%rc%`

Message Parameters

Name	Type
ipAddr	IP
mask	sInt
rc	sInt

ISIS.Import.DelIPv4Fail

Description

An attempt to delete the specified IPv4 route to route table failed.

Remedy

This system is running low on memory resources. The local or network configuration should be reduced to free up memory resources. ISIS should be disabled and renabled in order to re-synchronize the local routing table with its peers once memory resources are freed.

Severity

Error

Message Text

IPv4 route delete request for `%ipAddr%`/`%mask%` failed with error `%rc%`

Message Parameters

Name	Type
ipAddr	IP
mask	sInt
rc	sInt

ISIS.Import.AddIPv4BlackHoleFail

Description

An attempt to add an IPv4 blackhole route failed.

Remedy

This system is running low on memory resources. The local or network configuration should be reduced to free up memory resources. ISIS should be disabled and renabled in order to re-acquire the route that could not be installed.

Severity

Error

Message Text

IPv4 route add request for blackhole route failed with error `%rc%`

Message Parameters

Name	Type
rc	sInt

ISIS.Import.DelIPv4BlackHoleFail

Description

An attempt to delete an IPv4 blackhole route failed.

Remedy

This system is running low on memory resources. The local or network configuration should be reduced to free up memory resources. ISIS should be disabled and renabled in order to re-synchronize the local routing table with its peers once memory resources are freed.

Severity

Error

Message Text

IPv4 route delete request for blackhole route failed with error `%rc%`

Message Parameters

Name	Type
rc	sInt

ISIS.Import.AddIPv6Fail

Description

An attempt to add the specified IPv6 route to route table failed.

Remedy

This system is running low on memory resources. The local or network configuration should be reduced to free up memory resources. ISIS should be disabled and renabled in order to re-acquire the route that could not be installed.

Severity

Error

Message Text

IPv6 route add request for `%ipAddr%`/`%mask%` failed with error `%rc%`

Message Parameters

Name	Type
ipAddr	IPv6
mask	sInt
rc	sInt

ISIS.Import.DelIPv6Fail

Description

An attempt to delete the specified IPv6 route to route table failed.

Remedy

This system is running low on memory resources. The local or network configuration should be reduced to free up memory resources. ISIS should be disabled and renabled in order to re-synchronize the local routing table with its peers once memory resources are freed.

Severity

Error

Message Text

IPv6 route delete request for `%ipAddr%`/`%mask%` failed with error `%rc%`

Message Parameters

Name	Type
ipAddr	IPv6
mask	sInt
rc	sInt

ISIS.Import.AddIPv6BlackHoleFail

Description

An attempt to add an IPv6 blackhole route failed.

Remedy

This system is running low on memory resources. The local or network configuration should be reduced to free up memory resources. ISIS should be disabled and renabled in order to re-acquire the route that could not be installed.

Severity

Error

Message Text

IPv6 route add request for blackhole route failed with error `%rc%`

Message Parameters

Name	Type
rc	sInt

ISIS.Import.DelIPv6BlackHoleFail

Description

An attempt to delete an IPv6 blackhole route failed.

Remedy

This system is running low on memory resources. The local or network configuration should be reduced to free up memory resources. ISIS should be disabled and renabled in order to re-synchronize the local routing table with its peers once memory resources are freed.

Severity

Error

Message Text

IPv6 route delete request for blackhole route failed with error `%rc%`

Message Parameters

Name	Type
rc	sInt

ISIS.Import.UpdtIPv4

Description

This is a debug event that requires a debug-only command to enable.

Remedy

None. Debug-only.

Severity

Debug-Verbose

Message Text

`%area%:%proto%: %ipAddr%/%ipMask%` type `%pathType%%externalFlag%` metric `%metric% %event%`

Message Parameters

Name	Type
area	String
proto	String

Name	Type
ipAddr	IP
ipMask	uInt8
pathType	String
externalFlag	String
metric	uInt
event	String

ISIS.Import.UpdtIPv6

Description

This is a debug event that requires a debug-only command to enable.

Remedy

None. Debug-only.

Severity

Debug-Verbose

Message Text

`%area%:%proto%: %ipAddr%/%ipMask%` type `%pathType%%externalFlag%` metric `%metric% %event%`

Message Parameters

Name	Type
area	String
proto	String
ipAddr	IPv6
ipMask	uInt8
pathType	String
externalFlag	String
metric	uInt
event	String

ISIS.Import.UpdtIPv4NextHop

Description

This is a debug event that requires a debug-only command to enable.

Remedy

None. Debug only.

Severity

Debug-Verbose

Message Text

IP-nexthop `%addr%`

Message Parameters

Name	Type
addr	IP

ISIS.Import.UpdtIPv6NextHop

Description

This is a debug event that requires a debug-only command to enable.

Remedy

None. Debug only.

Severity

Debug-Verbose

Message Text

IP-nexthop `%addr%`

Message Parameters

Name	Type
addr	IPv6

ISIS.Import.AddReq

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Import.AddTrace

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Import.AddNextHopDebug

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Import.AddDone

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Import.DelReq

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Import.DelTrace

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ISIS.Import.DelDone

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

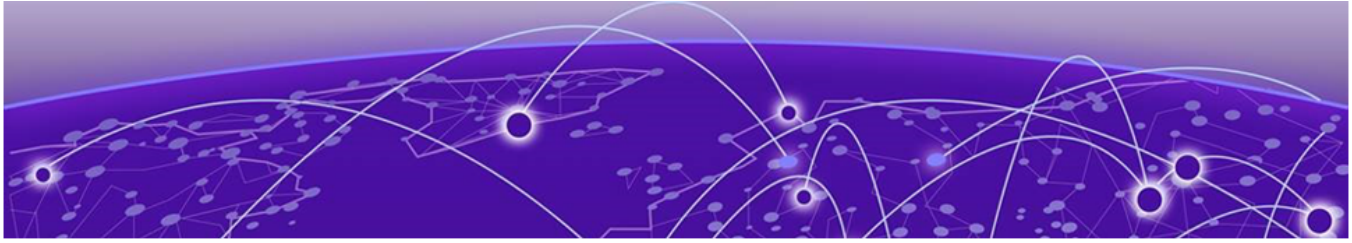
Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



ISIS.LSP Messages

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ISIS.LSP.Add

Description

This is an informational message indicating that an LSP with the specified ID has been added to the the LSP database.

Remedy

There is no remedy - this message is informational.

Severity

Debug-Summary

Message Text

`%lspId%`: added to LSPDB

Message Parameters

Name	Type
lspId	String

ISIS.LSP.AddSelf

Description

The switch generated an LSP and added it to the LSP database.

Remedy

There is no remedy - this is an informational message

Severity

Debug-Summary

Message Text

`%lspId%`: self-generated LSP added to LSPDB

Message Parameters

Name	Type
lspId	String

ISIS.LSP.AddSNP

Description

A new LSP ID was received from a SNP. As a result, an entry in the LSP DB was created and a PSNP is generated.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: new LSP created from received SNP

Message Parameters

Name	Type
lspId	String

ISIS.LSP.UpdtSelf

Description

The LSPDB entry for this switch is being updated.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: updating LSPDB with self-generated LSP

Message Parameters

Name	Type
lspId	String

ISIS.LSP.Del

Description

The specified LSP was deleted from the LSP database.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: delete from LSPDB

Message Parameters

Name	Type
lspId	String

ISIS.LSP.DelSelf

Description

The specified LSP, which was originated on this switch, was deleted from the LSPDB.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: self-generated LSP deleted from LSPDB

Message Parameters

Name	Type
lspId	String

ISIS.LSP.RxZeroLife

Description

The specified LSP contains a remaining lifetime of zero. As a result, this LSP will be purged if it hasn't already.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: received LSP's remaining lifetime of zero

Message Parameters

Name	Type
lspId	String

ISIS.LSP.RxNewer

Description

The specified LSP is newer than the copy in the LSP database. As a result, the database will be updated, the LSP will be flooded and an SPF calculation will be performed.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: received LSP is newer than DB copy

Message Parameters

Name	Type
lspId	String

ISIS.LSP.RxSame

Description

The specified LSP that was just received is the same as the copy in the LSP database. No action is taken.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: received LSP is same as DB copy

Message Parameters

Name	Type
lspId	String

ISIS.LSP.RxOlder

Description

The received LSP is older then the copy in the LSP database. The copy in the database will be flooded out of the receiving interface as a result.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: received LSP is older than DB copy

Message Parameters

Name	Type
lspId	String

ISIS.LSP.RxPrevSNP

Description

A prior PSNP was sent for the specifed LSP. The complete LSP was expected, but an SNP was received instead. As a result, the LSP will be requested again with a PSNP.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: same LSP entry received, sending PSNP again

Message Parameters

Name	Type
lspId	String

ISIS.LSP.AgeOut

Description

The duration of this LSPs remaining lifetime plus the zero age lifetime of 60 seconds has been reached without receipt of a refreshed version of this LSP. As a result, this LSP has aged out and is being purged from the database.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: Zero Age reached, purging in process

Message Parameters

Name	Type
lspId	String

ISIS.LSP.NoFloodSRM

Description

The specified LSP was queued for flooding on the specified interface but the SRM flags were already cleared. The LSP was not flooded on the specified interface as a result.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%lspId%`: SRM flag is already cleared on `%ifName%`

Message Parameters

Name	Type
lspId	String
ifName	String

ISIS.LSP.NoFloodNbr

Description

The specified LSP was queued for flooding but was not flooded since there no neighbors present on the LSP's level.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: no valid L`%level%` neighbor, not flooding

Message Parameters

Name	Type
lspId	String
level	uInt

ISIS.LSP.NoFloodSize

Description

The specified LSP is larger than the specified interface's MTU. As a result, the LSP cannot be propogated over that interface.

Remedy

The MTU on this adjacency may not be sufficient for ISIS to operate over. The topology may need to be redesigned to use a larger MTU, or LSPs in general may need to be reduced in size by using fewer or smaller TLVs.

Severity

Notice

Message Text

`%lspId%`: LSP too large to propagate on `%ifName%`

Message Parameters

Name	Type
lspId	String
ifName	String

ISIS.LSP.RxSelfCSNP

Description

An SNP was received containing an LSP originated from this switch.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

L`%level%`-CSNP received self-originated LSP entry

Message Parameters

Name	Type
level	uInt

ISIS.LSP.Proc

Description

The specified LSP is being processed.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

`%lspId%`: processing L`%level%` length(`%length%`), lifetime(`%lifetime%`), seqnum(`%seqNum%`), cksum(`%ckSum%`)

Message Parameters

Name	Type
lspId	String
level	uInt
length	uInt
lifetime	uInt
seqNum	xInt32
ckSum	xInt16

ISIS.LSP.AuthFail

Description

The specified PDU type (LSP, CSNP, or PSNP) on the specified level failed authentication.

Remedy

Check the authentication configuration of the nodes in the appopriate area (or L2 domain) to ensure that the correct nodes are enabled (or disabled) for authentication and are using the correct password(s).

Severity

Info

Message Text

L`%level%-%type%`: authentication failed

Message Parameters

Name	Type
type	String
level	uInt

ISIS.LSP.CksumFail

Description

The specified LSP was determined to be corrupt based on a checksum computation on the LSP. As a result, the LSP was discarded.

Remedy

Corrupted packets could indicate hardware issues on this switch or elsewhere in the network. Check other nodes in the network for checksum errors to help narrow down where the errors are originating.

Severity

Notice

Message Text

`%lspId%`: checksum error: supplied `%supplied%` / computed `%computed%`

Message Parameters

Name	Type
lspId	String
supplied	xInt16
computed	xInt16

ISIS.LSP.LifetimeInv

Description

The specified LSP includes a remaining lifetime that exceeds the configured maximum age.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%lspId%`: lifetime (`%lifetime%`) is greater than maxage (`%maxAge%`)

Message Parameters

Name	Type
lspId	String
lifetime	uInt
maxAge	uInt

ISIS.LSP.RxSelfPSNP

Description

An SNP was received containing an LSP originated from this switch.

Remedy

None. This is an informative message.

Severity

Debug-Summary

Message Text

L`%level%`-PSNP received self-originated LSP entry

Message Parameters

Name	Type
level	uInt

ISIS.LSP.TLV_Data

Description

The specified that a tlv entry for a LSP is being processed.

Remedy

None. This is an informative message.

Severity

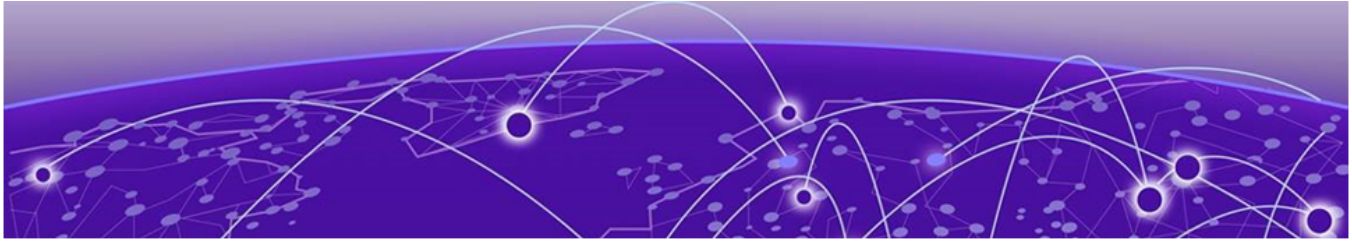
Debug-Data

Message Text

Tlv entry: `%ptype%` tlv: `%tlvType%` length= `%length%`

Message Parameters

Name	Type
ptype	String
tlvType	String
length	uInt
bufptr	Buf-ptr
datalen	Buf-len



ISIS.NFSM Messages

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ISIS.NFSM.LANRxFirstHello on page 2744
ISIS.NFSM.LANRxHello on page 2744
ISIS.NFSM.LANIfDown on page 2745
ISIS.NFSM.LANAdjUp on page 2745
ISIS.NFSM.IgnEvent on page 2746
ISIS.NFSM.AdjChg on page 2747
ISIS.NFSM.ProcEvent on page 2747
ISIS.NFSM.P2PHoldTimerExp on page 2748
ISIS.NFSM.P2PCSNPTimerExp on page 2748
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ISIS.NFSM.NbrNotFound on page 2750
ISIS.NFSM.NbrAdd on page 2750
ISIS.NFSM.NbrDel on page 2751
ISIS.NFSM.ProtoChg on page 2751

ISIS.NFSM.LANHoldTimerExp

Description

The adjacency with the specified neighbor expired.

Remedy

If this was not planned, the neighbor may have failed or is restarting. Check the health of the neighbor. It is also possible that a link after the first L2 hop to the neighbor has gone down.

Severity

Info

Message Text

`%nbr%` (LAN): Level `%level%` hold timer expired

Message Parameters

Name	Type
nbr	String
level	uInt

ISIS.NFSM.LANRxFirstHello

Description

A hello packet was received on a broadcast interface from a neighbor that does not have an existing adjacency on that interface.

Remedy

Unless an adjacency should not be formed with the specified neighbor, no action should be taken. This is an informational message.

Severity

Info

Message Text

`%nbr%` (LAN): initial level `%level%` Hello received

Message Parameters

Name	Type
nbr	String
level	uInt

ISIS.NFSM.LANRxHello

Description

A hello packet was received on a broadcast interface from the specified neighbor.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%nbr%` (LAN): level `%level%` Hello received

Message Parameters

Name	Type
nbr	String
level	uInt

ISIS.NFSM.LANIfDown

Description

An adjacency has gone down as a result of the interface going down.

Remedy

If this was not planned, check the health of the first hop link to the specified neighbor.

Severity

Info

Message Text

`%nbr%` (LAN): Level `%level%` interface down

Message Parameters

Name	Type
nbr	String
level	uInt

ISIS.NFSM.LANAdjUp

Description

A broadcast adjacency with the specified neighbor has transitioned to UP. A DIS will now be elected.

Remedy

None. This is an informational message.

Severity

Info

Message Text

`%nbr%` (LAN): level `%level%` adjacency is UP

Message Parameters

Name	Type
nbr	String
level	uInt

ISIS.NFSM.IgnEvent

Description

An event occurred that has no bearing on the current state of the adjacency with the specified neighbor.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%nbr%` (`%ifType%`): level `%level%` event ignored

Message Parameters

Name	Type
nbr	String
ifType	String
level	uInt

ISIS.NFSM.AdjChg

Description

An state change occurred for the adjacency with the specified neighbor.

Remedy

If this was an unexpected event, check the health of the connecting interface and network to the specified neighbor and/or the state of the neighbor.

Severity

Info

Message Text

`%nbr%` (`%ifType%`): level `%level%` state changed `%oldState%` -> `%newState%`

Message Parameters

Name	Type
nbr	String
ifType	String
level	uInt
oldState	String
newState	String

ISIS.NFSM.ProcEvent

Description

The specified event occurred for the specified adjacency.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%nbr%` (`%ifType%`): level `%level%` state `%state%`, event `%event%`

Message Parameters

Name	Type
nbr	String
ifType	String
level	uInt
state	String
event	String

ISIS.NFSM.P2PHoldTimerExp

Description

The adjacency with the specified neighbor expired.

Remedy

If this was not planned, the neighbor may have failed or is restarting. Check the health of the neighbor. It is also possible that a link after the first L2 hop to the neighbor has gone down.

Severity

Info

Message Text

`%nbr%` (P2P): hold timer expired

Message Parameters

Name	Type
nbr	String

ISIS.NFSM.P2PCSNPTimerExp

Description

The CSNP timer for the adjacency with the specified neighbor expired. This is used for interfaces with mesh blocking enabled.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%nbr%` (P2P): CSNP timer expired

Message Parameters

Name	Type
nbr	String

ISIS.NFSM.P2PIgnEvent

Description

An event occurred that has no bearing on the current state of the adjacency with the specified neighbor.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%nbr%` (P2P): level `%level%` event ignored

Message Parameters

Name	Type
nbr	String
level	uInt

ISIS.NFSM.NbrNotFound

Description

The neighbor entry for the specified neighbor was going to be deleted for the specified interface, but it could not be located.

Remedy

This could indicate a software bug.

Severity

Warning

Message Text

could not find neighbor `%nbr%` in the interface `%ifName%`

Message Parameters

Name	Type
nbr	String
ifName	String

ISIS.NFSM.NbrAdd

Description

A neighbor was added to the database.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%nbr%` (`%type%`): neighbor is added

Message Parameters

Name	Type
nbr	String
type	String

ISIS.NFSM.NbrDel

Description

A neighbor was deleted from the database.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%nbr%`: neighbor is deleted

Message Parameters

Name	Type
nbr	String

ISIS.NFSM.ProtoChg

Description

The specified adjacencies has had a change in protocols supported.

Remedy

This message can occur during node configuration, in which case no action may be needed.

Severity

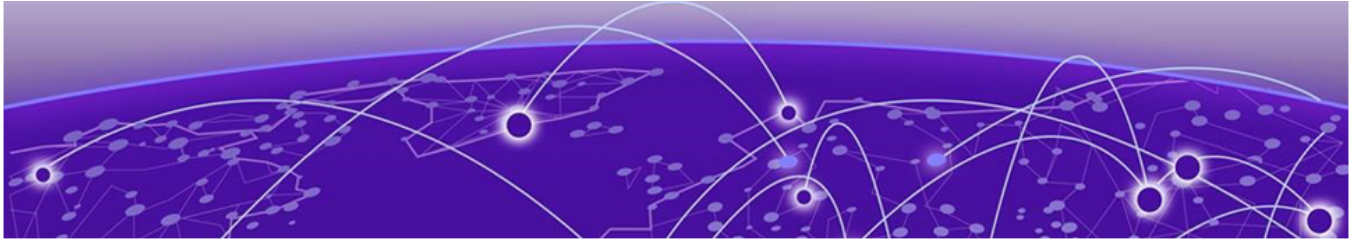
Info

Message Text

`%nbr%` (`%type%`): protocols supported changed (`%oldProtos%`) -> (`%newProtos%`)

Message Parameters

Name	Type
nbr	String
type	String
oldProtos	String
newProtos	String



ISIS.PDU Messages

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ISIS.PDU.RxProtoUnk on page 2754
ISIS.PDU.RxLvlMisMatch on page 2755
ISIS.PDU.RxProtoVerInv on page 2755
ISIS.PDU.RxVerInv on page 2756
ISIS.PDU.RxSysIdInv on page 2757
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ISIS.PDU.RxProtoInv

Description

An IS is sending ISIS PDU's to the switch using a protocol not supported by this switch. The sender is using the mac address specified and the PDU's are arriving on the specified vlan. These packets are being ignored by this switch.

Remedy

Neighboring ISIS routers should not be configured to send PDU's using the specified protocol as the protocol is not supported on this switch.

Severity

Notice

Message Text

Dropping `%protoName%` PDU from `%srcMac%` (`%srcIf%`)

Message Parameters

Name	Type
protoName	String
srcMac	srcMAC
srcIf	VLAN

ISIS.PDU.RxProtoUnk

Description

An IS is sending ISIS PDU's to the switch using a protocol not supported by this switch. The sender is using the mac address specified and the PDU's are arriving on the specified vlan. These packets are being ignored by this switch.

Remedy

Neighboring ISIS routers should not be configured to send PDU's using the specified protocol as the protocol is not supported on this switch.

Severity

Notice

Message Text

Dropping PDU with unknown proto `%proto%` from `%srcMac%` (`%srcIf%`)

Message Parameters

Name	Type
proto	xInt8
srcMac	srcMAC
srcIf	VLAN

ISIS.PDU.RxLvlMisMatch

Description

A PDU was received on a level in which the receiving interface was not enabled.

Remedy

Either configure the receiving interface to accept the level of the PDU or configure the source router to not send PDU's at that level.

Severity

Notice

Message Text

`%pduType%` PDU from `%srcMac%` (`%srcIf%`) mismatch with circuit type `%level%`

Message Parameters

Name	Type
pduType	String
srcMac	srcMAC
srcIf	VLAN
level	String

ISIS.PDU.RxProtoVerInv

Description

A PDU was received from the specified MAC address with an incorrect protocol/version id extension.

Remedy

The source router may be incompatible with this switch.

Severity

Notice

Message Text

`%pduType%` protocol/version id extension `%protoVerId%` from `%srcMac%` (`%srcIf%`) incorrect

Message Parameters

Name	Type
pduType	String
protoVerId	xInt8
srcMac	srcMAC
srcIf	VLAN

ISIS.PDU.RxVerInv

Description

A PDU was received from the specified MAC address with an unsupported ISIS version.

Remedy

The source router may be incompatible with this switch.

Severity

Notice

Message Text

`%pduType%` version `%version%` from `%srcMac%` (`%srcIf%`) incorrect

Message Parameters

Name	Type
pduType	String
version	xInt8
srcMac	srcMAC
srcIf	VLAN

ISIS.PDU.RxSysIdInv

Description

An ISIS PDU was received from the specified MAC on the specified VLAN using an incorrect system ID length. The PDU was dropped.

Remedy

An IS is sending PDU's with an invalid system ID length. This may indicate a bug in the implementation of ISIS on the source switch.

Severity

Notice

Message Text

Dropping `%pduType%` with incorrect system ID len `%sysIdLen%` from `%srcMac%` (`%srcIf%`)

Message Parameters

Name	Type
pduType	String
sysIdLen	uInt8
srcMac	srcMAC
srcIf	VLAN

ISIS.PDU.RxMaxAddrMisMatch

Description

An ISIS PDU was received from the specified MAC on the specified VLAN using a different max area address configuration than this switch. The PDU was dropped.

Remedy

All switches exchanging L1 PDUs must be configured with the same number of max area addresses.

Severity

Notice

Message Text

Dropping `%pduType%` with max area address mismatch `%maxAddr%` from `%srcMac%` (`%srcIf%`)

Message Parameters

Name	Type
pduType	String
maxAddr	uInt8
srcMac	srcMAC
srcIf	VLAN

ISIS.PDU.RxTypeUnk

Description

An ISIS PDU of unknown type was received from the specified MAC on the specified VLAN.

Remedy

This could indicate use of an extension to the ISIS protocol that is unsupported on this switch. It could also indicate a bug in the source switch's implementation of the ISIS protocol.

Severity

Notice

Message Text

Dropping PDU with unknown type `%pduType%` from `%srcMac%` (`%srcIf%`)

Message Parameters

Name	Type
pduType	uInt8
srcMac	srcMAC
srcIf	VLAN

ISIS.PDU.RxLenInv

Description

An ISIS PDU was received from the specified MAC on the specified VLAN with an invalid length. The PDU was dropped.

Remedy

The PDU length either exceeds the length of the max MTU for this interface, or is smaller than the minimum ISIS PDU size. The mtu for this interface may be configured to be too small or the mtu on the source switch may be configured to be too large.

Severity

Notice

Message Text

Dropping `%pduType%` with invalid length `%pduLen%` from `%srcMac%` (`%srcIf%`)

Message Parameters

Name	Type
pduType	String
pduLen	uInt32
srcMac	srcMAC
srcIf	VLAN

ISIS.PDU.RxTypeInv

Description

An ISIS PDU was received from the specified MAC on the specified VLAN. This type of PDU is invalid for the receiving interface (broadcast vs point-to-point).

Remedy

LAN (broadcast) Hello PDU's should not be sent to interfaces configured to be point-to-point. Similarly, point-to-point Hello PDU's should not be sent to interfaces configured to be broadcast. Check the configuration of the receiving interface and the sending switch to ensure the neighboring interfaces are configured to be of the same type (broadcast or point-to-point).

Severity

Notice

Message Text

Dropping invalid `%pduType%` from `%srcMac%` (`%srcIf%`)

Message Parameters

Name	Type
pduType	String
srcMac	srcMAC
srcIf	VLAN

ISIS.PDU.TxFail

Description

A PDU transmission failed due to the error contained in the message.

Remedy

A transmission failure is due to an internal error which could range from loss of connectivity and a full transmission buffer to software bugs. The error message string in quotes should help indicate that nature of the transmission error.

Severity

Warning

Message Text

`%pduType%` on `%egressIf%` length `%length%` failed \"`%err%`\"

Message Parameters

Name	Type
pduType	String
egressIf	VLAN
length	sInt
err	String

ISIS.PDU.Tx

Description

A PDU of the specified type was sent on the specified interface. Note that this message is reported after a system call returns success and may not necessarily indicate that a PDU has been put on the wire.

Remedy

This is an informational message.

Severity

Debug-Summary

Message Text

`%pduType%` on `%egressIf%` length `%length%`

Message Parameters

Name	Type
pduType	String
egressIf	VLAN
length	sInt

ISIS.PDU.Rx

Description

A PDU of the specified type was received on the specified interface from the specified source MAC.

Remedy

This is an informational message.

Severity

Debug-Summary

Message Text

`%pduType%` from `%srcMac%` on `%srcIf%`, length `%length%`

Message Parameters

Name	Type
pduType	String
srcMac	srcMAC
srcIf	VLAN
length	sInt

ISIS.PDU.TxNull

Description

An internal error indicating that a buffered PDU was empty and therefore could not be transmitted. This likely means that there was nothing to transmit in the first place, not that the PDU was lost.

Remedy

This indicates an internal bug but should not be critical to proper operation of the protocol.

Severity

Notice

Message Text

PDU for `%egressIf%` is NULL

Message Parameters

Name	Type
egressIf	VLAN

ISIS.PDU.LanHelloTlv

Description

This indicates that a TLV entry for a Lan Hallo PDU is processing.

Remedy

This is not an error. This information is used by software engineering.

Severity

Debug-Data

Message Text

TLV Entry: `%pType%` TLV: `%tlvType%` length = `%length%`

Message Parameters

Name	Type
pType	String
tlvType	String
length	uInt
bufp	Buf-ptr
buflen	Buf-len

ISIS.PDU.P2pHelloTlv

Description

This indicates that a TLV entry for a P2P Hello PDU is processing.

Remedy

This is not an error. This information is used by software engineering.

Severity

Debug-Data

Message Text

TLV Entry: `%pType%` TLV: `%tlvType%` length = `%length%`

Message Parameters

Name	Type
pType	String
tlvType	String
length	uInt
bufp	Buf-ptr
buflen	Buf-len

ISIS.PDU.CsnpTlv

Description

This indicates that a TLV entry for a CSNP PDU is processing.

Remedy

This is not an error. This information is used by software engineering.

Severity

Debug-Data

Message Text

TLV Entry: `%pType%` TLV: `%tlvType%` length = `%length%`

Message Parameters

Name	Type
pType	String
tlvType	String
length	uInt
bufp	Buf-ptr
buflen	Buf-len

ISIS.PDU.PsnpTlv

Description

This indicates that a TLV entry for a PSNP PDU is processing.

Remedy

This is not an error. This information is used by software engineering.

Severity

Debug-Data

Message Text

TLV Entry: `%pType%` TLV: `%tlvType%` length = `%length%`

Message Parameters

Name	Type
pType	String
tlvType	String
length	uInt
bufp	Buf-ptr
buflen	Buf-len

ISIS.PDU.RxIfUnk

Description

A packet was received for a vlan instance that the ISIS module does not recognize. The packet was discarded.

Remedy

None. This is a debug message only. This event can occur when a vlan is removed from ISIS while a packet for that vlan is queued for processing.

Severity

Debug-Summary

Message Text

Discarding packet for unknown vlan instance `%vlanInstance%`

Message Parameters

Name	Type
vlanInstance	xInt32

ISIS.PDU.RxFail

Description

An internal error occurred while attempting to receive a packet. The accompanying error msg text may provide more details about the problem.

Remedy

None.

Severity

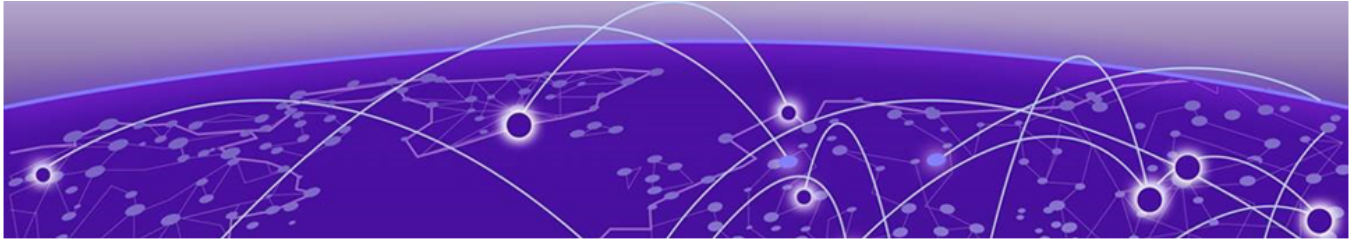
Warning

Message Text

Receive packet operation failed with error: `%errmsg%`

Message Parameters

Name	Type
errmsg	String



ISIS.Policy Messages

ISIS.Policy.BndFail on page 2767
ISIS.Policy.BndReqFail on page 2768
ISIS.Policy.UnbndFailHndlNull on page 2768
ISIS.Policy.UnbndReqFail on page 2769
ISIS.Policy.BndFailRtTypeInv on page 2770
ISIS.Policy.DebugData on page 2770
ISIS.Policy.RfrshFailInstNull on page 2771
ISIS.Policy.RfrshFailMstrNull on page 2771
ISIS.Policy.RfrshFailVRNull on page 2772
ISIS.Policy.RfrshFailRtTypeInv on page 2772
ISIS.Policy.RfrshFailVRIDUnk on page 2773
ISIS.Policy.RfrshFailDataNull on page 2774
ISIS.Policy.BndFailDataNull on page 2774
ISIS.Policy.RfrshImprtDebug on page 2775
ISIS.Policy.RfrshExprtDebug on page 2775
ISIS.Policy.RfrshInterLvlDebug on page 2776

ISIS.Policy.BndFail

Description

The specified policy was not properly installed. Additional specific information is provided in the errMsg.

Remedy

This can occur if errors in the policy are detected. The text in the error message indicates the specific type of error in the policy.

Severity

Error

Message Text

`%type%` policy `%name%` failed to bind: `%errMsg%`

Message Parameters

Name	Type
type	String
name	String
errMsg	String

ISIS.Policy.BndReqFail

Description

A request to bind the specified policy failed. Installation of the policy could not be completed.

Remedy

None. The isis and/or policy manager processes may need to be restarted.

Severity

Error

Message Text

`%type%` policy `%name%` bind request failed

Message Parameters

Name	Type
type	String
name	String

ISIS.Policy.UnbndFailHndlNull

Description

The specified policy was not properly uninstalled.

Remedy

The isis process may need to be restarted.

Severity

Error

Message Text

policy `%name%` failed to unbind - missing handle

Message Parameters

Name	Type
name	String

ISIS.Policy.UnbndReqFail

Description

The specified policy was not properly uninstalled.

Remedy

ISIS and/or policy manager may need to be restarted.

Severity

Error

Message Text

policy `%name%` unbind request failed

Message Parameters

Name	Type
name	String

ISIS.Policy.BndFailRtTypeInv

Description

The specified policy was not properly installed. An invalid route type was found in the policy.

Remedy

None. This is a software bug.

Severity

Error

Message Text

`%type%` policy `%name%` failed to bind - invalid route type `%rtType%`

Message Parameters

Name	Type
type	String
name	String
rtType	sInt

ISIS.Policy.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%fmt%`

Message Parameters

Name	Type
fmt	Printf

ISIS.Policy.RfrshFailInstNull

Description

A request to refresh the specified policy was received but did not include a router instance.

Remedy

None. This is a software bug.

Severity

Error

Message Text

`%type%` policy `%name%` could not be refreshed - missing isis router instance

Message Parameters

Name	Type
type	String
name	String

ISIS.Policy.RfrshFailMstrNull

Description

A request to refresh the specified policy was received, but the associated router instance does not have a master.

Remedy

None. This is a software bug.

Severity

Error

Message Text

`%type%` policy `%name%` could not be refreshed - missing isis master

Message Parameters

Name	Type
type	String
name	String

ISIS.Policy.RfrshFailVRNull

Description

A request to refresh the specified policy was received, but the associated router instance is not part of a VR.

Remedy

None. This is a software bug.

Severity

Error

Message Text

`%type%` policy `%name%` could not be refreshed - missing vr

Message Parameters

Name	Type
type	String
name	String

ISIS.Policy.RfrshFailRtTypeInv

Description

The specified policy was not properly installed. An invalid route type was found in the policy.

Remedy

None. This is a software bug.

Severity

Error

Message Text

`%type%` policy `%name%` failed to refresh - invalid route type `%rtType%`

Message Parameters

Name	Type
type	String
name	String
rtType	sInt

ISIS.Policy.RfrshFailVRIDUnk

Description

A request to refresh the specified policy was received, but ISIS has no record of the specified VR ID.

Remedy

None. This is a software bug.

Severity

Error

Message Text

`%type%` policy `%name%` could not be refreshed - ISIS is not running on VRID `%VRID%`

Message Parameters

Name	Type
type	String
name	String
VRID	uInt

ISIS.Policy.RfrshFailDataNull

Description

A request to refresh the specified policy was received but did not include any data.

Remedy

None. This is a software bug.

Severity

Error

Message Text

policy `%name%` could not be refreshed - missing data

Message Parameters

Name	Type
name	String

ISIS.Policy.BndFailDataNull

Description

A request to refresh the specified policy was received but did not include any data.

Remedy

None. This is a software bug.

Severity

Error

Message Text

policy `%name%` could not be refreshed - missing data

Message Parameters

Name	Type
name	String

ISIS.Policy.RfrshImprtDebug

Description

Import policy refresh debug message.

Remedy

None. This message is for debug purposes only.

Severity

Debug-Data

Message Text

```
%fmt%
```

Message Parameters

Name	Type
fmt	Printf

ISIS.Policy.RfrshExprtDebug

Description

Export policy refresh message.

Remedy

None. This message is for debug purposes only.

Severity

Debug-Data

Message Text

```
%fmt%
```

Message Parameters

Name	Type
fmt	Printf

ISIS.Policy.RfrshInterLvlDebug

Description

Interlevel filter policy refresh message.

Remedy

None. This message is for debug purposes only.

Severity

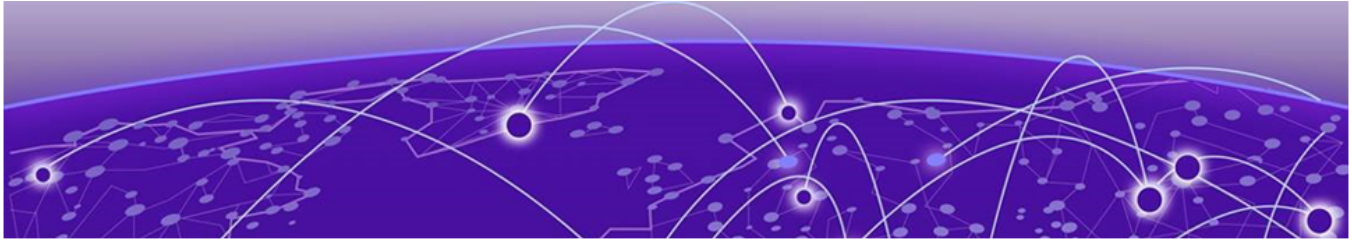
Debug-Data

Message Text

`%fmt%`

Message Parameters

Name	Type
fmt	Printf



ISIS.Restart Messages

ISIS.Restart.T1Exp on page 2777
ISIS.Restart.Success on page 2778
ISIS.Restart.Fail on page 2778
ISIS.Restart.T3ExpNoSync on page 2779
ISIS.Restart.IfNotReady on page 2779
ISIS.Restart.LSPNotSync on page 2780
ISIS.Restart.TrigSyncCall on page 2780
ISIS.Restart.TrigSyncSuccess on page 2781
ISIS.Restart.T2Exp on page 2781
ISIS.Restart.SyncSuccess on page 2782
ISIS.Restart.SyncFail on page 2783
ISIS.Restart.DisChg on page 2783
ISIS.Restart.DisElect on page 2784
ISIS.Restart.T3Exp on page 2784
ISIS.Restart.LANIDNoIf on page 2785
ISIS.Restart.LANIDTrc on page 2785
ISIS.Restart.LANIDCircIDChg on page 2786
ISIS.Restart.MaxT1ExpExcd on page 2787

ISIS.Restart.T1Exp

Description

A restart acknowledgement was not received on the specified interface before the T1 timer expired. Another restart request will be sent as a result.

Remedy

If the neighbor attached to the specified interface does not support graceful restart helper mode, this switch may not be able to perform restart. Otherwise, congestion or other network issues may be responsible for the lack of receipt of a hello with the restart acknowlegement bit set.

Severity

Info

Message Text

`%ifName%:%level%`: T1 hello timer expire

Message Parameters

Name	Type
ifName	String
level	String

ISIS.Restart.Success

Description

ISIS Graceful restart completed successfully.

Remedy

None. This is an informational message.

Severity

Info

Message Text

restart succeeded

ISIS.Restart.Fail

Description

ISIS Graceful failed to complete before the global T3 expired.

Remedy

Check the configuration and supported of all neighbors to ensure that graceful restart helper mode support is available. Restart timers may need to be increased to accomodate this environment.

Severity

Notice

Message Text

restart failed

ISIS.Restart.T3ExpNoSync

Description

The global restart timer expired, but the LSP DB was not completely synchronized.

Remedy

Check neighboring nodes to ensure restart helper mode support is available. Restart timers may need to be increased.

Severity

Notice

Message Text

T3 expired before sync finished(T2)

ISIS.Restart.IfNotReady

Description

The specified interface had not yet received a restart acknowledgment or is waiting for DIS election.

Remedy

Check neighboring nodes to ensure restart helper mode support is available. Restart timers may need to be increased.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`: interface `%ifName%` is not ready to sync

Message Parameters

Name	Type
area	String
level	uInt
ifName	String

ISIS.Restart.LSPNotSync

Description

The specified LSP ID was not synched during restart.

Remedy

Check neighboring nodes to ensure restart helper mode support is available. Restart timers may need to be increased.

Severity

Info

Message Text

`%area%`:L`%level%`: LSP `%lspId%` is not synched

Message Parameters

Name	Type
area	String
level	uInt
lspId	String

ISIS.Restart.TrigSyncCall

Description

The specified LSPDB is about to be checked to see if it is syncronized.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`: triggered LSPDB sync called

Message Parameters

Name	Type
area	String
level	uInt

ISIS.Restart.TrigSyncSuccess

Description

The specified LSPDB was verfied as being synched.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`: triggered LSPDB sync succeeded

Message Parameters

Name	Type
area	String
level	uInt

ISIS.Restart.T2Exp

Description

The T2 timer for the specified LSPDB expired. The database will now be checked for synchronization.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`: T2 level timer expire

Message Parameters

Name	Type
area	String
level	uInt

ISIS.Restart.SyncSuccess

Description

The specified LSPDB was verfied as being synched.

Remedy

None. This is an informational message only.

Severity

Info

Message Text

`%area%`:L`%level%`: LSPDB sync succeeded

Message Parameters

Name	Type
area	String
level	uInt

ISIS.Restart.SyncFail

Description

The specified LSPDB failed to synchronize during restart. This could be due to a T2 timeout or a DIS re-election on this level.

Remedy

Check neighboring nodes to ensure restart helper mode support is available. Restart timers may need to be increased.

Severity

Notice

Message Text

`%area%`:L`%level%`: triggered LSPDB sync failed

Message Parameters

Name	Type
area	String
level	uInt

ISIS.Restart.DisChg

Description

A DIS re-election occurred on the specified level, causing restart to fail.

Remedy

It is possible that a second failure occurred in the network during restart which caused the re-election to occur. It could also be that the configuration of a neighbor node changed the priority of interface, causing a DIS re-election.

Severity

Notice

Message Text

`%ifName%`:L`%level%`: DIS change, restart failed

Message Parameters

Name	Type
ifName	String
level	uInt

ISIS.Restart.DisElect

Description

The specified helper DIS was elected on the specified interface and level.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%ifName%`:L`%level%`: restarting helper DIS is now `%disId%`

Message Parameters

Name	Type
ifName	String
level	uInt
disId	String

ISIS.Restart.T3Exp

Description

The T3 - grace period - timer expired. The LSPDBs will now be checked for synchronization.

Remedy

None. This is an informational event only.

Severity

Info

Message Text

T3 Timer Expired

ISIS.Restart.LANIDNoIf

Description

A LANID was preserved for the specified vlan instance, but the instance was not found to be enabled for ISIS.

Remedy

This is a debug message only.

Severity

Debug-Summary

Message Text

ObjID `%objID%` circID `%circID%`: vlan inst `%vlanInst%` not enabled

Message Parameters

Name	Type
objID	uInt
circID	uInt8
vlanInst	xInt32

ISIS.Restart.LANIDTrc

Description

Generic debug message for LAN ID preservation and restoration.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

`%s%`

Message Parameters

Name	Type
s	Printf

ISIS.Restart.LANIDCircIDChg

Description

The specified interface and level was assigned with the specified circuit ID. When restoring LAN IDs, the preserved LAN ID used a different circuit ID. As a result, the interface circuit ID is being changed to match the preserved ID.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%ifName%`:L`%level%`: interface has circuit ID `%ifCircID%` but preserved circuit ID `%preservedCircID%`

Message Parameters

Name	Type
ifName	String
level	uInt
ifCircID	uInt
preservedCircID	uInt

ISIS.Restart.MaxT1ExpExcd

Description

During a graceful restart the specified interface sent the maximum amount of hello packets with the RR bit set without receiving an RA bit from its neighbor. The switch will now send "normal" hellos without the RR bit set for the rest of the restart interval. As a result, the restarting switch may not completely repopulate its LSP database during the restart interval. Ultimately the LSP database will be repaired, but it will take longer than would otherwise and may trigger temporary routing table changes in its peers.

Remedy

This is a normal occurrence if a neighboring switch is not enabled for graceful restart helper support, or if the neighbor does not support graceful restart helper mode at all. If the neighbor supports graceful restart helper mode but is not enabled, enable it.

Severity

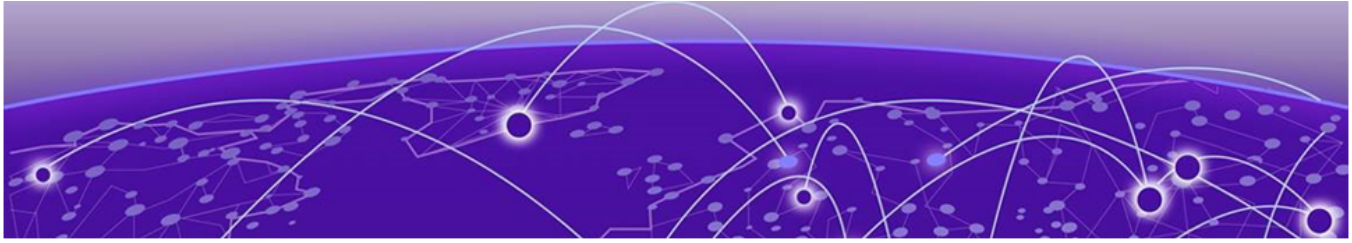
Info

Message Text

`%ifName%:%level%`: T1 timer cancelled, expired more than maximum of `%maxT1Expires%` time(s)

Message Parameters

Name	Type
ifName	String
level	String
maxT1Expires	uInt



ISIS.SPF Messages

ISIS.SPF.PathMaxExc on page 2788
ISIS.SPF.CalcNexthop on page 2789
ISIS.SPF.NoNexthop on page 2790
ISIS.SPF.InvIPIntRch on page 2790
ISIS.SPF.IgnLSP on page 2791
ISIS.SPF.InvProto on page 2791
ISIS.SPF.LSPExist on page 2792
ISIS.SPF.NbrNoLink on page 2793
ISIS.SPF.DumpVert on page 2794
ISIS.SPF.DumpNexthop on page 2794
ISIS.SPF.CalcStart on page 2795
ISIS.SPF.CalcNoSelf on page 2795
ISIS.SPF.CalcNoRoot on page 2796
ISIS.SPF.CalcEnd on page 2797
ISIS.SPF.CalcTimerExp on page 2797
ISIS.SPF.CalcDone on page 2798
ISIS.SPF.CalcSched on page 2798

ISIS.SPF.PathMaxExc

Description

A candidate path was discarded from consideration as a result of its metric exceeding the maximum path metric.

Remedy

This is an informational message.

Severity

Info

Message Text

`%area%`:L`%level%`:`%proto%`: distance(`%distance%`) > `%maxDistance%`

Message Parameters

Name	Type
area	String
level	uInt
proto	String
distance	uInt
maxDistance	uInt

ISIS.SPF.CalcNexthop

Description

The nexthop is being calculated for the specified LSP.

Remedy

None, this is an informational message.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`:`%proto%`: calcuate nexthop for `%lspId%`

Message Parameters

Name	Type
area	String
level	uInt
proto	String
lspId	String

ISIS.SPF.NoNexthop

Description

No interface provides a nexthop for the specified lsp id.

Remedy

None. This is an informational message.

Severity

Info

Message Text

`%area%`:L`%level%`: Can't find nexthop for `%lspId%`

Message Parameters

Name	Type
area	String
level	uInt
lspId	String

ISIS.SPF.InvIPIntRch

Description

The IP Internal Reachability TLV for the specified IP address has the E bit set, which is incorrect. It is reserved and should always be zero. This TLV was ignored as a result.

Remedy

This may be an indicator of an incorrect implementation of ISIS running in the network.

Severity

Info

Message Text

`%area%`:L`%level%`:`%proto%`: IP internal reachability (`%addr%`) E bit is set

Message Parameters

Name	Type
area	String
level	uInt
proto	String
addr	IP

ISIS.SPF.IgnLSP

Description

The specified LSP was skipped while iterating through the LSP Database for the specified reason.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`:`%proto%`: LSP `%lspId%` `%reason%`, ignored

Message Parameters

Name	Type
area	String
level	uInt
proto	String
lspId	String
reason	String

ISIS.SPF.InvProto

Description

A protocol check failed on the specified LSP for the specified reason.

Remedy

This could indicate an implementation bug on the originating router or an IP v4/v6 misconfiguration.

Severity

Info

Message Text

`%area%`:L`%level%`:`%proto%`: LSP `%lspId%` `%errMsg%`

Message Parameters

Name	Type
area	String
level	uInt
proto	String
lspId	String
errMsg	String

ISIS.SPF.LSPExist

Description

The specified vertex has already been considered.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`:`%proto%`: LSP `%lspId%` is already in SPF tree

Message Parameters

Name	Type
area	String
level	uInt
proto	String
lspId	String

ISIS.SPF.NbrNoLink

Description

The specified neighbor listed as a neighbor in the specified lsp id does not have a link to the lsp id. This means that one node claims to be a neighbor of the other, but the other disagrees.

Remedy

The network is converging. If the situation persists, timers may need to be adjusted for faster converging.

Severity

Info

Message Text

`%area%`:L`%level%`:`%proto%`: NBR `%nbrLspId%` does not have a link back to `%lspId%`

Message Parameters

Name	Type
area	String
level	uInt
proto	String
nbrLspId	String
lspId	String

ISIS.SPF.DumpVert

Description

Debug only message - part of a series of dump messages that displays vertices and nexthops.

Remedy

None. This is a debug message.

Severity

Debug-Verbose

Message Text

`%area%`:L`%level%`:`%proto%`: IS-Vertex (`%pseudo%`:`%depth%`) `%lspId%`

Message Parameters

Name	Type
area	String
level	uInt
proto	String
pseudo	String
depth	uInt
lspId	String

ISIS.SPF.DumpNexthop

Description

Debug only message, part of a series of messages that dump vertices and nexthops.

Remedy

None. This is a debug message.

Severity

Debug-Verbose

Message Text

nexthop-IS `%sysId%`

Message Parameters

Name	Type
sysId	String

ISIS.SPF.CalcStart

Description

An SPF calculation started for the specified area, level, and protocol.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`:`%proto%`: calculation started

Message Parameters

Name	Type
area	String
level	uInt
proto	String

ISIS.SPF.CalcNoSelf

Description

An SPF calculation was not performed because the self-LSP has not yet been generated for this area.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`:`%proto%`: calculation stopped, no self-LSP

Message Parameters

Name	Type
area	String
level	uInt
proto	String

ISIS.SPF.CalcNoRoot

Description

An SPF calculation was not performed because either a self-LSP was not found or it was invalid.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`:`%proto%`: calculation stopped, no valid root node found

Message Parameters

Name	Type
area	String
level	uInt
proto	String

ISIS.SPF.CalcEnd

Description

An SPF calculation for the specified area, level, and protocol completed.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`:`%proto%`: calculation (END)

Message Parameters

Name	Type
area	String
level	uInt
proto	String

ISIS.SPF.CalcTimerExp

Description

The SPF interval has been reached. An SPF calculation is beginning as a result.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`: calculation timer expired

Message Parameters

Name	Type
area	String
level	uInt

ISIS.SPF.CalcDone

Description

An SPF calculation for the specified area and level completed in the time indicated.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%area%`:L`%level%`: calculation completed [`%secs%` s, `%usecs%` us]

Message Parameters

Name	Type
area	String
level	uInt
secs	uInt
usecs	uInt

ISIS.SPF.CalcSched

Description

An SPF calculation for the specified area and level has been scheduled.

Remedy

None. This is an informational message.

Severity

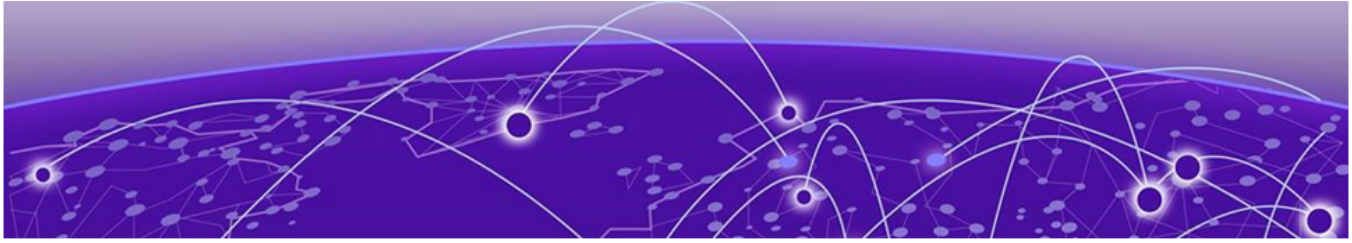
Debug-Summary

Message Text

`%area%`:L`%level%`: calculation scheduled in `%secs%` secs, `%usecs%` usecs

Message Parameters

Name	Type
area	String
level	uInt
secs	uInt
usecs	uInt



ISIS.VLAN Messages

ISIS.VLAN.IfUp on page 2800
ISIS.VLAN.IfDown on page 2801
ISIS.VLAN.IfDownErr on page 2802
ISIS.VLAN.IfAddrAdd on page 2802
ISIS.VLAN.IfAddrDel on page 2803
ISIS.VLAN.NoVR on page 2803
ISIS.VLAN.VRIDMismatch on page 2804
ISIS.VLAN.IfNameNotFound on page 2804
ISIS.VLAN.IfCreateFail on page 2805
ISIS.VLAN.IfUnbindFail on page 2805
ISIS.VLAN.IfNotFound on page 2806
ISIS.VLAN.IfInstNotFound on page 2807
ISIS.VLAN.IfProtoEnDis on page 2807
ISIS.VLAN.IfProtoEnDisFail on page 2808
ISIS.VLAN.VRCreateFail on page 2808
ISIS.VLAN.VRCreateDupe on page 2809
ISIS.VLAN.IfTrc on page 2810

ISIS.VLAN.IfUp

Description

The specified link transitioned to the up state.

Remedy

None, this is an informational message only.

Severity

Debug-Summary

Message Text

`%ifName%`: link state change to up, index `%index%` flags `%flags%` metric `%metric%` mtu `%mtu%`

Message Parameters

Name	Type
ifName	String
index	uInt
flags	xInt32
metric	uInt
mtu	uInt

ISIS.VLAN.IfDown

Description

The specified link transitioned to the down state.

Remedy

None, this is an informational message only.

Severity

Debug-Summary

Message Text

`%ifName%`: link state change to down, index `%index%` flags `%flags%` metric `%metric%` mtu `%mtu%`

Message Parameters

Name	Type
ifName	String
index	uInt
flags	xInt32
metric	uInt
mtu	uInt

ISIS.VLAN.IfDownErr

Description

An interface state change to down occurred on an interface that was already marked as down.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%ifName%`: if_down error - interface already down

Message Parameters

Name	Type
ifName	String

ISIS.VLAN.IfAddrAdd

Description

An address is being added to the specified interface and interface index.

Remedy

None, this is an informational message only.

Severity

Debug-Summary

Message Text

`%ifName%`: interface address add index `%index%`

Message Parameters

Name	Type
ifName	String
index	uInt

ISIS.VLAN.IfAddrDel

Description

An address is being deleted from the specified interface and interface index.

Remedy

None, this is an informational message only.

Severity

Debug-Summary

Message Text

`%ifName%`: interface address delete index `%index%`

Message Parameters

Name	Type
ifName	String
index	uInt

ISIS.VLAN.NoVR

Description

An event occurred requiring the accessing of a VR-specific structure. The structure is missing, indicating IS-IS did not properly initialize or a software bug.

Remedy

The ISIS process may need to be restarted. If the problem persists, contact TAC.

Severity

Warning

Message Text

`%action%`: no VR structure for id `%vrId%`

Message Parameters

Name	Type
action	String
vrId	uInt

ISIS.VLAN.VRIDMismatch

Description

An internal error occurred.

Remedy

The ISIS process may need to be restarted. If the problem persists, contact TAC.

Severity

Warning

Message Text

VR ID mismatch - expected `%have%`, received `%got%`

Message Parameters

Name	Type
got	uInt
have	uInt

ISIS.VLAN.IfNameNotFound

Description

An internal lookup failed while processing an event for the specified VLAN.

Remedy

This indicates a software bug. The ISIS process may need to be restarted. Please contact TAC if the problem persists.

Severity

Warning

Message Text

`%vlanName%` not found in VLAN lib

Message Parameters

Name	Type
vlanName	String

ISIS.VLAN.IfCreateFail

Description

The specified interface could not be created in the IS-IS database. As a result, the interface will not work properly with IS-IS.

Remedy

If there is no other log message indicating that the vlan name was not found, the switch may be running low on memory.

Severity

Warning

Message Text

Failed to create `%ifName%`

Message Parameters

Name	Type
ifName	String

ISIS.VLAN.IfUnbindFail

Description

An internal error occurred while unbinding an interface from the specified area. The supplied error message should provide more details as to the specific problem.

Remedy

This could indicate a software bug.

Severity

Warning

Message Text

Error unbinding `%ifName%` from area `%areaName%`: `%errMsg%`

Message Parameters

Name	Type
ifName	String
areaName	String
errMsg	String

ISIS.VLAN.IfNotFound

Description

The specified interface could not be found in the ISIS interface database.

Remedy

If this is an interface that is desired to be ISIS-enabled, try unconfiguring the interface and reconfiguring it. The ISIS process may need to be restarted. The switch's resources may be low, preventing the addition of the interface to the database. If the problem persists, contact TAC.

Severity

Warning

Message Text

`%ifName%` not found in ISIS ifdb

Message Parameters

Name	Type
ifName	String

ISIS.VLAN.IfInstNotFound

Description

An internal lookup failed while processing an event for the specified VLAN.

Remedy

This indicates a software bug. The ISIS process may need to be restarted. Please contact TAC if the problem persists.

Severity

Warning

Message Text

VLAN inst `%vlanInst%` not found in VLAN lib

Message Parameters

Name	Type
vlanInst	xInt32

ISIS.VLAN.IfProtoEnDis

Description

The specified protocol is being enabled or disabled on the specified ISIS-enabled interface.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

`%enDis%` `%proto%` on `%ifName%`

Message Parameters

Name	Type
enDis	String
proto	String
ifName	String

ISIS.VLAN.IfProtoEnDisFail

Description

The specified protocol failed to enable or disable on the specified ISIS interface.

Remedy

The message supplied contains additional information that indicates the nature of the error.

Severity

Warning

Message Text

`%enDis%` `%proto%` on `%ifName%` failed: `%errMsg%`

Message Parameters

Name	Type
enDis	String
proto	String
ifName	String
errMsg	String

ISIS.VLAN.VRCreateFail

Description

The specified VR could not be created in the ISIS application.

Remedy

The switch may be running out of resources, or a software bug may be present.

Severity

Warning

Message Text

Failed to create VR `%VRName%` (ID `%VRID%`) in ISIS

Message Parameters

Name	Type
VRID	uInt
VRName	String

ISIS.VLAN.VRCreateDupe

Description

The specified VR could not be created in the ISIS application. Another VR is using the specified ID.

Remedy

This indicates a software bug.

Severity

Warning

Message Text

Failed to create VR `%VRName%` (ID `%VRID%`) in ISIS, another VR (`%otherVRName%`) is using this ID

Message Parameters

Name	Type
VRID	uInt
VRName	String
otherVRName	String

ISIS.VLAN.IfTrc

Description

Debug message.

Remedy

None. Debug message.

Severity

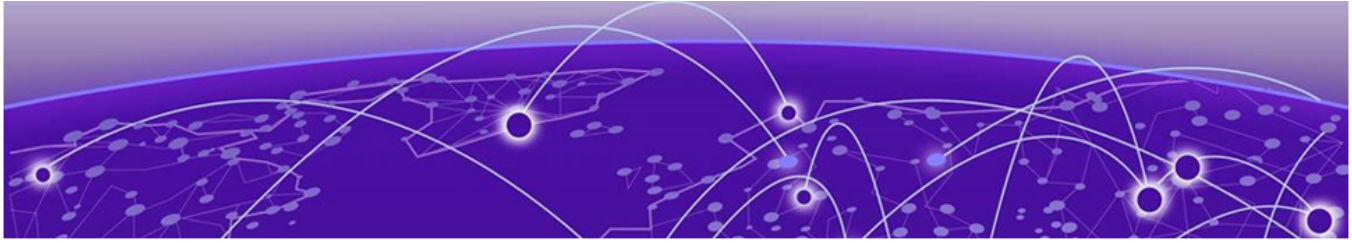
Debug-Summary

Message Text

```
%fmt%
```

Message Parameters

Name	Type
fmt	Printf



KeychainMgr Messages

KeychainMgr.AllocMemFail on page 2811
KeychainMgr.RegClntOK on page 2812
KeychainMgr.RegClntFail on page 2812
KeychainMgr.UnregClntOK on page 2813
KeychainMgr.UnregClntFail on page 2814
KeychainMgr.KeyActv on page 2814
KeychainMgr.KeyExp on page 2815
KeychainMgr.SendClntKeyNtfyFail on page 2815
KeychainMgr.SendSrvrReplyFail on page 2816

KeychainMgr.AllocMemFail

Description

This event occurs when memory allocation fails for specific object types. object: Object to allocate

Remedy

System is out of memory. Reducing system configuration may help reclaim memory. Use output of "show memory" to determine which processes are using the most memory.

Severity

Error

Message Text

Failed to allocate memory for `%object%`.

Message Parameters

Name	Type
object	String

KeychainMgr.RegClntOK

Description

This event occurs when a client successfully registers with a keychain. The client will receive key event notifications for the keychain until it unregisters. client: Client name name: Keychain name

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Client `%client%` successfully registered with keychain `%name%`.

Message Parameters

Name	Type
client	String
name	String

KeychainMgr.RegClntFail

Description

This event occurs when a client fails to register with a keychain. client: Client name name: Keychain name

Remedy

The keychain could not be found or the client process is not initialiazed correctly. Check "show keychain" output to see if keychain exists. Restart the client process to reset client connection to Keychin Manager. If the issue persists, contact technical support with "show tech" output.

Severity

Error

Message Text

Client `%client%` failed to register with keychain `%name%`.

Message Parameters

Name	Type
client	String
name	String

KeychainMgr.UnregClntOK

Description

This event occurs when a client successfully unregisters from a keychain. The client will stop receiving key event notifications for this keychain. client: Client name name: Keychain name

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Client `%client%` successfully unregistered from keychain `%name%`.

Message Parameters

Name	Type
client	String
name	String

KeychainMgr.UnregClntFail

Description

This event occurs when a client fails to unregister from a keychain because the keychain could not be found. client: Client name name: Keychain name

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Warning

Message Text

Client `%client%` failed to unregister from keychain `%name%`.

Message Parameters

Name	Type
client	String
name	String

KeychainMgr.KeyActv

Description

This event occurs when a key in a keychain becomes active. id: Key identifier name: Keychain name

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Key `%id%` in keychain `%name%` is active.

Message Parameters

Name	Type
id	uInt
name	String

KeychainMgr.KeyExp

Description

This event occurs when a key in a keychain expires. id: Key identifier name: Keychain name

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Key `%id%` expired in keychain `%name%`.

Message Parameters

Name	Type
id	uInt
name	String

KeychainMgr.SendClntKeyNtfyFail

Description

This event occurs when a key event notification could not be sent to some or all keychain clients using IPML group send. msg: Key event name: Keychain name failed: Number of failed clients count: Total number of clients of keychain

Remedy

If send failed to some clients but not all then unregister the clients from the keychain and register them again or restart the client processes. If that does not work or send failed for all clients then reboot the switch.

Severity

Error

Message Text

Failed to send key event notification message %msg% for keychain %name% to %failed% out of %count% clients.

Message Parameters

Name	Type
msg	String
name	String
failed	sInt
count	sInt

KeychainMgr.SendSrvrReplyFail

Description

This event occurs when the server fails to send a reply using IPML send to a client request. msg: Server message name: Keychain name peer: IPML peer ID code: IPML error code

Remedy

Unregister from keychain and register again. If that does not work then restart the client process or reboot the switch.

Severity

Error

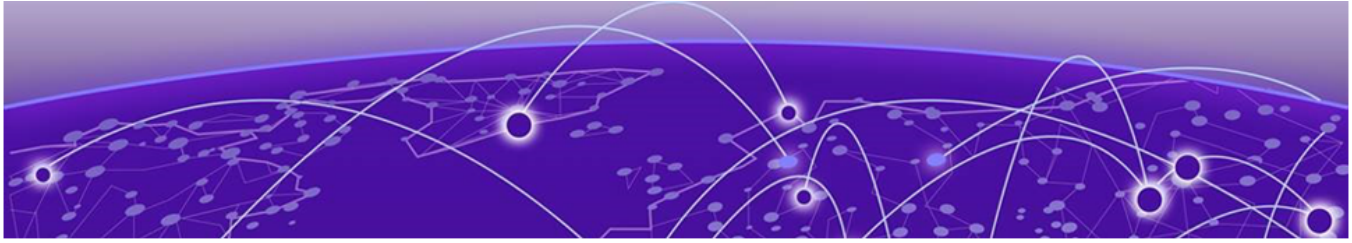
Message Text

Failed to send %msg% for keychain %name% to peer %peer%, IPML error code %code%.

Message Parameters

Name	Type
msg	String
name	String

Name	Type
peer	uInt
code	sInt



Kern Messages

Kern.Emergency on page 2818
Kern.Alert on page 2819
Kern.Critical on page 2819
Kern.Error on page 2820
Kern.Warning on page 2821
Kern.Notice on page 2822
Kern.Info on page 2822
Kern.Debug on page 2823

Kern.Emergency

Description

The EXOS kernel has logged a message of severity 'Emergency'. This event is due to a problem that should not happen during normal operation. The EXOS kernel is the lowest level of software, but handles a wide range of responsibilities. Protocols, hardware device management, filesystems, and low-level memory management, are just a few of those responsibilities. Many different messages and causes map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: kernel panic messages and any other anomalous messages seen on the serial console, a record of all log messages (show tech all), and any core dump files (which will need to be transferred off the switch).

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
Parameter	Printf

Kern.Alert

Description

The EXOS kernel has logged a message of severity 'Alert'. This event is due to a problem that should not happen during normal operation. The EXOS kernel is the lowest level of software, but handles a wide range of responsibilities. Protocols, hardware device management, filesystems, and low-level memory management, are just a few of those responsibilities. Many different messages and causes map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: kernel panic messages and any other anomalous messages seen on the serial console, a record of all log messages (show tech all), and any core dump files (which will need to be transferred off the switch).

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
Parameter	Printf

Kern.Critical

Description

The EXOS kernel has logged a message of severity 'Critical'. This event is due to a problem that should not happen during normal operation. The EXOS kernel is the lowest level of software, but handles a wide range of responsibilities. Protocols, hardware device management, filesystems, and low-level memory management, are

just a few of those responsibilities. Many different messages and causes map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: kernel panic messages and any other anomalous messages seen on the serial console, a record of all log messages (show tech all), and any core dump files (which will need to be transferred off the switch).

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
Parameter	Printf

Kern.Error

Description

The EXOS kernel has logged a message of severity 'Error'. This event is due to a problem that should not happen during normal operation. The EXOS kernel is the lowest level of software, but handles a wide range of responsibilities. Protocols, hardware device management, filesystems, and low-level memory management, are just a few of those responsibilities. Many different messages and causes map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: kernel panic messages and any other anomalous messages seen on the serial console, a record of all log messages (show tech all), and any core dump files (which will need to be transferred off the switch).

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
Parameter	Printf

Kern.Warning

Description

The EXOS kernel has logged a message of severity 'Warning'. This event is due to a problem that should not happen during normal operation. The EXOS kernel is the lowest level of software, but handles a wide range of responsibilities. Protocols, hardware device management, filesystems, and low-level memory management, are just a few of those responsibilities. Many different messages and causes map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: kernel panic messages and any other anomalous messages seen on the serial console, a record of all log messages (show tech all), and any core dump files (which will need to be transferred off the switch).

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
Parameter	Printf

Kern.Notice

Description

The EXOS kernel logged a message of severity 'Notice'.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
Parameter	Printf

Kern.Info

Description

The EXOS kernel logged a message of severity 'Info'.

Remedy

No action required - Information message only.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
Parameter	Printf

Kern.Debug

Description

The EXOS kernel logged a message of severity 'Debug'.

Remedy

No action required - Debug message only.

Severity

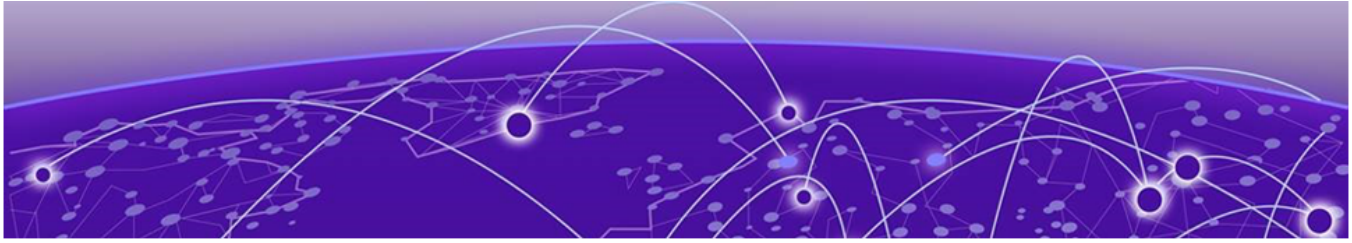
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
Parameter	Printf



Kern.BFD Messages

Kern.BFD.Error on page 2824
Kern.BFD.Warning on page 2825
Kern.BFD.Notice on page 2825
Kern.BFD.Info on page 2826
Kern.BFD.Debug on page 2826

Kern.BFD.Error

Description

BFD processing on specified slot logged a message of severity 'Error'.

Remedy

If the error message indicates no memory on the system, remove some configuration on the system may solve the problem. Other error messages usually indicate software error, which should not happen in normal operation. Contact technical support with "show tech" output.

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.BFD.Warning

Description

BFD processing on specified slot logged a message of severity 'Warning'.

Remedy

The warning message is generated due to failure of operations in other components. Please look for previous error or warning messages for resolution.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.BFD.Notice

Description

BFD processing on specified slot logged a message of severity 'Notice'.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.BFD.Info

Description

BFD processing on specified slot logged a message of severity 'Info'.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.BFD.Debug

Description

BFD processing on specified slot logged a message of severity 'Debug'.

Remedy

No action required - Informational message only.

Severity

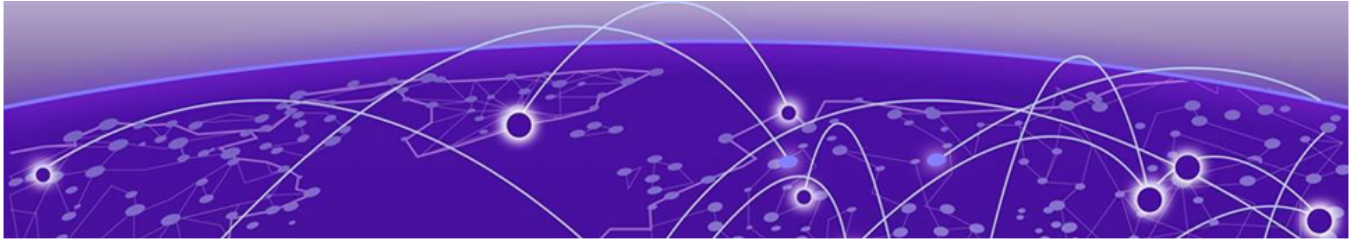
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.Card Messages

Kern.Card.Emergency on page 2828
Kern.Card.Alert on page 2829
Kern.Card.Critical on page 2830
Kern.Card.Error on page 2830
Kern.Card.Warning on page 2831
Kern.Card.Notice on page 2832
Kern.Card.Info on page 2832
Kern.Card.Debug on page 2833

Kern.Card.Emergency

Description

The EXOS kernel on the specified slot has logged a message of severity 'Emergency'. This event is due to a problem that should not happen during normal operation. The EXOS kernel is the lowest level of software, but handles a wide range of responsibilities. Protocols, hardware device management, filesystems, and low-level memory management, are just a few of those responsibilities. Many different messages and causes map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: kernel panic messages and any other anomalous messages seen on the serial console, a record of all log messages (show tech all), and any core dump files (which will need to be transferred off the switch).

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.Card.Alert

Description

The EXOS kernel on the specified slot has logged a message of severity 'Alert'.
This event is due to a problem that should not happen during normal operation.
The EXOS kernel is the lowest level of software, but handles a wide range of responsibilities. Protocols, hardware device management, filesystems, and low-level memory management, are just a few of those responsibilities. Many different messages and causes map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: kernel panic messages and any other anomalous messages seen on the serial console, a record of all log messages (show tech all), and any core dump files (which will need to be transferred off the switch).

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.Card.Critical

Description

The EXOS kernel on the specified slot has logged a message of severity 'Critical'.
This event is due to a problem that should not happen during normal operation.
The EXOS kernel is the lowest level of software, but handles a wide range of responsibilities. Protocols, hardware device management, filesystems, and low-level memory management, are just a few of those responsibilities. Many different messages and causes map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: kernel panic messages and any other anomalous messages seen on the serial console, a record of all log messages (show tech all), and any core dump files (which will need to be transferred off the switch).

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.Card.Error

Description

The EXOS kernel on the specified slot has logged a message of severity 'Error'.
This event is due to a problem that should not happen during normal operation.
The EXOS kernel is the lowest level of software, but handles a wide range of responsibilities. Protocols, hardware device management, filesystems, and low-level memory management, are just a few of those responsibilities. Many different messages and causes map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: kernel panic messages and any other anomalous messages seen on the serial console, a record of all log messages (show tech all), and any core dump files (which will need to be transferred off the switch).

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.Card.Warning

Description

The EXOS kernel on the specified slot has logged a message of severity 'Warning'. This event is due to a problem that should not happen during normal operation. The EXOS kernel is the lowest level of software, but handles a wide range of responsibilities. Protocols, hardware device management, filesystems, and low-level memory management, are just a few of those responsibilities. Many different messages and causes map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: kernel panic messages and any other anomalous messages seen on the serial console, a record of all log messages (show tech all), and any core dump files (which will need to be transferred off the switch).

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.Card.Notice

Description

The EXOS kernel on the specified slot logged a message of severity 'Notice'.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.Card.Info

Description

The EXOS kernel on the specified slot logged a message of severity 'Info'.

Remedy

No action required - Information message only.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.Card.Debug

Description

The EXOS kernel on the specified slot logged a message of severity 'Debug'.

Remedy

No action required - Debug message only.

Severity

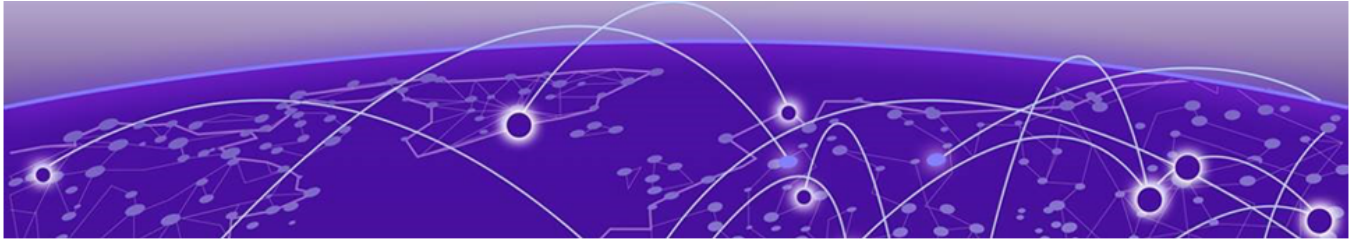
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.IPv4Adj Messages

Kern.IPv4Adj.Error on page 2834
Kern.IPv4Adj.Warning on page 2835
Kern.IPv4Adj.Notice on page 2835
Kern.IPv4Adj.Info on page 2836
Kern.IPv4Adj.Debug on page 2836

Kern.IPv4Adj.Error

Description

The EXOS IPv4 Adjacency processing software on the specified slot has logged a message of severity 'Error'. This event is due to a problem that should not happen during normal operation. Many different messages and causes in IPv4 Adjacency processing map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: a record of all log messages, any core dump files which will need to be transferred off the switch, and the output of these CLI commands "show iparp 1.1.1.1", "show iproute reserved-entries statistics", "debug hal show ipv4adj nhop 1.1.1.1", "debug hal show ipv4adj nhop 1.1.1.1 slot <slotNum_shown_in_event>", "show iparp", "debug hal show ipv4adj", "debug hal show ipv4adj slot <slotNum_shown_in_event>".

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4Adj.Warning

Description

IPv4 Adjacency processing on specified slot logged a message of severity 'Warning'.

Remedy

No remedy is available.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4Adj.Notice

Description

IPv4 Adjacency processing on specified slot logged a message of severity 'Notice'.

Remedy

No remedy is available.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4Adj.Info

Description

IPv4 Adjacency processing on specified slot logged a message of severity 'Info'.

Remedy

No remedy is available.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4Adj.Debug

Description

IPv4 Adjacency processing on specified slot logged a message of severity 'Debug'.

Remedy

No remedy is available.

Severity

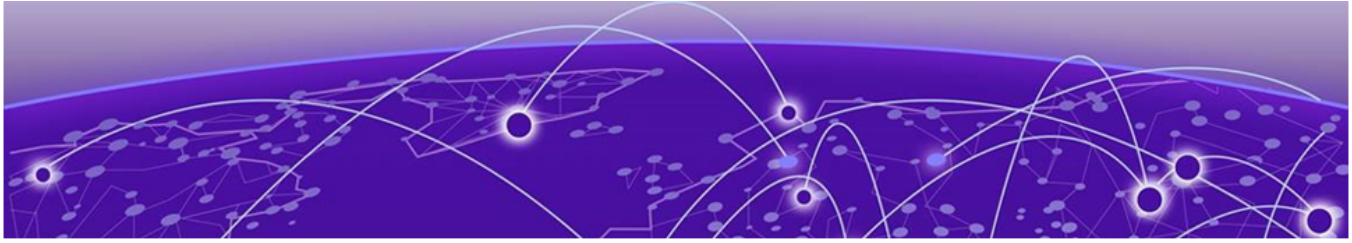
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.IPv4FIB Messages

Kern.IPv4FIB.Error on page 2838
Kern.IPv4FIB.Warning on page 2839
Kern.IPv4FIB.Notice on page 2839
Kern.IPv4FIB.Info on page 2840
Kern.IPv4FIB.Debug on page 2840

Kern.IPv4FIB.Error

Description

The EXOS IPv4 Forwarding Information Base (FIB) processing software on the specified slot has logged a message of severity 'Error'. This event is due to a problem that should not happen during normal operation. Many different messages and causes in IPv4 FIB processing map to this one EMS event.

Remedy

Look to the message that accompanies this event for a description of the underlying problem. You will often find other related, and relevant, events before and after this one. The following items are required to further investigate the event: a record of all log messages, any core dump files which will need to be transferred off the switch, and the output of these CLI commands "show iproute summary", "show ipconfig", "show iproute reserved-entries statistics", "debug hal show ipv4fib dest 1.1.1.1", "debug hal show ipv4fib dest 1.1.1.1 slot <slotNum_shown_in_event>", "show iproute", "debug hal show ipv4fib", "debug hal show ipv4fib slot <slotNum_shown_in_event>".

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4FIB.Warning

Description

IPv4 FIB processing on specified slot logged a message of severity 'Warning'.

Remedy

No remedy is available.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4FIB.Notice

Description

IPv4 FIB processing on specified slot logged a message of severity 'Notice'.

Remedy

No remedy is available.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4FIB.Info

Description

IPv4 FIB processing on specified slot logged a message of severity 'Info'.

Remedy

No remedy is available.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4FIB.Debug

Description

IPv4 FIB processing on specified slot logged a message of severity 'Debug'.

Remedy

No remedy is available.

Severity

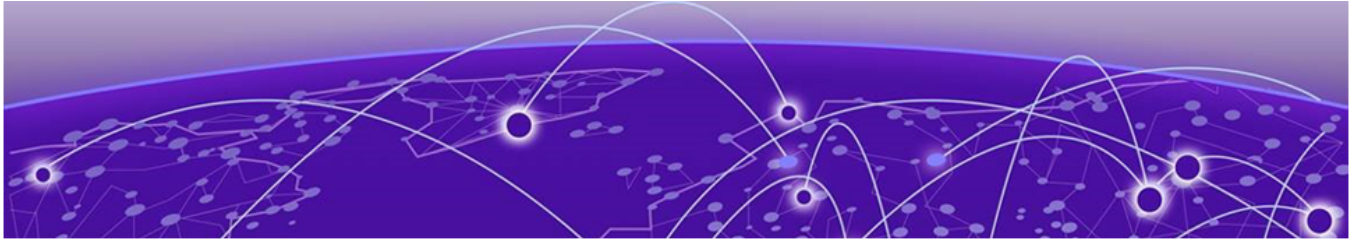
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.IPv4Mc Messages

Kern.IPv4Mc.Error on page 2842
Kern.IPv4Mc.Warning on page 2843
Kern.IPv4Mc.Notice on page 2843
Kern.IPv4Mc.Info on page 2844
Kern.IPv4Mc.Debug on page 2844

Kern.IPv4Mc.Error

Description

IPv4 multicast processing on the specified slot logged a message of severity 'Error'. The text included in the log message describes the error and the extent of the possible impact.

Remedy

Use "debug hal show ipv4mc" to further troubleshoot the issue. If this issue appears to impact network performance, a slot reboot might clear the condition.

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4Mc.Warning

Description

IPv4 Multicast processing on specified slot logged a message of severity 'Warning'.

Remedy

No remedy is available.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4Mc.Notice

Description

IPv4 Multicast processing on specified slot logged a message of severity 'Notice'.

Remedy

No remedy is available.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4Mc.Info

Description

IPv4 Multicast processing on specified slot logged a message of severity 'Info'.

Remedy

No remedy is available.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv4Mc.Debug

Description

IPv4 Multicast processing on specified slot logged a message of severity 'Debug'.

Remedy

No remedy is available.

Severity

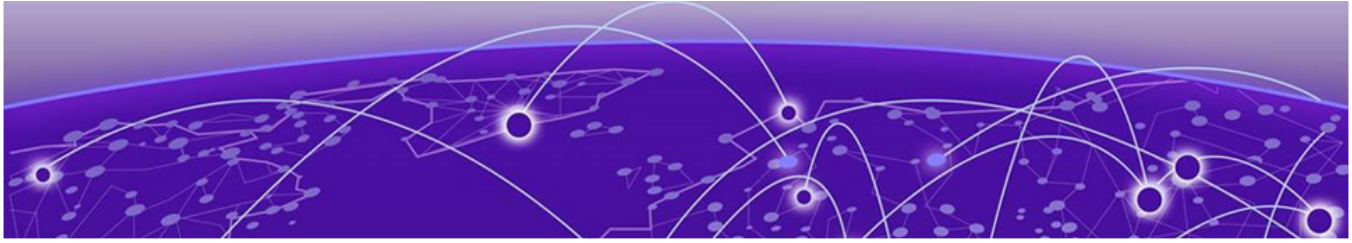
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.IPv6Adj Messages

Kern.IPv6Adj.Error on page 2846
Kern.IPv6Adj.Warning on page 2847
Kern.IPv6Adj.Notice on page 2847
Kern.IPv6Adj.Info on page 2848
Kern.IPv6Adj.Debug on page 2848

Kern.IPv6Adj.Error

Description

IPv6 Adjacency processing on specified slot logged a message of severity 'Error'.

Remedy

Please contact Extreme Networks Tech Support, as this may indicate a problem.

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6Adj.Warning

Description

IPv6 Adjacency processing on specified slot logged a message of severity 'Warning'.

Remedy

No remedy is available.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6Adj.Notice

Description

IPv6 Adjacency processing on specified slot logged a message of severity 'Notice'.

Remedy

No remedy is available.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6Adj.Info

Description

IPv6 Adjacency processing on specified slot logged a message of severity 'Info'.

Remedy

No remedy is available.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6Adj.Debug

Description

IPv6 Adjacency processing on specified slot logged a message of severity 'Debug'.

Remedy

No remedy is available.

Severity

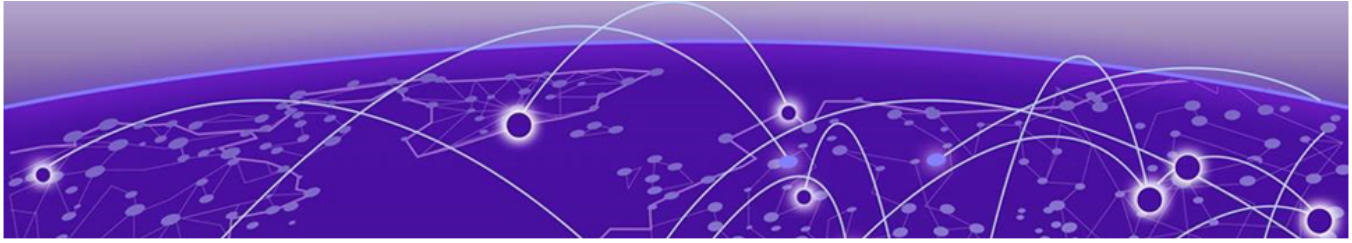
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.IPv6FIB Messages

Kern.IPv6FIB.Error on page 2850
Kern.IPv6FIB.Warning on page 2851
Kern.IPv6FIB.Notice on page 2851
Kern.IPv6FIB.Info on page 2852
Kern.IPv6FIB.Debug on page 2852

Kern.IPv6FIB.Error

Description

IPv6 FIB processing on specified slot logged a message of severity 'Error'.

Remedy

Please contact Extreme Networks Tech Support, as this may indicate a problem.

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6FIB.Warning

Description

IPv6 FIB processing on specified slot logged a message of severity 'Warning'.

Remedy

No remedy is available.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6FIB.Notice

Description

IPv6 FIB processing on specified slot logged a message of severity 'Notice'.

Remedy

No remedy is available.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6FIB.Info

Description

IPv6 FIB processing on specified slot logged a message of severity 'Info'.

Remedy

No remedy is available.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6FIB.Debug

Description

IPv6 FIB processing on specified slot logged a message of severity 'Debug'.

Remedy

No remedy is available.

Severity

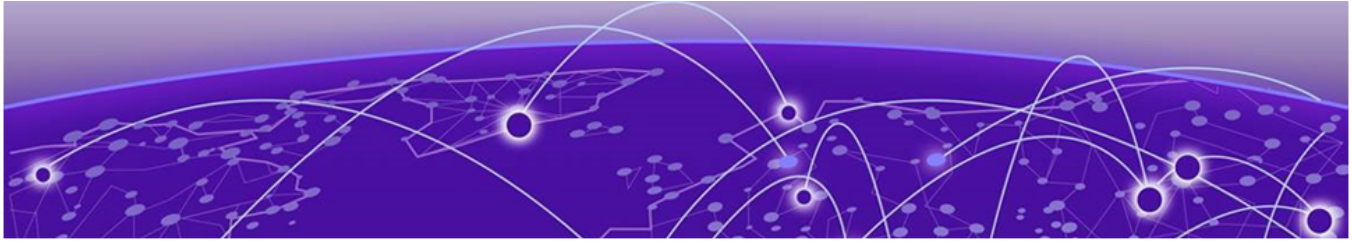
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.IPv6Mc Messages

Kern.IPv6Mc.Error on page 2854
Kern.IPv6Mc.Warning on page 2855
Kern.IPv6Mc.Notice on page 2855
Kern.IPv6Mc.Info on page 2856
Kern.IPv6Mc.Debug on page 2856

Kern.IPv6Mc.Error

Description

IPv6 multicast processing on the specified slot logged a message of severity 'Error'. The text included in the log message describes the error and the extent of the possible impact.

Remedy

Use "debug hal show ipv6mc" to further troubleshoot the issue. If this issue appears to impact network performance, a slot reboot might clear the condition.

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6Mc.Warning

Description

IPv6 Multicast processing on specified slot logged a message of severity 'Warning'.

Remedy

No remedy is available.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6Mc.Notice

Description

IPv6 Multicast processing on specified slot logged a message of severity 'Notice'.

Remedy

No remedy is available.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6Mc.Info

Description

IPv6 Multicast processing on specified slot logged a message of severity 'Info'.

Remedy

No remedy is available.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.IPv6Mc.Debug

Description

IPv6 Multicast processing on specified slot logged a message of severity 'Debug'.

Remedy

No remedy is available.

Severity

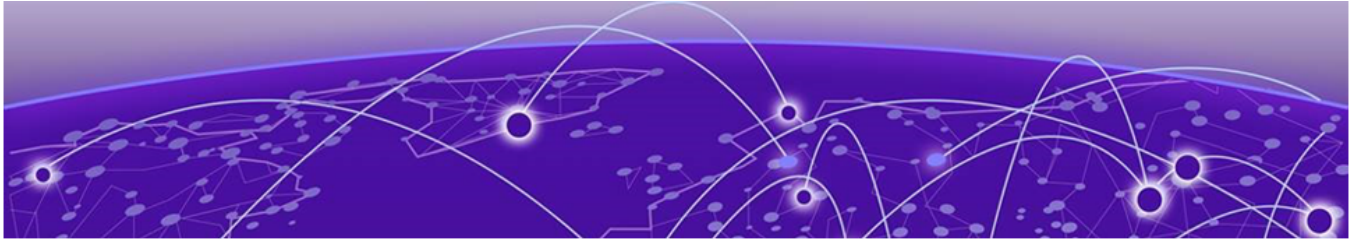
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.MPLS Messages

Kern.MPLS.Emergency on page 2858
Kern.MPLS.Alert on page 2859
Kern.MPLS.Critical on page 2859
Kern.MPLS.Error on page 2860
Kern.MPLS.Warning on page 2860
Kern.MPLS.Notice on page 2861
Kern.MPLS.Info on page 2861
Kern.MPLS.Debug on page 2862

Kern.MPLS.Emergency

Description

MPLS processing on specified slot logged a message of severity 'Emergency'.

Remedy

Please contact Extreme Networks Tech Support, as this should not happen during normal opperation.

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.MPLS.Alert

Description

MPLS processing on specified slot logged a message of severity 'Alert'.

Remedy

Please contact Extreme Networks Tech Support, as this should not happen during normal opperation.

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.MPLS.Critical

Description

MPLS processing on specified slot logged a message of severity 'Critical'.

Remedy

Please contact Extreme Networks Tech Support, as this should not happen during normal opperation.

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.MPLS.Error

Description

MPLS processing on specified slot logged a message of severity 'Error'.

Remedy

Please contact Extreme Networks Tech Support, as this may indicate a problem.

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.MPLS.Warning

Description

MPLS processing on specified slot logged a message of severity 'Warning'.

Remedy

No remedy is available.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.MPLS.Notice

Description

MPLS processing on specified slot logged a message of severity 'Notice'.

Remedy

No remedy is available.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.MPLS.Info

Description

MPLS processing on specified slot logged a message of severity 'Info'.

Remedy

No remedy is available.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.MPLS.Debug

Description

MPLS processing on specified slot logged a message of severity 'Debug'.

Remedy

No remedy is available.

Severity

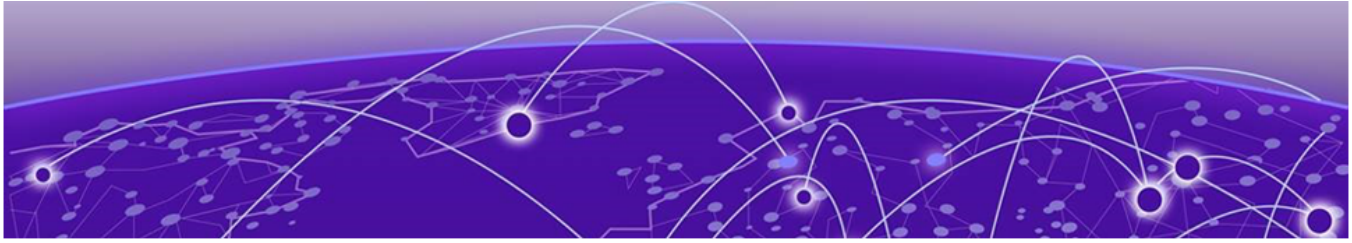
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.PTP Messages

Kern.PTP.Error on page 2863
Kern.PTP.Warning on page 2864
Kern.PTP.Notice on page 2864
Kern.PTP.Info on page 2865
Kern.PTP.Debug on page 2865

Kern.PTP.Error

Description

PTP processing on specified slot logged a message of severity 'Error'.

Remedy

If the error message indicates no memory on the system, remove some configuration on the system may solve the problem. Other error messages usually indicate software error, which should not happen in normal operation. Contact technical support with "show tech" output.

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.PTP.Warning

Description

PTP processing on specified slot logged a message of severity 'Warning'.

Remedy

The warning message is generated due to failure of operations in other components. Please look for previous error or warning messages for resolution.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.PTP.Notice

Description

PTP processing on specified slot logged a message of severity 'Notice'.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.PTP.Info

Description

PTP processing on specified slot logged a message of severity 'Info'.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.PTP.Debug

Description

PTP processing on specified slot logged a message of severity 'Debug'.

Remedy

No action required - Informational message only.

Severity

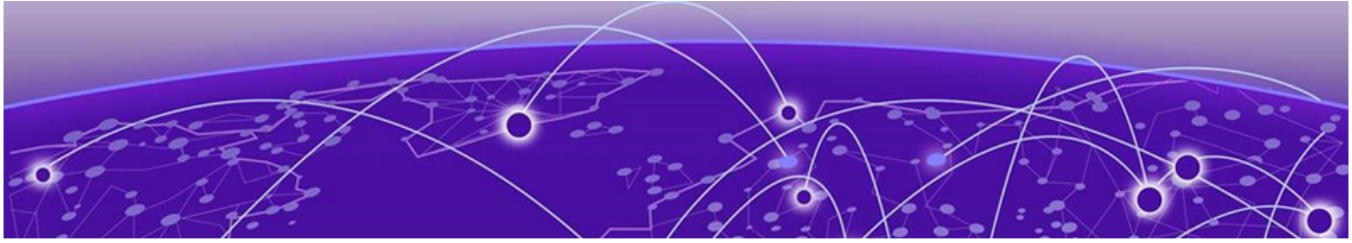
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.SyncE Messages

Kern.SyncE.Error on page 2867
Kern.SyncE.Warning on page 2868
Kern.SyncE.Notice on page 2868
Kern.SyncE.Info on page 2869
Kern.SyncE.Debug on page 2869

Kern.SyncE.Error

Description

SyncE processing on specified slot logged a message of severity 'Error'.

Remedy

If the error message indicates no memory on the system, remove some configuration on the system may solve the problem. Other error messages usually indicate software error, which should not happen in normal operation. Contact technical support with "show tech" output.

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.SyncE.Warning

Description

SyncE processing on specified slot logged a message of severity 'Warning'.

Remedy

The warning message is generated due to failure of operations in other components. Please look for previous error or warning messages for resolution.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.SyncE.Notice

Description

SyncE processing on specified slot logged a message of severity 'Notice'.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.SyncE.Info

Description

SyncE processing on specified slot logged a message of severity 'Info'.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.SyncE.Debug

Description

SyncE processing on specified slot logged a message of severity 'Debug'.

Remedy

No action required - Informational message only.

Severity

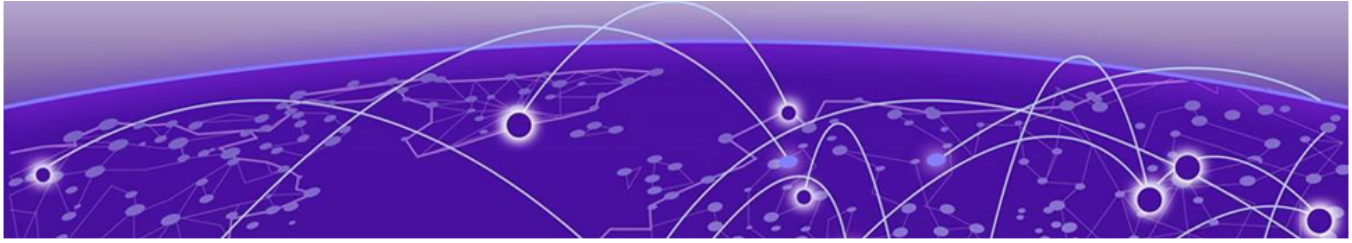
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.TunlAdj Messages

Kern.TunlAdj.Error on page 2871
Kern.TunlAdj.Warning on page 2872
Kern.TunlAdj.Notice on page 2872
Kern.TunlAdj.Info on page 2873
Kern.TunlAdj.Debug on page 2873

Kern.TunlAdj.Error

Description

Tunnel Adjacency processing on specified slot logged a message of severity 'Error'.

Remedy

If the error message indicates no memory on the system, remove some configuration on the system may solve the problem. Other error messages usually indicate software error, which should not happen in normal operation. Contact technical support with "show tech" output.

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.TunlAdj.Warning

Description

Tunnel Adjacency processing on specified slot logged a message of severity 'Warning'.

Remedy

The warning message is generated due to failure of operations in other components. Please look for previous error or warning messages for resolution.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.TunlAdj.Notice

Description

Tunnel Adjacency processing on specified slot logged a message of severity 'Notice'.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.TunlAdj.Info

Description

Tunnel Adjacency processing on specified slot logged a message of severity 'Info'.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.TunlAdj.Debug

Description

Tunnel Adjacency processing on specified slot logged a message of severity 'Debug'.

Remedy

No action required - Informational message only.

Severity

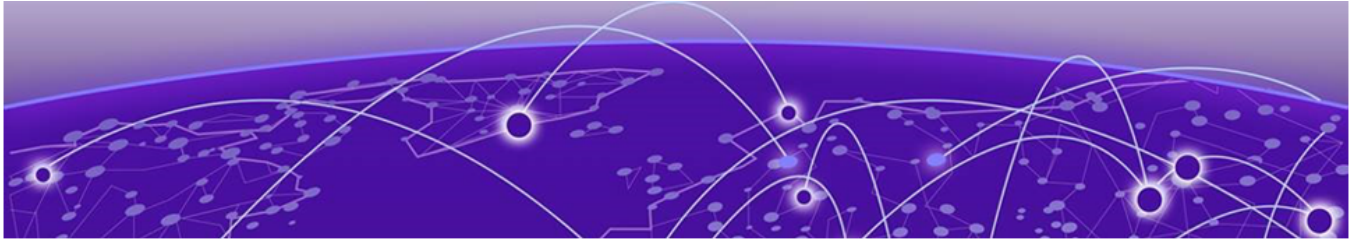
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



Kern.VXLAN Messages

Kern.VXLAN.Emergency on page 2875
Kern.VXLAN.Alert on page 2876
Kern.VXLAN.Critical on page 2876
Kern.VXLAN.Error on page 2877
Kern.VXLAN.Warning on page 2877
Kern.VXLAN.Notice on page 2878
Kern.VXLAN.Info on page 2878
Kern.VXLAN.Debug on page 2879

Kern.VXLAN.Emergency

Description

VXLAN processing on specified slot logged a message of severity 'Emergency'.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.VXLAN.Alert

Description

VXLAN processing on specified slot logged a message of severity 'Alert'.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.VXLAN.Critical

Description

VXLAN processing on specified slot logged a message of severity 'Critical'.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Critical

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.VXLAN.Error

Description

VXLAN processing on specified slot logged a message of severity 'Error'.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Error

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.VXLAN.Warning

Description

VXLAN processing on specified slot logged a message of severity 'Warning'.

Remedy

The warning message is generated due to failure of operations in other components. Please look for previous error or warning messages for resolution.

Severity

Warning

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.VXLAN.Notice

Description

VXLAN processing on specified slot logged a message of severity 'Notice'.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.VXLAN.Info

Description

VXLAN processing on specified slot logged a message of severity 'Info'.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf

Kern.VXLAN.Debug

Description

VXLAN processing on specified slot logged a message of severity 'Debug'.

Remedy

No action required - Informational message only.

Severity

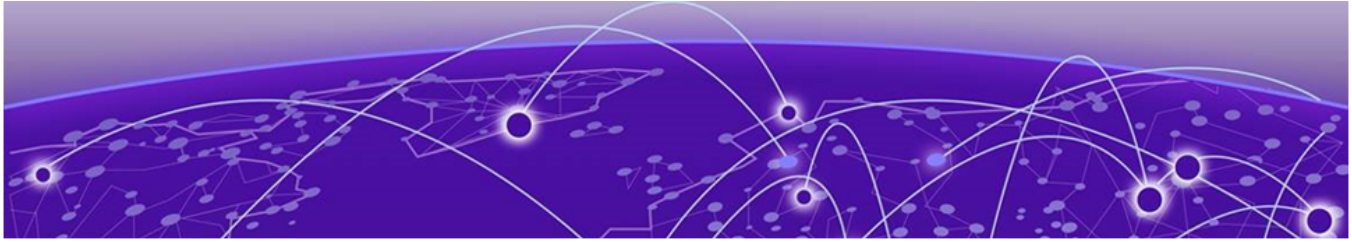
Debug-Summary

Message Text

```
%Parameter%
```

Message Parameters

Name	Type
slotNum	Slot
Parameter	Printf



LACP Messages

LACP.Error on page 2882
LACP.DebugSummary on page 2882
LACP.DebugVerbose on page 2883
LACP.DebugData on page 2883
LACP.DebugInit on page 2884
LACP.RxPkt on page 2884
LACP.TxPkt on page 2885
LACP.LACPPDUInvMaxSizExcd on page 2885
LACP.MrkrPDUInvMaxSizExcd on page 2886
LACP.CreatUnackTimerFail on page 2887
LACP.CreatVLANMsgFail on page 2887
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LACP.Error

Description

LACP error message. Could be related to a software defect in the code.

Remedy

No remedy is available.

Severity

Error

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

LACP.DebugSummary

Description

DebugSummary messages show only the important debug messages related to LACP

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

LACP.DebugVerbose

Description

DebugVerbose messages will show all debug related messages.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

LACP.DebugData

Description

DebugData will show contents of PDUs sent and received.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

LACP.DebugInit

Description

Debug messages when LACP is being initialized.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

LACP.RxPkt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Incoming packet from port `%slotport%` with a length of `%len%` bytes

Message Parameters

Name	Type
slotport	ingressSlotPort
ptr	Buf-ptr
len	Buf-len

LACP.TxPkt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Outgoing packet from port `%slotport%` with a length of `%len%` bytes

Message Parameters

Name	Type
slotport	egressSlotPort
ptr	Buf-ptr
len	Buf-len

LACP.LACPPDUInvMaxSizExcd

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

LACP PDU invalid because the size `%size%` bytes exceeds `%pdusize%` bytes on port `%slotport%`.

Message Parameters

Name	Type
size	uInt
pdusize	uInt
slotport	egressSlotPort

LACP.MrkrPDUInvMaxSizExcd

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Marker PDU invalid because the size `%size%` bytes exceeds `%pdusize%` bytes on port `%slotport%`.

Message Parameters

Name	Type
size	uInt
pdusize	uInt
slotport	egressSlotPort

LACP.CreatUnackTimerFail

Description

The value of unacknowledgement timerID returned a NULL while trying to create a LACP timer. The timer is needed to detect liveness.

Remedy

Check if aggregator is set. Also, check if the connection to the VLAN mgr is maintained. Otherwise, reboot switch. show switch show lacp

Severity

Critical

Message Text

Failed to create the unacknowledgement timer for LAG with group Id: `%grpId%`

Message Parameters

Name	Type
grpId	String

LACP.CreatVLANMsgFail

Description

The VLAN Message returned NULL. Could not allocate memory for object to set aggregator.

Remedy

Check is sufficient memory is available and memory is not occupied by other processes. show memory show memory process lacp

Severity

Critical

Message Text

Failed to create a message to be sent to VLAN manager from port`%port%` to set aggregator

Message Parameters

Name	Type
port	String

LACP.CreatVLANInfoFail

Description

The LACP VLAN information returned NULL. Attach to netTx filter failed. Could not allocate memory

Remedy

Check is sufficient memory is available and memory is not occupied by other processes. show memory show memory process lacp

Severity

Critical

Message Text

Failed to create VLAN-info `%vlan%`

Message Parameters

Name	Type
vlan	String

LACP.CreatFineGranTimerFail

Description

The LACP fine timer obj returned NULL. Could not allocate memory

Remedy

Check if LACP module was started without errors and all parameters are initialized. Otherwise, reboot switch. show memory show memory process lacp

Severity

Critical

Message Text

Failed to create LACP Fine Granularity timer

LACP.CreatPeriodTimerFail

Description

The periodic timer value returned NULL. Could not allocate memory

Remedy

Check timer parameters for LACP module. Check the memory statistics. Otherwise reboot switch. show memory process lacp show lacp member-port <port> {detail}

Severity

Critical

Message Text

Failed to create LACP periodic timer. port: `%portId%`

Message Parameters

Name	Type
portId	String

LACP.CreatCurWhileTimerFail

Description

The current-while timer value returned NULL. Could not allocate memory

Remedy

Check if the receiver machine parameters are initialized correctly for the LACP module. Check for the switch memory statistics. show memory show memory process lacp

Severity

Critical

Message Text

Failed to create create LACP current while timer. port: `%portId%`

Message Parameters

Name	Type
portId	String

LACP.GetLastPortFail

Description

The port returned a NULL value. Not able to retrieve it.

Remedy

Check the aggregator list of ports that have been added, make sure there is atleast one valid port that is currently enabled. show lacp show lacp member-port <port> {detail}

Severity

Critical

Message Text

Failed to get the last port from the aggregator list `%port%`

Message Parameters

Name	Type
port	String

LACP.CreatWaitWhileTimerFail

Description

The wait-while timer value returned NULL. Could not allocate memory

Remedy

Check for a valid LAG group ID. Check for any available memory. Otherwise reboot switch. show memory show memory process lacp show lacp member-port <port> {detail}

Severity

Critical

Message Text

Failed to create LACP wait-while timer. port: `%portId%`

Message Parameters

Name	Type
portId	String

LACP.CreatChurnTimerFail

Description

The churn timer value returned NULL. Could not allocate memory

Remedy

Check if the churn timer already exists. Check for any out-of-sync condition. Also, ceck for memory usage. show memory show memory process lacp show lacp member-port <port> {detail}

Severity

Critical

Message Text

Failed to create LACP churn timer. port: `%portId%` Type `%type%`

Message Parameters

Name	Type
portId	String
type	String

LACP.CreatLAGFail

Description

Malloc returned a null pointer while creating the LAG port

Remedy

Check for memory statistics. Otherwise reboot switch. show memory show memory process lacp

Severity

Critical

Message Text

Failed to create LACP LAG instance for port`%port%`.

Message Parameters

Name	Type
port	uInt32

LACP.AddPortFail

Description

The port returned a NULL value. Not able to malloc and add a LACP port.

Remedy

Check the validity of the port instance. Check memory statistics. Otherwise, reboot switch. show lacp show lacp memer-port <port> {detail}

Severity

Critical

Message Text

Failed to add port to the aggregator. Port: `%port%`

Message Parameters

Name	Type
port	String

LACP.CreatAggrPortFail

Description

The agg port returned a NULL value. Not able to malloc it.

Remedy

Check validity of the port and the LACP port aggregator list. Check memory statistics. Otherwise reboot switch. show memory show memory process lacp

Severity

Critical

Message Text

Failed to create aggregator port. `%data%`

Message Parameters

Name	Type
data	Ptr

LACP.CreatPDUFail

Description

The LACP PDU could not be allocated memory. The LACP frame returned NULL.

Remedy

Check memory statistics. Otherwise reboot switch. show memory show memory process lacp

Severity

Critical

Message Text

Failed to create LACP PDU. `%data%`

Message Parameters

Name	Type
data	Ptr

LACP.CreatCkptMsgFail

Description

The LACP check point data returned NULL. Could not allocate memory.

Remedy

Checkpoint message size to be kept within limits. Check memory statistics. Otherwise reboot switch. show lacp show lacp counter

Severity

Critical

Message Text

Failed to create LACP checkpoint msg of size: `%size%`

Message Parameters

Name	Type
size	uInt32

LACP.AttachExpktFiltFail

Description

Unable to attach the netTx filter as the filter Id returned a negative value.

Remedy

Check filter statistics before rebooting Switch show lacp show lacp member-port <port> {detail}

Severity

Error

Message Text

Failed to attach the Expkt filter for any vlan to socket `%sockId%`.

Message Parameters

Name	Type
sockId	uInt32

LACP.GetVLANNameFail

Description

Could not locate the instance using the VLAN name from the VLAN lib resulting in failure to add LACP FDB and ExPkt filter.

Remedy

Check validity of VLAN name that is queried show vlan <vlan_name>

Severity

Error

Message Text

Failed to locate VLAN `%vlan%`

Message Parameters

Name	Type
vlan	String

LACP.RxPDUFail

Description

Failed to receive the LACP PDU due to an unsuccessful socket read

Remedy

Check connection liveness between the sender and receiver stations show lacp counters

Severity

Error

Message Text

Failed to receive LACP PDU. socket ID: `%sockId%`

Message Parameters

Name	Type
sockId	uInt32

LACP.RxPDULenInv

Description

The PDU on verification was found that the size was smaller than it should be.

Remedy

The LACP packet must contain the necessary fields. Check the received PDU size. show lacp counters

Severity

Error

Message Text

Received PDU is of invalid length. Size `%size%` Required size `%reqSize%`

Message Parameters

Name	Type
size	uInt32
reqSize	uInt32

LACP.RxPDUSizExcd

Description

The received PDU on verification was found that the size exceeded than it should be.

Remedy

Only the necessary parameters must be included in the switch. Check the received length of PDU. show lacp counters

Severity

Error

Message Text

Received PDU `%name%` size exceeded. Incoming Port: `%portId%` PDU size: `%size%` required size: `%reqSize%`

Message Parameters

Name	Type
name	String
portId	String
size	uInt32
reqSize	uInt32

LACP.DestAddrInv

Description

Destination IP address on the PDU failed to match the LACP destination address. The length did not match.

Remedy

Check the destination address. Use a matching IP address.

Severity

Error

Message Text

Destination address `%destAddr%` invalid

Message Parameters

Name	Type
destAddr	String

LACP.PDULenNotMatchProto

Description

The length type does not match the slow protocol type thereby displaying an error message.

Remedy

Check the received PDU length type. show lacp show lacp counters

Severity

Error

Message Text

PDU length `%len%` does not match Slow-Protocols-Type

Message Parameters

Name	Type
len	uInt16

LACP.LAGInstcOutOfRange

Description

The instance is out of range as a result of exceeding the max possible number of LAG instances or if the instance returned a negative value.

Remedy

Check if the instance's range is valid. show lacp lag <group-id> {detail}

Severity

Error

Message Text

LAG instance `%lagInst%` out of range

Message Parameters

Name	Type
lagInst	uInt32

LACP.SendPDUFail

Description

The LACP port could not be sent. Socket error.

Remedy

Check socket connection. Check the port address. show lacp show lacp counter

Severity

Error

Message Text

Failed to send LACP Port `%port%` PDU

Message Parameters

Name	Type
port	String

LACP.LAGGrpIdInv

Description

Invalid LACP group ID.

Remedy

Check LAG group ID and validity of the LAG. show lacp lag <group-id> {detail} jerry lacp enable lag <group-id>

Severity

Error

Message Text

LACP Group ID `%grpId%` Invalid

Message Parameters

Name	Type
grpId	String

LACP.CreatNetTxSockFail

Description

Raw socket for LACP to interface with netTx could not be created.

Remedy

Check if the ports on the switch are up and enabled. show lacp counters

Severity

Error

Message Text

Failed to create socket `%sockId%`

Message Parameters

Name	Type
sockId	uInt32

LACP.IncrsSendBufSizFail

Description

Failed to increase buffer size to 1M

Remedy

Check if there is sufficient size in the switch to handle the increment. show switch show memory show memory process lacp

Severity

Warning

Message Text

Failed to increase the netTx transmit buffer socket: `%sockId%`

Message Parameters

Name	Type
sockId	uInt32

LACP.IncrsRxBufSizFail

Description

Failed to increase buffer size to 1M

Remedy

Check if there is sufficient size in the switch to handle the increment. show switch show memory show memory process lacp

Severity

Warning

Message Text

Failed to increase the netTx receive buffer socket: `%sockId%`

Message Parameters

Name	Type
sockId	uInt32

LACP.OpenNetTxConnFail

Description

Failed to initialize netTx - Packet interface.

Remedy

Check socket connections show lacp counters

Severity

Warning

Message Text

Failed to open connection to netTx services. Aborted.

LACP.InitTimerFail

Description

Failed to initialize the LACP timers.No timers allocated.

Remedy

Check for the timers to be properly initialized. Check if LACP module has been initialized and is up and running. show process lacp {detail} show lacp member-port <port> {detail}

Severity

Warning

Message Text

Failed to initialize timers. Aborted.

LACP.SysMACActorKeyCombInv

Description

The actor key is similar to the system MAC. The PDU is dropped.

Remedy

Check port configuration show lacp member-port <port> {detail}

Severity

Warning

Message Text

Invalid system MAC and actor key combination. LACP port `%port%`

Message Parameters

Name	Type
port	String

LACP.ModLAGId

Description

The LAG ID was modified while updating the LAG ID.

Remedy

Check the current LAG id and the previous LAG id before the update on the port. show lacp show lacp member-port <port> {detail} show lacp lag <group-id> {detail}

Severity

Warning

Message Text

LAG ID Modified for LACP port `%port%`. PDU MAC `%pdumac%`

Message Parameters

Name	Type
port	String
pdumac	String

LACP.NoFreeUnackEntAvail

Description

Unable to process any unack entries. All request entries are currently in use.

Remedy

Check the number of entries show lacp show lacp lag <group-id> {detail}

Severity

Warning

Message Text

No free unack entries `%unackMax%` available for LAG ID `%lagId%`. Unack entry current count `%count%`

Message Parameters

Name	Type
lagId	String
unackMax	uInt32
count	uInt32

LACP.LAGInstcNotExist

Description

LAG returned a NULL pointer while converting from corresponding LAG instance. The LAG timer expired eventually.

Remedy

Check LAG instance show lacp show lacp lag <group-id> {detail} jerry lacp enable lag <group-id>

Severity

Warning

Message Text

LAG instance does not exist.Context `%context%` Instance `%inst%` index `%index%`

Message Parameters

Name	Type
context	uInt32
inst	uInt32
index	uInt32

LACP.UnackTimerExp

Description

LAG unack timer expired

Remedy

Check if the switch and the port connections are healthy. show lacp lag <group-id> {detail}

Severity

Debug-Summary

Message Text

Unack timer expired for LAG `%lagId%` `%context%` Instance `%inst%` index `%index%`

Message Parameters

Name	Type
lagId	String
context	uInt32
inst	uInt32
index	uInt32

LACP.SetAggrErr

Description

Returned an Error code when VLAN client tried to set aggregator

Remedy

Check VLAN message to set aggregator. Check the LAG group Id to be valid. show lacp show lacp lag <group-id> {detail} jerry lacp enable lag <group-id>

Severity

Warning

Message Text

Error setting the aggregator for LAG `%lagId%` context: `%context%`

Message Parameters

Name	Type
lagId	String
context	uInt32

LACP.DtachExpktFiltFail

Description

Unable to detach filter because filter Id is not a valid one.

Remedy

Check if the VLAN instance and tag is valid. show vlan {detail} show lacp

Severity

Warning

Message Text

Failed to detach the Expkt filter for any vlan from socket `%sockId%`.

Message Parameters

Name	Type
sockId	uInt32

LACP.VLANIDAlrdyExist

Description

VLAN ID already exists. Can not add FDB entry

Remedy

Check VLAN instance if it already exists. Try with a new valid VLAN ID show vlan <vlan_name> create vlan <new_name> configure vlan <new_name> tag <tagId>

Severity

Warning

Message Text

VLAN ID already exists. Value:`%value%`

Message Parameters

Name	Type
value	uInt32

LACP.VLANIDNotExist

Description

VLAN ID doesn't exist.

Remedy

Check VLAN instance. Use an existing VLAN ID show vlan <vlan_name>

Severity

Warning

Message Text

VLAN ID doesn't exist. Value:`%value%`

Message Parameters

Name	Type
value	uInt32

LACP.InitPortFail

Description

Port receive state is not idle.

Remedy

Check port validity. Repeat process with a new and valid port instance. show port <portId> show lacp member-port <port> {detail}

Severity

Warning

Message Text

Failed to initialize port `%port%` state: `%state%`

Message Parameters

Name	Type
port	String
state	String

LACP.MuxStateInv

Description

Received invalid mux state

Remedy

Check port and state validity. show port <portId> show lacp member-port <port> {detail}

Severity

Warning

Message Text

Mux state invalid. State:`%state%` Port:`%port%`

Message Parameters

Name	Type
port	String
state	uInt32

LACP.WaitTimerAlrdyEnbl

Description

Mux state and port is valid. However, wait timer is already enabled

Remedy

Use a valid port and a MUX state and check if the wait timer on the port has already been enabled before proceeding to enable the timer on that port. show lacp member-port <port> {detail} jerry lacp enable member-port <port>

Severity

Warning

Message Text

Wait Timer Already Enabled for port `%port%` LACP mux state `%state%`

Message Parameters

Name	Type
port	String
state	String

LACP.WaitTimerExp

Description

Mux state and port are valid but wait timer value expired.

Remedy

Use a valid port with the appropriate MUX state. Try to restart the timer or initialize timer parameters. Check if the port on the switch is enabled. show port <port> show lacp member-port <port> {detail}

Severity

Warning

Message Text

Wait timer expired for port:`%port%` LACP mux state `%state%`

Message Parameters

Name	Type
port	String
state	String

LACP.AttachPort

Description

Attaching a LACP port whose state is FALSE.

Remedy

Check port state. Attach an LACP port when the state is TRUE. show port <port> show lacp show lacp member-port <port> {detail}

Severity

Warning

Message Text

Attaching port `%port%` with state `%state%`

Message Parameters

Name	Type
port	String
state	uInt32

LACP.PortLogicInvMuxState

Description

Warning message to specify the logic state of the port

Remedy

Check port state logic. show lacp member-port <port> {detail}

Severity

Warning

Message Text

Port `%port%` logic `%logic%` invalid with mux state `%state%`

Message Parameters

Name	Type
port	String
logic	String
state	String

LACP.ChurnTimerStateInv

Description

Switch out of sync and churn state is already true. Churn Timer should not have been existing.

Remedy

Check to see if the port being used is valid. Check the port state and the corresponding timer associated with it. show lacp show process lacp show lacp member-port <port> {detail}

Severity

Warning

Message Text

Invalid Churn detection timer state. State TRUE Port `%port%` type `%type%`

Message Parameters

Name	Type
port	String
type	String

LACP.ChurnTimerExp

Description

Churn detection timer expired, but churn state is true

Remedy

Check port state and the type to be valid with the corresponding timer parameters enabled. Check port statistics. show port <port> show lacp member-port <port> {detail}

Severity

Warning

Message Text

Churn detection Timer expired. Port `%port%` type `%type%`

Message Parameters

Name	Type
port	String
type	String

LACP.ChurnEventUnk

Description

Unknown event in churn detection

Remedy

Check port state show port <port> show lacp member-port <port> {detail}

Severity

Warning

Message Text

Unknown event in Churn detection Port: `%port%` Event: `%type%`

Message Parameters

Name	Type
port	String
type	uInt32

LACP.LifNotExist

Description

Logical port instance, Lif not found.

Remedy

Check for the validity of the port instance queried. Use a valid port. show port <port> show lacp member-port <port> {detail} jerry enable lacp member-prot <port>

Severity

Warning

Message Text

Logical port instance (lif) does not exist. Lif instance: `%lif%`

Message Parameters

Name	Type
lif	uInt32

LACP.PifNotExist

Description

Port, Pif not found.

Remedy

Check for the validity of the port instance. Use a valid port otherwise. show port <port> show lacp member-port <port> {detail} jerry enable lacp member-prot <port>

Severity

Warning

Message Text

Port instance (pif) does not exist. Pif instance: `%pif%`

Message Parameters

Name	Type
pif	uInt32

LACP.LAGNotFndForLif

Description

LAG port not found for link, lif

Remedy

Check the port instance and check if the corresponding LAG exists. Use a valid instance to search for the corresponding LAG. show lacp show lacp member-port <port> {detail} show lacp lag <group-id> {detail} jerry lacp enable lag <group-id>

Severity

Warning

Message Text

LAG does not exist. Logical port, Lif instance: `%lif%`

Message Parameters

Name	Type
lif	String

LACP.AddPortDupGrpId

Description

Trying to add a port with duplicate LAG group ID

Remedy

Check group ID. Use a valid unique group ID. show lacp show lacp lag <group-id> {detail} jerry lacp enable lag <new_id>

Severity

Warning

Message Text

Add port with duplicate LAG group ID `%grpID%`

Message Parameters

Name	Type
grpID	String

LACP.RemLAGEntFail

Description

LAG entry returned a NULL value. The entry corresponding to the group ID does not exist, hence could not be removed.

Remedy

Check if the LAG entry exists for the corresponding groupID. Check if the group ID is correct. show lacp show lacp lag <group-id> {detail} jerry lacp disable <group-id>

Severity

Warning

Message Text

Failed to remove LAG entry as it does not exist. GroupID: `%grpID%`

Message Parameters

Name	Type
grpID	String

LACP.NoFreeLAGInstcAvail

Description

Could not get any free LAG instance. Unable to create a new LAG instance.

Remedy

Can not create a LAG instance until the one or more of the previous LAG entries are removed. show lacp show lacp counters show lacp lag <group-id> {detail}

Severity

Warning

Message Text

No free LAG instances available. `%max_num%`

Message Parameters

Name	Type
max_num	uInt32

LACP.AddPortDupPortNum

Description

Tried to add port to the aggregator that has already been added. Did not add port.

Remedy

Check the port number, if it already exists use a unique port number. show lacp show lacp member-port <port> {detail}

Severity

Warning

Message Text

Tried adding a port with duplicate port number `%port%`. Add was skipped.

Message Parameters

Name	Type
port	String

LACP.PortNotExistInLAG

Description

LACP port entry with the given port number does not exist in the LAG (returned NULL value).

Remedy

Check if the port is valid. Also check for the LAG group ID validity. show port <port-id> show lacp member-port <port> {detail} show lacp lag <group-id> {detail}

Severity

Warning

Message Text

Port does not exist. Port number `%port%` LAG group ID`%grpId%`

Message Parameters

Name	Type
port	String
grpId	String

LACP.CurWhileTimerExp

Description

Current while timer fired prematurely

Remedy

Check if the timer has has been set properly while creation of the port. The time stamp is erroneous. Reset the timers. show lacp show lacp counters show lacp member-port <port> {detail}

Severity

Notice

Message Text

The current while timer expired prematurely for port `%port%` Expired after `%sec%` seconds `%usec%` microseconds. Timeout: `%timer%` seconds

Message Parameters

Name	Type
port	String
sec	uInt32
usec	uInt32
timer	uInt32

LACP.RxPDUUnkType

Description

An unknown LACP PDU sub type has been received while calling the checkpointing routine. Possible PDU data corruption

Remedy

Check the message ID parameter, if valid. Also, look in to the check point BPDU. show lacp counters show lacp member-port <port> {detail}

Severity

Warning

Message Text

Received unknown PDU subtype: `%type%`. Port: `%port%`

Message Parameters

Name	Type
type	uInt32
port	String

LACP.RecvUnkCkptMsg

Description

Unknown Checkpoint message received.

Remedy

Check the message ID parameter.Use a valid ID. show lacp counters

Severity

Warning

Message Text

Received unknown checkpoint message with message ID `%msgId%`

Message Parameters

Name	Type
msgId	uInt32

LACP.SendTrapFailLAGNotExist

Description

Trap could not be sent as the LAG did not exist for the LACP port. LAG returned a NULL value.

Remedy

Check if the port is part of the aggregator. Check the LAG parameter for the LACP port, if exists. show lacp show lacp member-port <port> {detail} show lacp lag <group-id> {detail}

Severity

Warning

Message Text

Sending SNMP trap failed as LAG does not exist for port `%port%`

Message Parameters

Name	Type
port	String

LACP.RecvLcnsUpdt

Description

Received an update to the existing license.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Receive license update message:: `%license%`

Message Parameters

Name	Type
license	String

LACP.SkipAckUsage

Description

The Unack count has reached a maximum. Hence skipping the usage of ack.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Skipping the usage of ack. Unack count `%count%`

Message Parameters

Name	Type
count	uInt32

LACP.AddPortToAggr

Description

An LACP port is added to an aggregator

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Add port `%port%` to aggregator

Message Parameters

Name	Type
port	String

LACP.RemPortFromAggr

Description

An LACP port is removed from an aggregator

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Remove port `%port%` from aggregator

Message Parameters

Name	Type
port	String

LACP.BindExpktFiltFail

Description

Unable to bind netTx filter as bind function returned negative value.

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to bind the Expkt filter `%filterId%` for port `%slotPort%`.

Message Parameters

Name	Type
filterId	uInt32
slotPort	String

LACP.UnBindExpktFiltFail

Description

Unable to unbind netTx filter as unbind function returned negative value.

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to unbind the Expkt filter `%filterId%` for port `%slotPort%`.

Message Parameters

Name	Type
filterId	uInt32
slotPort	String

LACP.MinActvLinkAchv

Description

The minimum number of links in Selected state required for LAG to come up has been reached.

Remedy

No action required - Informational message only

Severity

Notice

Message Text

LAG `%port%` with `%totalMembers%` member ports has reached the minimum of `%threshold%` links in Selected state.

Message Parameters

Name	Type
port	String
threshold	uInt8
totalMembers	uInt8

LACP.MinActvLinkNotMntn

Description

The number of links in Selected state has fallen below the minimum required for the LAG to remain up.

Remedy

Check to make sure links are active via show port sharing command. Verify that all links are properly configured with LACP and communicating correctly using show lacp commands.

Severity

Warning

Message Text

The number of links in Selected state for LAG `%port%` with `%totalMembers%` member ports has fallen below the minimum `%threshold%` links in Selected state required for the LAG to remain up.

Message Parameters

Name	Type
port	String
threshold	uInt8
totalMembers	uInt8

LACP.CreateEZFabricTimerFail

Description

The LACP timer object returned NULL during EZ Fabric delay timer creation. Could not allocate memory.

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to create EZ Fabric delay timer for LAG for port `%port%`.

Message Parameters

Name	Type
port	uInt32

LACP.CreatFallbkTimerFail

Description

The LACP timer object returned NULL during fallback timer creation. Could not allocate memory. action: - configure sharing <port> lacp fallback enable

Remedy

Check the memory statistics and check for valid LAG Group Id. Otherwise reboot the switch. action: - show memory - show memory process lacp - show lacp lag <group-id> detail

Severity

Error

Message Text

Failed to create fallback timer for LAG with Group Id `%grpId%`.

Message Parameters

Name	Type
grpId	String

LACP.SlctFallbkPortDone

Description

When LACP fallback is enabled and fallback timeout expires, one of the active LACP members will be selected as fallback port and added to the aggregator. action: - configure sharing <port> lacp fallback enable

Remedy

No action required - Informational message only.

Severity

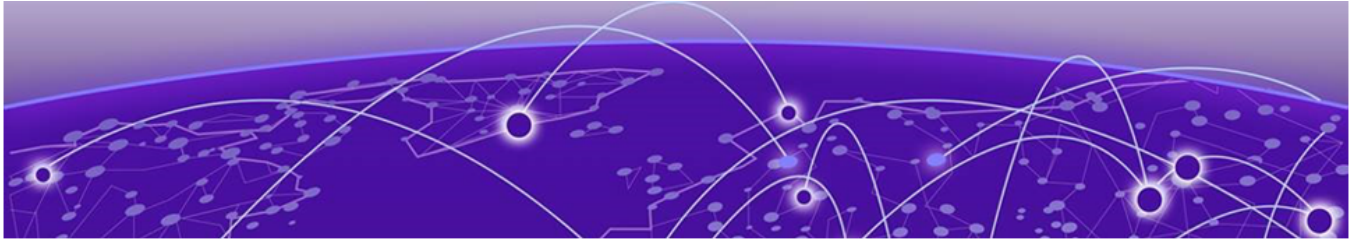
Info

Message Text

Port `%slotPort%` has been selected as fallback port.

Message Parameters

Name	Type
slotPort	SlotPort



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LAGHC.DebugSummary

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

LAGHC.DebugVerbose

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

LAGHC.DebugData

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

LAGHC.TCPTrckNtfyRecv

Description

Received a TCP Tracking notification from Nettools.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

TCP track notification received. MemberPort:`%port%` TrackId:`%trackId% %IP%:%tcpPort% %status%`

Message Parameters

Name	Type
trackId	uInt32
port	SlotPort
IP	IP
tcpPort	uInt32
status	String

LAGHC.MbrPortRem

Description

A member port was removed from the LAG. This occurs when member port is disabled, or if TCP Tracking fails for a member port.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Port `%port%` was removed from Aggregator Group `%groupId%`

Message Parameters

Name	Type
port	SlotPort
groupId	String

LAGHC.MbrPortAdd

Description

A member port was added back to the LAG. This occurs when tracking is disabled or deleted from a member port, or when tracking is successful.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Port `%port%` has been added to Aggregator Group `%groupId%`

Message Parameters

Name	Type
port	SlotPort
groupId	String

LAGHC.MbrPortCreate

Description

A new member port has been created and added to a LAG.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Created a member port. Port `%port%` LAG group `%groupId%`

Message Parameters

Name	Type
port	SlotPort
groupId	String

LAGHC.MbrPortDelete

Description

A member port has been completely removed from the LAG.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Port `%port%` has been deleted from LAG Group `%groupId%`

Message Parameters

Name	Type
port	SlotPort
groupId	String

LAGHC.ACLApply

Description

We applied an ACL rule to a port. ACL Rules are created at config time and applied to a port when the port is removed from the Aggregator when TCP tracking condition fails. This allows the switch to divert packets to the CPU even though the port is not an active LAG member. Normally, ports removed from the LAG drop all ingress packets.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

ACL `%ruleName%` applied to port `%port%`

Message Parameters

Name	Type
port	SlotPort
ruleName	String

LAGHC.ACLDeApply

Description

We unapplied an ACL rule to a port. A port is added back to the LAG when the Tracking condition is restored or if Tracking is manually disabled. In this case, the ACL is no longer needed to divert packets to the CPU since the port is an active member of the LAG.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

ACL `%ruleName%` unapplied from port `%port%`

Message Parameters

Name	Type
port	SlotPort
ruleName	String

LAGHC.ACLCreated

Description

Application automatically created an ACL rule at config time.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

ACL `%ruleName%` created

Message Parameters

Name	Type
ruleName	String

LAGHC.ACLDeleted

Description

Application deleted an ACL when tracking is unconfigured for the member port.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

ACL `%ruleName%` deleted

Message Parameters

Name	Type
ruleName	String

LAGHC.ConfigTrace

Description

Used when tracing messages as they are received from the Configuration Manager

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

LAGHC.DuplicateGroupId

Description

Trying to add a node with an existing group-id already in use.

Remedy

Check the given group ID. Try adding the node with unique group-id which is not already used.

Severity

Error

Message Text

Trying to add port with duplicate group-id `%grpid%`

Message Parameters

Name	Type
grpid	String

LAGHC.GroupIdDoesNotExist

Description

Could not find a particular group-id that was being searched for.

Remedy

Check for the given group ID. Check if the group ID exists. Try using a group-id that exists.

Severity

Error

Message Text

Group-id `%grpid%` does not exist

Message Parameters

Name	Type
grpid	String

LAGHC.PortDoesNotExist

Description

Could not find a particular port that was being searched for.

Remedy

Verify port exists and is being used.

Severity

Error

Message Text

Port `%port%` does not exist

Message Parameters

Name	Type
port	SlotPort

LAGHC.MaxLagInstancesReached

Description

The limit to the maximum number of LAGs to be configured is exceeded. The message is shown while trying to get the next free instance.

Remedy

Can not add new LAG instances unless the existing instances are removed.

Severity

Error

Message Text

Maximum LAG instances reached. Only `%max%` instances allowed.

Message Parameters

Name	Type
max	uInt

LAGHC.LagInstanceOutOfRange

Description

The LAG instance specified is not within the valid range of instances.

Remedy

Check for the LAG instance value. Specify a LAG instance between 0 and MAX.

Severity

Error

Message Text

LAG instance `%inst%` specified is out of range. Valid range is between 0 and `%max%`

Message Parameters

Name	Type
inst	uInt
max	uInt

LAGHC.OutOfMemory

Description

Unsuccessful attempt to allocate memory.

Remedy

Make sure the switch has sufficient memory to handle this event. If it does, then the fault lies with allocating memory for a particular parameter. Reboot switch to see if the problem is solved.

Severity

Critical

Message Text

Out of Memory. `%size%` bytes.

Message Parameters

Name	Type
size	uInt

LAGHC.TCPTrckNtfyIgn

Description

Ignored an incoming TCP tracking notification from Nettools regarding a change of state.Node state disabled or node does not exist

Remedy

Check if the node exists. If it exists and this message is logged, check if the node is in disabled state.

Severity

Info

Message Text

TCP track notification ignored. MemberPort:`%port%` TrackId:`%trackId% %action% %state%`

Message Parameters

Name	Type
port	SlotPort
trackId	uInt32
action	String
state	String

LAGHC.TmrCreateFailed

Description

Unable to create a system timer. The timer ID returned a NULL value.

Remedy

Check is timer has not expired and then check if the timer ID is valid, else reboot switch.

Severity

Critical

Message Text

Unable to create unack timer. LAG group ID:`%grpID%`

Message Parameters

Name	Type
grpID	String

LAGHC.PortNotFound

Description

Unable to find the port or PIF object corresponding to a particular port instance

Remedy

Check if the port exists and is being used i.e active and enabled.

Severity

Error

Message Text

Port not found for port instance `%portInst%`

Message Parameters

Name	Type
portInst	uInt32

LAGHC.TCPTrkAddErr

Description

Can not add a tracking entry on a port on which TCP tracking is already enabled. API call to Nettools to add a tracking entry has failed.

Remedy

Check TCP tracking state on port. If tracking state is already enabled, do not attempt to re-enable it.

Severity

Error

Message Text

Adding TCP tracking functionality for port `%port%` failed because the tracking state is already enabled.

Message Parameters

Name	Type
port	SlotPort

LAGHC.ChkPtTlvSendErr

Description

Failed to send checkpoint message to backup MSM

Remedy

Make sure the backup MSM is up and running. Reboot the backup MSM if not.

Severity

Error

Message Text

Failed to send checkpoint message type `%type%` size `%size%`

Message Parameters

Name	Type
type	uInt32
size	uInt32

LAGHC.ChkPtTlvDecodeErr

Description

Failed to decode received checkpoint message

Remedy

Check TLV parameters for possible data corruption. Check if the message received from the MSM is appropriate.

Severity

Error

Message Text

Failed to decode checkpoint message for `%msg%` object

Message Parameters

Name	Type
msg	String

LAGHC.ChkPtUnkEv

Description

Received a checkpoint event for an unknown type. Simply ignore.

Remedy

Check if the same versions are being used on both MSM

Severity

Warning

Message Text

Unknown checkpoint event `%msgId%` received. Ignoring.

Message Parameters

Name	Type
msgId	uInt32

LAGHC.ChkPtUnsupType

Description

Received a checkpoint msg for an object where a particular field of that object is unsupported. Simply ignore.

Remedy

Check for versions running on the MSM. Make sure the versions are the same.

Severity

Warning

Message Text

Unknown checkpointed type `%type%` for object `%obj%`. Ignoring.

Message Parameters

Name	Type
obj	String
type	uInt32

LAGHC.ChkPtTlvSizeMismatch

Description

The object TLV length did not match the object length.

Remedy

Check for the MSM versions. Make sure they are identical. Check the parameters which make up the message that is being sent.

Severity

Warning

Message Text

This `%obj%` object type `%type%` TLV size `%tlvLen%` does not match object length `%objLen%`

Message Parameters

Name	Type
obj	String
type	uInt32
tlvLen	uInt32
objLen	uInt32

LAGHC.InsPortFail

Description

The port could not be inserted as a HCLAG port as the port number already exists.

Remedy

Check port number. If it is valid, check if it is unique. Use a unique port number that is not being currently used.

Severity

Warning

Message Text

Failed to insert port `%port%`.

Message Parameters

Name	Type
port	String

LAGHC.AddTrackIdFail

Description

API call to Nettools to add a tracking ID has failed. Track ID returned a negative value.

Remedy

Check parameters and re-add tracking ID, otherwise reboot switch.

Severity

Warning

Message Text

Failed to add Tracking ID `%trackId%` Not a valid parameter.

Message Parameters

Name	Type
trackId	uInt32

LAGHC.RemTCPTrackFail

Description

Could not remove the TCP tracking ID. The health check library in the Nettools directory returned a negative value.

Remedy

Check TCP track ID to be valid and being used. Otherwise reboot switch

Severity

Warning

Message Text

Failed to remove TCP tracking ID `%trackId%` for IPAddr:`%IPaddr%` tcpPort:`%port%`

Message Parameters

Name	Type
trackId	uInt32
IPaddr	IPaddrFamily
port	uInt32

LAGHC.DsblTCPTrackFail

Description

The node state had tracking state already disabled.

Remedy

Check the node state if it is previously disabled. If yes, then do not attempt to disable tracking on a node that has already tracking functionality disabled.

Severity

Warning

Message Text

Disabling the TCP tracking `%trackId%` for port `%portId%` IPaddress `%IPaddr%` failed as it was already disabled.

Message Parameters

Name	Type
trackId	uInt32
portId	uInt32
IPaddr	IPaddrFamily

LAGHC.DsblTCPTrackMsgFail

Description

The tracking of the TCP port could not be disabled. The API call to nettools was sent a message to disable.

Remedy

Check TCP track ID and socket connections to be valid. If not, reboot the concerned switches.

Severity

Warning

Message Text

Message sent to disable TCP tracking on a port failed. Tracking ID: `%trackID%`

Message Parameters

Name	Type
trackID	uInt32

LAGHC.EnblTCPTrackFail

Description

The node state was already enabled

Remedy

Check node state and tracking ID. Do not attempt to enable tracking on a switch that has already been enabled with the tracking functionality.

Severity

Info

Message Text

Enabling TCP tracking `%trackId%` failed. IP `%IPAddr%` Port: `%PortId%`

Message Parameters

Name	Type
trackId	uInt32
IPAddr	IPaddrFamily
PortId	uInt32

LAGHC.UnackTimerExp

Description

The LAG Unack timer expired. The timer entry could not be freed

Remedy

Check LAG. Check if all the nodes are up and running.

Severity

Warning

Message Text

Unack Timer Expired. GroupId `%msg%` context:`%ctxt%` instance: `%inst%` index:`%index%`

Message Parameters

Name	Type
msg	String
ctxt	uInt32
inst	uInt32
index	uInt32

LAGHC.LAGNotExist

Description

No LAG existed for the link instance(lif). Unable to add/del ports to aggregator.

Remedy

Check for the concerned link ID. If valid, then reboot switch. Else, use a valid link instance ID

Severity

Warning

Message Text

No LAG exists for Lif `%lifId%`.

Message Parameters

Name	Type
lifId	String

LAGHC.NoFreeUnackEntAvail

Description

Unable to retrieve any more free unack timer entries. Reached limit.

Remedy

Wait till one or more unack timer entry expires or when the timer entries are removed.

Severity

Warning

Message Text

No free unack timer entries available for group `%grpId%` [count `%count%`]Maximum Limit:`%maxLimit%`

Message Parameters

Name	Type
grpId	String
count	uInt32
maxLimit	uInt32

LAGHC.SetAggrFail

Description

Message was not delivered to the aggregator preventing add/delete functions

Remedy

Check for valid LAG instance group ID and membership. If it is valid, try to see if the message is logged once the switch is rebooted.

Severity

Warning

Message Text

Setting the aggregator failed. Group `%grpId%` not sent, returned with `%code%`, to aggregator instead of `%needed%`.

Message Parameters

Name	Type
grpId	String
code	uInt32
needed	uInt32

LAGHC.AddPortFail

Description

Port was not added to the aggregator as no port instance was part of LAG

Remedy

Check for the correct port instance group ID. Else use a group Id that is valid.

Severity

Warning

Message Text

Adding a port failed. portInst:`%portInst%` slot:`%portIdslot%` port:`%portId%` association with group:`%grpId%`

Message Parameters

Name	Type
portInst	uInt32
portIdslot	uInt32
portId	uInt32
grpId	String

LAGHC.LifNotExist

Description

Unable to locate the link instance corresponding to a port from VLAN library

Remedy

Check port instance. If it is valid, check the group Id. Else, contact the concerned personnel with the exact set of sequences that led to the logging of this message.

Severity

Warning

Message Text

Logical port instance, Lif does not exist `%lifId%`

Message Parameters

Name	Type
lifId	uInt32

LAGHC.PifNotExist

Description

Unable to locate the port instance from VLAN library

Remedy

Check if the port is up and enabled. If valid, use valid pif instance while changing state of the pif. Check the state of the port instance.

Severity

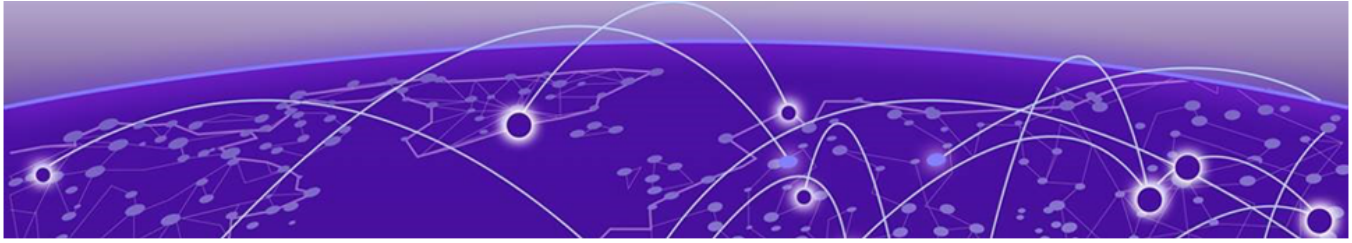
Warning

Message Text

Port instance `%port%` does not exist.

Message Parameters

Name	Type
port	uInt32



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licMgr.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

licMgr.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

licMgr.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

licMgr.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

licMgr.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

licMgr.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

licMgr.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

licMgr.FeatEvalTimeRmn

Description

This event is a notification of the number of days remaining before an evaluation license expires.

Remedy

Install a perpetual license.

Severity

Warning

Message Text

License product `%product%` for the `%generic%` feature will expire in `%days%` day(s).

Message Parameters

Name	Type
product	String
generic	String
days	uInt

licMgr.FeatEvalTimeExp

Description

This event occurs when an evaluation license expires.

Remedy

Install a perpetual license.

Severity

Critical

Message Text

License product `%product%` for the `%generic%` feature has expired.

Message Parameters

Name	Type
product	String
generic	String

licMgr.RMSAPIFail

Description

A Sentinel RMS API call has resulted in an error.

Remedy

The remedy is dependent on the particular error.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

licMgr.AllocMemFail

Description

Memory allocation required for License Manager operation has failed. The License Manager may have unexpected behavior.

Remedy

Note the information provided in the log message. The information from "show tech" and "show memory" will be helpful in determining why this failure has occurred. If the box has run out of memory due to features enabled by the user, turn off some features to free additional memory.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

licMgr.InstlFeatLcns

Description

A license key has been installed to the device's persistent data. This does not imply that the licensed product has also been enabled.

Remedy

No remedy is available.

Severity

Notice

Message Text

Installed the `%product%` license product for the `%generic%` feature(s).

Message Parameters

Name	Type
product	String
generic	String

licMgr.UninstlFeatLcns

Description

A license key has been removed from the device's persistent data.

Remedy

No remedy is available.

Severity

Notice

Message Text

Uninstalled the `%product%` license product for the `%generic%` feature(s).

Message Parameters

Name	Type
product	String
generic	String

licMgr.EnblFeatLcns

Description

A license product has been enabled on the device.

Remedy

No remedy is available.

Severity

Notice

Message Text

Enabled the `%product%` license product for the `%generic%` feature(s).

Message Parameters

Name	Type
product	String
generic	String

licMgr.DsblFeatLcns

Description

A license product has been disabled on the device.

Remedy

No remedy is available.

Severity

Warning

Message Text

Disabled the `%product%` license product for the `%generic%` feature(s).

Message Parameters

Name	Type
product	String
generic	String

licMgr.RvkFeatLcns

Description

A license key has been revoked from the device. The same license key cannot be installed on the device again.

Remedy

A new license entitlement has to be created for this device.

Severity

Notice

Message Text

License for product `%product%` with EID `%eid%` has been revoked.

Message Parameters

Name	Type
product	String
eid	String

licMgr.UninstlLcnsClnupFail

Description

This event occurs when a license uninstallation fails and we failed to re-enable the license.

Remedy

A reboot might re-enable the license.

Severity

Error

Message Text

Falied to cleanup after license uninstallation failure for product `%product%`.

Message Parameters

Name	Type
product	String

licMgr.InstlLcnsClnupFail

Description

This event occurs when a license installation command fails. Specifically, an invalid license key has been installed to peristent memory and we failed to remove it.

Remedy

The command "debug licmgr uninstall" could be used to remove the license key.

Severity

Error

Message Text

Falied to cleanup after license installation failure for product `%product%`.

Message Parameters

Name	Type
product	String

licMgr.ClrCPD

Description

The Sentinel RMS Custom Persistent Data has been removed from the disk. This means that all licenses installed prior to this have been removed. It further means that revocation records have also been removed. Due to this, previously revoked licenses can be installed again. This event will be followed by a reboot in order for the system to function properly.

Remedy

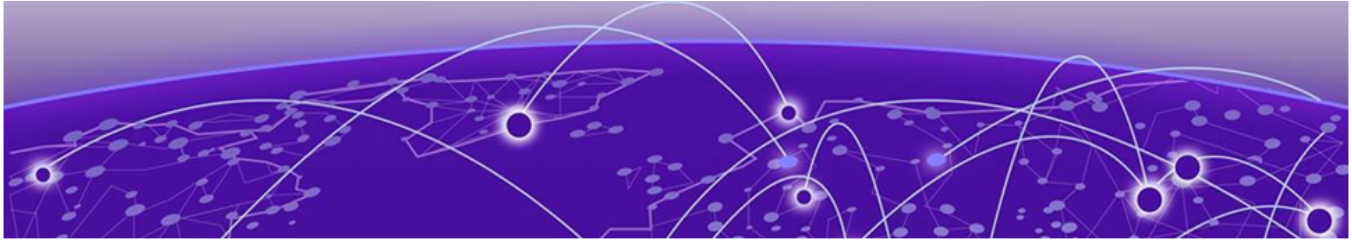
No action required - Informational message only.

Severity

Critical

Message Text

The RMS Custom Persistent Data has been cleared.



lldp Messages

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lldp.AddFdbFilter

Description

This message will indicate that a FDB hardware filter is added for the specified vlan and vlan-tag.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Adding a VLAN filter for vlan `%vlan%`, tag `%tag%` returned `%rc%`.

Message Parameters

Name	Type
vlan	VLAN
tag	VLAN-tag
rc	uInt

lldp.DelFdbFilter

Description

This message will indicate that a FDB hardware filter is deleted for the specified vlan and vlan-tag.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Suppor

Severity

Debug-Verbose

Message Text

Deleting a VLAN filter for vlan `%vlan%`, tag `%tag%` returned `%rc%`.

Message Parameters

Name	Type
vlan	VLAN
tag	VLAN-tag
rc	sInt

lldp.FailedPktSocket

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Failed to allocate global LLDP packet socket, error: `%errormsg%`.

Message Parameters

Name	Type
errormsg	String

lldp.PktRecvError

Description

This message will return the error message received by the recvExpkt() function.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

The recvExpkt() function returned error; `%error%`

Message Parameters

Name	Type
error	String

lldp.PktRecv

Description

This message is logged every time a LLDP packet is received on a port.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Received a `%size%` bytes LLDP packet on port `%port%`, vlan-tag `%tag%`.

Message Parameters

Name	Type
port	ingressSlotPort
tag	VLAN-tag
size	uInt32

lldp.PktRecvData

Description

This message is logged every time a LLDP packet is received on a port.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Received a `%size%` bytes LLDP packet on port `%port%`, vlan-tag `%tag%`.

Message Parameters

Name	Type
port	ingressSlotPort
tag	VLAN-tag
buffer	Buf-ptr
size	Buf-len

lldp.LocalTLVChange

Description

This message gets logged if data for an Enabled TLV changes. Port 65535:65535 means it's a global data change.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Local TLV change for port %port%; %TLV%

Message Parameters

Name	Type
port	SlotPort
TLV	String

lldp.AddTLVFailed

Description

Failed to add a TLV when constructing an outgoing TLV. This could happen when there is not enough room to fit all requested TLVs. Errors greater than 0 mean not enough space, all others are smaller than 0.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Adding TLV to transmit LLDPDU failed[%error%] on port %port% for %TLV%

Message Parameters

Name	Type
port	SlotPort
TLV	String
error	uInt

lldp.LLDPDUExceeded

Description

When constructing a LLDPDU a maximum of 1500 bytes of data can be included. If the switch tried to construct a LLDPDU which would end up being larger that 1500 bytes this message will be logged.

Remedy

Disable all TLV which are not mandatory in your environment, see user manual for details.

Severity

Warning

Message Text

Constructed LLDPDU for port `%port%` does not contain all requested information.

Message Parameters

Name	Type
port	SlotPort

lldp.AddedTLV

Description

Added specific TLV for port

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Added TLV \"`%TLV%`\" to LLDPDU for port `%port%`

Message Parameters

Name	Type
port	SlotPort
TLV	String

lldp.PktTransmit

Description

This message is logged every time a LLDP packet is transmitted on a port.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Transmitted a `%size%` bytes LLDP packet on port `%port%`

Message Parameters

Name	Type
port	ingressSlotPort
size	uInt32

lldp.PktTransmitData

Description

This message is logged every time a LLDP packet is transmitted on a port.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Transmitted a `%size%` bytes LLDP packet on port `%port%`

Message Parameters

Name	Type
port	ingressSlotPort
buffer	Buf-ptr
size	Buf-len

lldp.PktTransmitFail

Description

This message is logged every time a LLDP packet could not be transmitted out of a port.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Failed transmitting a `%size%` bytes LLDP packet out of port `%port%`, errno `%error%`

Message Parameters

Name	Type
port	ingressSlotPort
size	uInt32
error	sInt32

lldp.TxStateChange

Description

This message logs the state changes for the LLDP Transmit state machine.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Receive state change for port `%port%`; `%oldState%` -> `%newState%`

Message Parameters

Name	Type
port	ingressSlotPort
oldState	String
newState	String

lldp.TxSMEvent

Description

This message logs the events received by the LLDP Transmit state machine.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Received event \"`%event%`\" for port `%port%` in state \"`%state%`\"

Message Parameters

Name	Type
port	ingressSlotPort
event	String
state	String

lldp.RxStateChange

Description

This message logs the state changes for the LLDP Receive state machine.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Receive state change for port `%port%`; `%oldState%` -> `%newState%`

Message Parameters

Name	Type
port	ingressSlotPort
oldState	String
newState	String

lldp.RxSMEvent

Description

This message logs the events received by the LLDP Receive state machine.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Summary

Message Text

Received event \"%event%\" for port %port% in state \"%state%\"

Message Parameters

Name	Type
port	ingressSlotPort
event	String
state	String

lldp.TxStateVar

Description

This message logs the state variabled for the LLDP Transmit state machine.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Port %port% Tx State variables: txTimer %timer%, portEnabled %pe%, chgLocal %scl%, TTR %txTTR%, delay %txDelay%, async %async%

Message Parameters

Name	Type
port	ingressSlotPort
timer	xInt32
pe	uInt8
scl	uInt8
txTTR	uInt16

Name	Type
txDelay	uInt16
async	sInt

lldp.RxStateVar

Description

This message logs the state variabled for the LLDP Receive state machine.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Port `%port%` Rx State variables: rxTimer `%timer%`, portEnabled `%pe%`, rxInfoAge `%infoAge%`, rcvFrame `%frame%`

Message Parameters

Name	Type
port	ingressSlotPort
timer	xInt32
pe	uInt8
infoAge	uInt8
frame	uInt16

lldp.RxPktInvalid

Description

When a LLDPDU was received and could not be validated this message gets logged.

Remedy

By either taking a trace or enabling the PktRecvData event (for the specific port) try to determine which device is sending the invalid packet.

Severity

Info

Message Text

LLDPDU received on port `%port%` was not valid

Message Parameters

Name	Type
port	ingressSlotPort

lldp.RxInvTLV

Description

This message is logged when an invalid TLV is received.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support. Note that the offset is only correct for the first invalid TLV in the frame.

Severity

Debug-Data

Message Text

Received an invalid TLV(`%tlvType%`, `%tlvLength%`) on port `%port%`, offset `%offset%`, length `%len%`

Message Parameters

Name	Type
port	ingressSlotPort
tlvType	uInt16
tlvLength	uInt16
offset	uInt16
buffer	Buf-ptr
len	Buf-len

lldp.MaxNbrsReached

Description

This message is logged when more than 4 neighbors are detected on a port.

Remedy

Currently the switch can only hold 4 neighbors per port, if this limit is reached, no new neighbors are accepted.

Severity

Notice

Message Text

The maximum number of neighbors supported on port `%port%` was exceeded.

Message Parameters

Name	Type
port	ingressSlotPort

lldp.NoPktTransmit

Description

This message is logged every time a LLDP packet was not transmitted due to NetLogin restriction.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support. This message gets logged if NetLogin is enabled on the port, and no clients are authenticated.

Severity

Debug-Data

Message Text

Packet on port `%port%` not transmitted due to NetLogin blockage.

Message Parameters

Name	Type
port	ingressSlotPort

lldp.NoPktReceive

Description

This message is logged every time a LLDP packet was not processed in receive path due to NetLogin restriction.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support. This message gets logged if NetLogin is enabled on the port, and no clients are authenticated.

Severity

Debug-Data

Message Text

Packet on port `%port%` not transmitted due to NetLogin blockage.

Message Parameters

Name	Type
port	ingressSlotPort

lldp.SNMPPoETimeOut

Description

This message is logged when a request for PoE information to the PoE Library was not replied.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Received no response from PoE Library for `%port%`.

Message Parameters

Name	Type
port	SlotPort

lldp.TLVPoETimeOut

Description

This message is logged when a request for PoE information to the PoE Library was not replied.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Received no response from PoE Library for `%port%`.

Message Parameters

Name	Type
port	SlotPort

lldp.PortPhyConfig

Description

This message is logged when port MAC/PHYinformation is received for processing.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

`%port%` MAC/PHY dump: t=`%ptype%`, m=`%media%`, f=`%flow%`, d=`%duplex%`, s=`%speed%`, a=`%autoneg%`

Message Parameters

Name	Type
port	SlotPort
ptype	uInt32
media	uInt32
flow	uInt32
duplex	uInt32
speed	uInt32
autoneg	uInt32

lldp.UPMEvent

Description

This message is logged when LLDP sends an event to UPM.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Send event `%event%` to UPM for port `%port%`, mac `%mac%`, IP `%ip%`, type `%type%`

Message Parameters

Name	Type
event	String
port	SlotPort
mac	MAC
ip	IP
type	xInt32

lldp.ReachNXTDtect

Description

This message is logged when a ReachNXT device is detected on a port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

ReachNXT device detect for port `%port%`, mac `%mac%`

Message Parameters

Name	Type
port	SlotPort
mac	MAC

lldp.ReachNXTRem

Description

This message is logged when a ReachNXT device is removed from a port.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

ReachNXT device remove for port `%port%`, mac `%mac%`

Message Parameters

Name	Type
port	SlotPort
mac	MAC

lldp.SendHalMsgFail

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

lldp.RecvHalMsgFail

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

lldp.IdmgrEvent

Description

This message is logged when LLDP sends an event to Identity Manager.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Send event `%event%` to IdMgr for port `%port%`, mac `%mac%`, device `%device%`

Message Parameters

Name	Type
event	String
port	SlotPort
mac	MAC
device	xInt32

lldp.Dot1brEvent

Description

This message is logged when LLDP sends an event to Dot1br.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

Send event `%event%` to Dot1br for port `%port%`, mac `%mac%`

Message Parameters

Name	Type
event	String
port	SlotPort
mac	MAC

lldp.RemMgmtAddrVLANNotExist

Description

The VLAN configured in LLDP management-address configuration got deleted. So removing LLDP management-address configuration.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Unconfigured Management Address because the VLAN was Deleted

lldp.RemMgmtAddrPrimNotExist

Description

No primary IP addresses exists on the configured VLAN of LLDP management-address configuration. So removing LLDP management-address configuration.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Unconfigured Management Address because the Primary IP was Removed

lldp.RemMgmtAddrSecNotExist

Description

The configured secondary IP address does not exists on the configured VLAN of LLDP management-address configuration. So removing LLDP management-address configuration.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Unconfigured Management Address because the Secondary IP was Removed

lldp.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect operation of the lldp feature.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

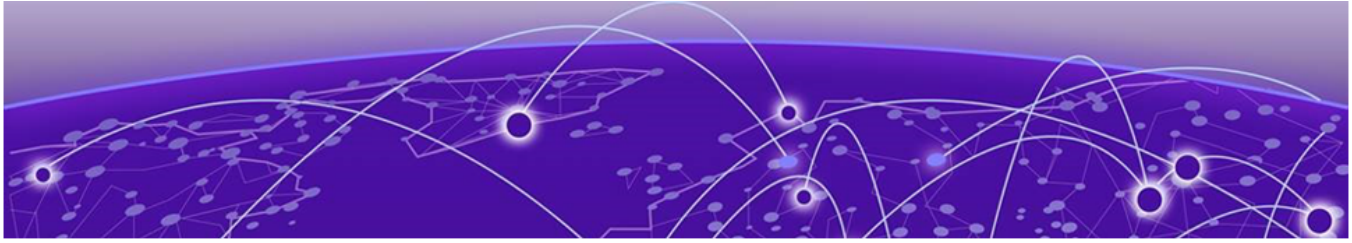
Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure of size `%size%`.

Message Parameters

Name	Type
obj	String
size	uInt32



lldp.DCBX Messages

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lldp.DCBX.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

lldp.DCBX.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required -- Information message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

lldp.DCBX.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

lldp.DCBX.CfgMisMatchDtect

Description

A configuration mismatch has been detected by DCBX for the given TLV on the given port. When the DCB configuration does not match between peer devices, the DCB feature may not be functioning as expected.

Remedy

View relevant "show lldp dcbx" output for more details on the mismatch. If appropriate, modify relevant DCB parameters to rectify the mismatch.

Severity

Warning

Message Text

Configuration mismatch detected by DCBX (`%dcbxVersion%`) for the `%tlvName%` TLV on port `%slotPort%`.

Message Parameters

Name	Type
dcbxVersion	String
tlvName	String
slotPort	SlotPort

lldp.DCBX.CfgMisMatchRslv

Description

A previously reported configuration mismatch has been resolved. The configuration now matches, and the DCB feature should be operating properly.

Remedy

No action required -- Notification message only.

Severity

Notice

Message Text

Configuration mismatch resolved by DCBX (`%dcbxVersion%`) for the `%tlvName%` TLV on port `%slotPort%`.

Message Parameters

Name	Type
dcbxVersion	String
tlvName	String
slotPort	SlotPort

lldp.DCBX.ParmInv

Description

Error checking has determined that an invalid parameter has been passed to the function. Example errors are unexpected NULL pointers or parameters out of range. As a result, the action performed may not have worked as intended.

Remedy

There is no known remedy. Inform engineering. Provide as much information as possible including config file, log file, and a description of actions that were being performed when log message was seen.

Severity

Critical

Message Text

Invalid Parameter `%format%`

Message Parameters

Name	Type
format	Printf

lldp.DCBX.MultiPeerDtect

Description

Multiple LLDP peers have been detected on the given port while running DCBX. The number of peers detected is given in parenthesis after the work "Multiple". DCBX is only supported on point to point links, so this is an unsupported configuration.

Remedy

Disable DCBX on the given port, or reconfigure the network so that there is only one LLDP peer on the given port.

Severity

Warning

Message Text

Multiple(`%numPeers%`) LLDP peers detected by DCBX (`%dcbxVersion%`) on port `%slotPort%`.

Message Parameters

Name	Type
numPeers	uInt16
dcbxVersion	String
slotPort	SlotPort

lldp.DCBX.MultiPeerRslv

Description

A multiple LLDP peer condition reported previously on the give port has been resolved.

Remedy

No action required -- Notification message only.

Severity

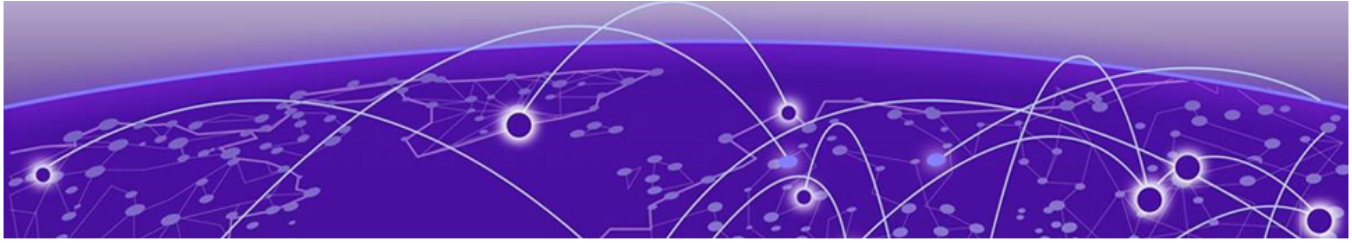
Notice

Message Text

Multiple LLDP peers resolved by DCBX (`%dcbxVersion%`) on port `%slotPort%`.

Message Parameters

Name	Type
dcbxVersion	String
slotPort	SlotPort



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lldp.FA.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

lldp.FA.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

lldp.FA.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

lldp.FA.TmoutPortDev

Description

The Fabric Attach element on the specified port has timed out due to inactivity. This happens because no valid FA Element TLVs were received on the port during the 4-minute timeout interval.

Remedy

No action required - Notification message only.

Severity

Info

Message Text

The Fabric Attach element on port `%port%` has timed out due to inactivity.

Message Parameters

Name	Type
port	SlotPort

lldp.FA.CfgNSIAlrdySet

Description

An attempt was made to configure a Network Service Identifier (NSI) on a VLAN where an NSI value is already set.

Remedy

Remove the existing NSI before setting a new value.

Severity

Error

Message Text

Unable to set NSI `%newNsi%`, on VLAN `%vlan%`, NSI `%oldNsi%` is already set.

Message Parameters

Name	Type
newNsi	uInt32
oldNsi	uInt32
vlan	VLAN-tag

lldp.FA.CreatMgmtVLAN

Description

The Fabric Attach (FA) management VLAN specified was created in the specified VR, and all ports with an active FA element have been added to the management VLAN. This occurs on an FA Proxy if a management VLAN is provided by the FA Server or on an FA Server when the management VLAN is configured. In either case, the management VLAN ID is communicated to all connected FA elements.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Created management VLAN `%vlan%` in VR `%vr%`.

Message Parameters

Name	Type
vlan	VLAN
vr	VR

lldp.FA.EnterSrvrMode

Description

Fabric Attach transitioned from an FA Proxy to an FA Server. This will occur either because a Local Tunnel End Point (LTEP) was created, indicating a connection to VxLAN fabric OR because BGP Auto-peering has been configured.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Entering Fabric Attach Server mode.

lldp.FA.EnterProxyMode

Description

Fabric Attach transitioned from an FA Client to an FA Proxy. This occurs when a FA Client discovers a FA Server.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Entering Fabric Attach Proxy mode.

lldp.FA.ElemTypeChg

Description

The Fabric Attach element type received on the specified port, has changed. This may be due to the discovery of a new FA element or because FA authentication has been

enabled or disabled on an already discovered element (for example "Proxy (No Auth)" to/from "Proxy").

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Element type changed from `%oldElement%` to `%newElement%` on port `%port%`

Message Parameters

Name	Type
newElement	VLAN-tag
port	SlotPort
oldElement	uInt8

lldp.FA.AddPortToVLANFail

Description

An attempt was made to add a list of ports to a VLAN, but the operation did not succeed.

Remedy

The CLI command "show vlan fabric attach assignments" will display VLAN and NSI values known to Fabric Attach for each port . Output from the "show vlan <vlan>" command will include a list of ports that have been added to that VLAN. From these, it is possible to determine which port(s) did not get added, though unless the VLAN manager logs a message, there is no way to tell why the failure occurred.

Severity

Warning

Message Text

Failed to add `%numPorts%` ports to VLAN `%vlanTag%`.

Message Parameters

Name	Type
vlanTag	VLAN-tag
numPorts	sInt32

lldp.FA.DelPortFmVLANFail

Description

An attempt was made to remove a list of ports from a VLAN, but the operation did not succeed.

Remedy

The CLI command "show vlan fabric attach assignments" will display VLAN and NSI values known to Fabric Attach for each port . Output from the "show vlan <vlan>" command will include a list of ports that have been added to that VLAN. From these, it is possible to determine which port(s) did not get removed, though unless the VLAN manager logs a message, there is no way to tell why the failure occurred.

Severity

Warning

Message Text

Failed to remove `%numPorts%` ports from VLAN `%vlanTag%`

Message Parameters

Name	Type
vlanTag	VLAN-tag
numPorts	uInt

lldp.FA.DelAssgnNotInuse

Description

The specified dynamic assignment of the Network Service Identifier (NSI) to the VLAN has timed out because the FA Client on that port has not requested it during the timeout period. If the port is a server port, then the assignment is removed when no client has requested it on any port during the timeout period.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Deleted assignment of NSI `%nsi%` to VLAN `%vlanTag%` on `%portType%` port `%port%` due to inactivity.

Message Parameters

Name	Type
vlanTag	VLAN-tag
nsi	uInt32
portType	String
port	SlotPort

lldp.FA.EnterClntMode

Description

Fabric Attach transitioned to an FA Client. Fabric Attach will operate as a Client unless it detects a FA Server or is configured to become an FA server.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Entering Fabric Attach Client mode.

lldp.FA.AssgnNSIVLANReject

Description

Either another NSI has already been assigned to this VLAN or the specified NSI has already been assigned to another VLAN. This indicates a misconfiguration that must be corrected before the system can function as desired.

Remedy

Verify that the VLAN/NSI assignment reflected in this message is correct. If so, display the current VLAN/NSI assignments (show fabric attach assignments) and look for an assignment of the specified VLAN to a different NSI, or the specified NSI to a different VLAN. Note the port number of that conflicting assignment and correct the configuration of the device on that port. If no port number is listed for the conflicting entry then the configuration was entered by Policy, RADIUS, VLAN CLI or OTM CLI. If no conflict is found, then another device connected to the FA Server has requested a conflicting assignment. Repeat this process on the server to identify the conflicting device.

Severity

Warning

Message Text

Fabric Attach assignment of NSI `%nsi%` to VLAN `%vlanTag%` has been rejected.

Message Parameters

Name	Type
nsi	uInt32
vlanTag	VLAN-tag

lldp.FA.PeerModeCflct

Description

MLAG peers should be in the same fabric attach mode. This may indicate a transient condition, which can occur during configuration or boot of one or both of the MLAG peers. If the condition persists after both peers have been operational for more than the LLDP transmit interval (default 30 seconds), then one of the peers is likely misconfigured.

Remedy

All Fabric Attach (FA) devices start in client mode and communicate with other FA devices using LLDP. Transition to a proxy occurs when the client receives communication from a FA server. A FA server must be configured, either by creating a Local Tunnel End Point (LTEP) or enabling auto-peering; this configuration should be the same in both peers. The "show fabric attach elements" command will display a list of known FA devices, verify that the expected devices are seen by each peer.

Severity

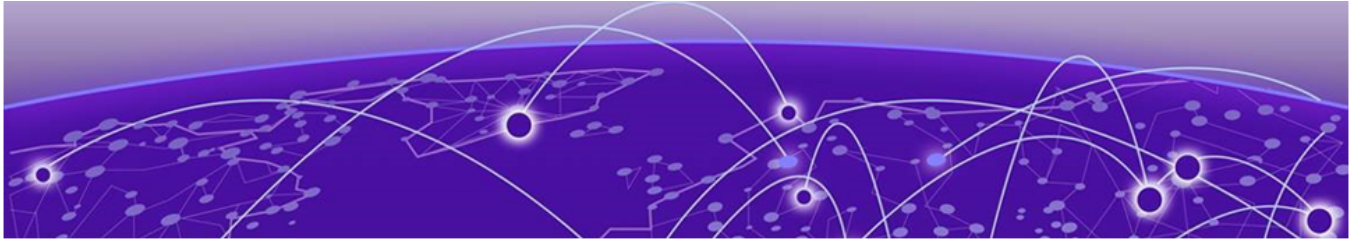
Error

Message Text

Fabric attach `%mode1%` mode conflicts with fabric attach `%mode2%` mode on MLAG peer `%peerName%`.

Message Parameters

Name	Type
mode1	String
mode2	String
peerName	String



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lldp.VSM.ClntInitFail

Description

Initialization of LLDP with VSM module has failed. In such a case MLAG functionality with respect to dot1br extended ports will not function properly.

Remedy

This is a rare condition which may be related to software, and may require a reboot to correct the problem.

Severity

Error

Message Text

VSM client initialization failed, Error = `%err%`

Message Parameters

Name	Type
err	sInt

lldp.VSM.CreatISC

Description

This is a debug message indicating that an ISC is being created.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

Create ISC for index `%isc%`

Message Parameters

Name	Type
isc	uInt16

lldp.VSM.DelISC

Description

This is a debug message indicating that an ISC is being deleted.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

Deleting ISC for index `%isc%`

Message Parameters

Name	Type
isc	uInt16

lldp.VSM.AllocBufFail

Description

Allocation of checkpoint buffer has failed for the specified ISC (Inter Switch Connection connecting to an MLAG peer). In such a case MLAG functionality with respect to dot1br extended ports will not function properly.

Remedy

This is an internal condition related to software. Check abnormal memory utilization of any process using "show memory". You may need to scale down the configuration related to it.

Severity

Error

Message Text

Unable to allocate IPML buffer for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

lldp.VSM.AllocAppDataFail

Description

Allocation of application specific data buffer has failed for the specified ISC (Inter Switch Connection connecting to an MLAG peer). In such a case MLAG functionality with respect to dot1br extended ports will not function properly.

Remedy

This is an internal condition related to software. Check abnormal memory utilization of any process using "show memory". You may need to scale down the configuration related to it.

Severity

Error

Message Text

Unable to allocate ISC-specific global information for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

lldp.VSM.CreatCkptTxTimer

Description

This is a debug message indicating that a timer which is used for transmitting checkpoint messages is created. This message will appear when the first ISC is being created.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

Checkpoint Tx timer created

lldp.VSM.DelCkptTxTimer

Description

This is a debug message indicating that the timer used for transmitting checkpoint messages is deleted. This message will appear when the last ISC is being deleted.

Remedy

No action required -- Information message only.

Severity

Debug-Summary

Message Text

Checkpoint Tx timer deleted

lldp.VSM.NtfyMLAGStateChg

Description

This is a debug message indicating that parameters relating to an MLAG have changed.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

MLAG state change notification for index `%mlag%`, ISC `%isc%`, remote port state `%state%`

Message Parameters

Name	Type
mlag	uInt16
isc	uInt16
state	sInt

lldp.VSM.GetLocMLAGPortInstcFail

Description

This message indicates that an attempt to get the port instance value for an MLAG from VSM has failed.

Remedy

This is a rare condition which may be related to software, and may require a reboot to correct the problem.

Severity

Error

Message Text

Unable to get local port instance for MLAG `%mlag%`, Error = `%err%`

Message Parameters

Name	Type
mlag	uInt16
err	sInt

lldp.VSM.MLAGPortInstcInv

Description

This message indicates that the port instance value for the specified MLAG is invalid.

Remedy

This is a rare condition which may be related to software, and may require a reboot to correct the problem.

Severity

Error

Message Text

Invalid port instance for MLAG `%mlag%`

Message Parameters

Name	Type
mlag	uInt16

lldp.VSM.GetLocMLAGPortStateFail

Description

This message indicates that an attempt to get the local MLAG port state from VSM has failed.

Remedy

This is a rare condition which may be related to software, and may require a reboot to correct the problem.

Severity

Error

Message Text

Unable to get local port state for MLAG `%mlag%`, Error = `%err%`

Message Parameters

Name	Type
mlag	uInt16
err	sInt

lldp.VSM.IgnCkptMsgUnkOwner

Description

This message indicates that the received checkpoint message is being ignored since the owner field in the packet header is not valid.

Remedy

Ensure the EXOS versions on the M-LAG peers are compatible. One of the M-LAG may require an upgrade to a more recent version of EXOS.

Severity

Debug-Data

Message Text

Ignore checkpoint message, invalid owner role = `%role%`

Message Parameters

Name	Type
role	uInt8

lldp.VSM.IgnCkptTLV

Description

This is a debug message which indicates that a checkpoint message of unknown type is not being processed.

Remedy

No action required -- Information message only.

Severity

Debug-Verbose

Message Text

Ignore Checkpoint TLV, invalid type `%type%` on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
type	uInt16

lldp.VSM.IgnPktUnkPortType

Description

This is a debug message which indicates that a LLDP packet of unknown porTtype is not being processed.

Remedy

No action required -- Information message only.

Severity

Debug-Verbose

Message Text

Ignore LLDP packet, invalid portType `%type%` on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
type	uInt16

lldp.VSM.AllocCkptMsgFail

Description

This message indicates that an attempt to allocate a buffer to hold the checkpoint message has failed.

Remedy

This is an internal condition related to software. Check abnormal memory utilization of any process using "show memory". You may need to scale down the configuration related to it.

Severity

Error

Message Text

Failed to allocate checkpoint message buffer for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

lldp.VSM.MLAGStrtCkpt

Description

This is a debug message which indicates that bulk checkpoint has started for the specified MLAG.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Start Checkpoint for MLAG `%mlag%`, ISC `%isc%`

Message Parameters

Name	Type
mlag	uInt16
isc	uInt16

lldp.VSM.StrtCkpt

Description

This is a debug message which indicates that bulk checkpoint has started for the specified MLAG.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Start Checkpoint for `%port%`, ISC `%isc%`

Message Parameters

Name	Type
port	ingressSlotPort
isc	uInt16

lldp.VSM.TxCkptMsg

Description

This is a debug message which indicates a checkpoint message has been transmitted to an MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx checkpoint message `%len%` bytes on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16

lldp.VSM.RxCkptMsg

Description

This is a debug message which indicates a checkpoint message has been received from an MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Rx checkpoint message `%len%` bytes on ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16

lldp.VSM.RxLLDPPkt

Description

This is a debug message which indicates a LLDP packet has been received from an MLAG peer.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Rx LLDP packet `%len%` bytes for ISC `%isc%` INPORT `%port%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16
port	ingressSlotPort

lldp.VSM.TxLLDPPkt

Description

This is a debug message which indicates a LLDP packet has been transmitted to an MLAG peer.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Tx LLDP packet `%len%` bytes for ISC `%isc%` INPORT `%port%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16
port	ingressSlotPort

lldp.VSM.IgnCkptMsgUnkVer

Description

This message indicates that the received checkpoint message is being ignored since the version is not compatible with the running version.

Remedy

Ensure the EXOS versions on the M-LAG peers are compatible. One of the M-LAG may require an upgrade to a more recent version of EXOS.

Severity

Debug-Data

Message Text

Ignore checkpoint message, unknown version `%rxVer%`, supported version `%ver%`

Message Parameters

Name	Type
rxVer	uInt16
ver	uInt16

lldp.VSM.TxNSIPkt

Description

This is a debug message which indicates a NSI packet has been transmitted to an MLAG peer over the given ISC for the given MLAG index.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Tx NSI packet `%len%` bytes for ISC `%isc%` MLAG `%mlag%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16
mlag	uInt16

lldp.VSM.RxNSIPkt

Description

This is a debug message which indicates a NSI packet has been received from an MLAG peer over the given ISC for the given MLAG index.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Rx NSI packet `%len%` bytes for ISC `%isc%` MLAG `%mlag%`

Message Parameters

Name	Type
isc	uInt16
len	uInt16
mlag	uInt16

lldp.VSM.TxGetNSI

Description

This is a debug message which indicates a get NSI request has been transmitted to an MLAG peer.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Tx Get NSI for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

lldp.VSM.RxGetNSI

Description

This is a debug message which indicates a get NSI request has been received from an MLAG peer.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Rx Get NSI for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

lldp.VSM.TxFAInfo

Description

This is a debug message which indicates that FA info has been transmitted to an MLAG peer.

Remedy

No action required -- Information message only.

Severity

Debug-Data

Message Text

Tx FA Info for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

lldp.VSM.RxFAInfo

Description

This is a debug message which indicates that FA info has been received from an MLAG peer.

Remedy

No action required -- Information message only.

Severity

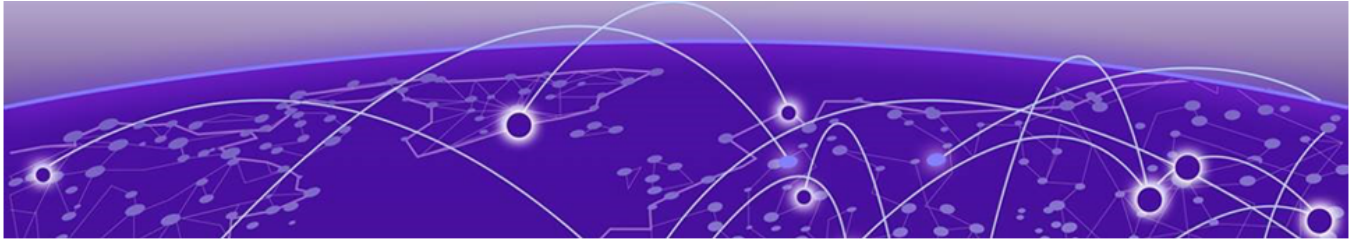
Debug-Data

Message Text

Rx FA Info for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16



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log.noBuffer on page 3029
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log.ClientBufOvrfl

Description

This message gets logged when a client registered with the server, and has lost messages due to buffer overrun.

Remedy

No remedy is available.

Severity

Warning

Message Text

`%client%` dropped `%num%` messages before registration was finished.

Message Parameters

Name	Type
client	String
num	uInt

log.unregReq

Description

This message indicates a client has requested to unregister a component.

Remedy

This is an informational debug message.

Severity

Debug-Summary

Message Text

Received component unregistration request from \"`%name%`\"[`%chassis%.%slot%.%pid%`] for \"`%comp%`\"

Message Parameters

Name	Type
comp	String
name	String
chassis	uInt

Name	Type
slot	uInt
pid	uInt

log.regReq

Description

This message indicates a client has requested to register a component.

Remedy

This is an informational debug message.

Severity

Debug-Summary

Message Text

Received component registration request from \"`%name%`\"[`%chassis%.%slot%.%pid%`] for \"`%comp%`\" v`%format%.%content%`

Message Parameters

Name	Type
comp	String
name	String
chassis	uInt
slot	uInt
pid	uInt
format	uInt
content	uInt

log.regFinAck

Description

This message indicates the server has acknowledged a component registration.

Remedy

This is an informational debug message.

Severity

Debug-Summary

Message Text

Transmitted component regFinAck[%oldIndex%:%newIndex%] for \"%comp%\" to client \"%name%\", peer %peer%

Message Parameters

Name	Type
comp	String
name	String
peer	uInt
oldIndex	sInt
newIndex	sInt

log.NVRAM_Reset

Description

When the NVRAM memory header or it's records are found incorrect the NVRAM Log header will be reseted.

Remedy

This will happen when the NVRAM was not used before, or due to an NVRAM layout change.

Severity

Info

Message Text

The NVRAM target log message storage header has been reset.

log.NVRAM_Update

Description

The log facility was unable to update the NVRAM LOG header to the NVRAM.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with outputs of "show tech" and "run diags".

Severity

Error

Message Text

Unable to update the NVRAM target log message storage header [return error: `%errMsg%`].

Message Parameters

Name	Type
errMsg	String

log.NVRAM_Validate

Description

The log facility failed to validate the newly created NVRAM Log header. The following header info are checked: signature, size, start offset and end offset.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with outputs of "show tech" and "run diags".

Severity

Error

Message Text

Updated NVRAM Log header failed validation [`%signature%`, `%size%`, `%startOffset%`, `%endOffset%`].

Message Parameters

Name	Type
signature	xInt32
size	uInt
startOffset	uInt
endOffset	uInt

log.NVRAM_Init

Description

The NVRAM target was successfully initialized.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

The NVRAM target was successfully initialized.

log.serverStarted

Description

This message gets displayed when the emsServer starts.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

The Event Management System logging server has started.

log.clientNew

Description

This message indicates a client has connected to the server.

Remedy

This is an informational message.

Severity

Debug-Summary

Message Text

A new client application has connected to the server with peer ID `%peer%`

Message Parameters

Name	Type
peer	uInt

log.clientID

Description

This message indicates a client has connected to the server.

Remedy

This is an informational message.

Severity

Debug-Summary

Message Text

Received CLIENT_ID from client with peer ID `%peer%`: `%name%` [`%chassis%.%slot%.%pid%`]

Message Parameters

Name	Type
peer	uInt
name	String
chassis	uInt
slot	uInt
pid	uInt

log.clientDead

Description

This message indicates a client was disconnected from the log server

Remedy

This is an informational message.

Severity

Debug-Summary

Message Text

Client `%name%` [`%chassis%.%slot%.%pid%`] with peer ID `%peer%` has died

Message Parameters

Name	Type
peer	uInt
name	String
chassis	uInt
slot	uInt
pid	uInt

log.noBuffer

Description

The log server is unable to allocate an ipml packet for sending an internal message.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Error

Message Text

Unable to allocate a buffer for sending a `%packetType%` packet.

Message Parameters

Name	Type
packetType	String

log.dupClient

Description

The specified client is trying to register itself twice. The following paramters are shown in message: process name, incoming client peer ID, existing client peer ID, chassis ID, slot ID and process ID.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Warning

Message Text

Duplicate client registration detected for client `%name%` [`%peerOne%.%peerTwo%:%chassis%.%slot%.%pid%`]

Message Parameters

Name	Type
name	String
peerOne	uInt

Name	Type
peerTwo	uInt
chassis	uInt
slot	uInt
pid	uInt

log.maxDupComp

Description

A given filter item can only be subscribed to a maximum number of component. If more components with the same name but with different versions exists the mentioned filters might not be functioning correctly.

Remedy

This should normally not happen as filters are being removed when this limitation is reached. Check with the "show log component" command to see if the limitation is hit. One reason for this to happen is that not all applications in the system are upgraded and therefore more versions could exist. Try restarting the log server.

Severity

Error

Message Text

More than `%num%` versions of the \"`%comp%`\" component exist, causing filter \"`%filter%`\" not to be initialized correctly.

Message Parameters

Name	Type
num	uInt
comp	String
filter	String

log.syslogSocket

Description

The log server was unable to allocate a system socket for communication with syslog servers.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Error

Message Text

Unable to allocate system socket for syslog server communication [`%errMsg%`].

Message Parameters

Name	Type
errMsg	String

log.syslogBind

Description

The log server was unable to bind UDP or TCP port to the syslog client.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Error

Message Text

Unable to bind syslog client socket to address `%sockaddr%` port `%port%` [`%error%`]

Message Parameters

Name	Type
sockaddr	SockAddr
port	L4port
error	String

log.syslogVRID

Description

The log server was unable to assign the correct VR ID for the syslog client.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Error

Message Text

Unable to set VR ID `%vrid%` for syslog client socket [`%error%`]

Message Parameters

Name	Type
vrid	VRID
error	String

log.dumpClient

Description

This message will tell the user which clients have registered for a specific component library in memory.

Remedy

These messages get generated when component information is requested from the shell, and a filter is setup to include them.

Severity

Debug-Data

Message Text

Component \"`%component%`\" v`%formatVer%.%contentVer%` has registered client \"`%clientName%`\" peerID `%clientPeer%`

Message Parameters

Name	Type
component	String
formatVer	uInt
contentVer	uInt
clientName	String
clientPeer	uInt

log.compClients

Description

This indicates that to many identical components are registered, but garbage collection failed. The reason for this is that these duplicate components are actually being used by applications.

Remedy

Figure out which applications are still using an older version of the component and upgrade those applications. This can be done by enabling the "log.dumpClient" message (dont forget to "enable log debug-mode"), and do a "show log components". The log will now contain a list of debug messages telling you which client is using which component.

Severity

Error

Message Text

More than `%maxclients%` versions of \"`%component%`\" are registered. Reduction failed; to many registered clients [`%clients%`]

Message Parameters

Name	Type
maxclients	uInt
component	String
clients	uInt

log.compLog

Description

When trying to reduce the number of identical components from the system this version could not be removed as log messages where still in the memory-buffer target.

Remedy

This could cause problems for filtering, and you can either stop/start the log server, or the specific application using the component (after you did a "clear log"). See compClients for information on how to obtain the component owner.

Severity

Error

Message Text

Component \"`%component%`\" v`%formatVer%.%contentVer%` could not be removed, as it has pending log messages.

Message Parameters

Name	Type
component	String
formatVer	uInt
contentVer	uInt

log.compRemoved

Description

This message indicates this version of the component has been removed from the system due to garbage collection.

Remedy

Nothing, this is normal behavior.

Severity

Info

Message Text

Component \"%component%\" v%formatVer%.%contentVer% has been removed from the system.

Message Parameters

Name	Type
component	String
formatVer	uInt
contentVer	uInt

log.compRegFailed

Description

This indicates that to many identical components are registered, but garbage collection failed. The reason for this is that these components still have messages in the memory-target.

Remedy

See "log.compLog" for more information.

Severity

Error

Message Text

More than %maxclients% versions of \"%component%\" are registered. Reduction failed; memory-target

Message Parameters

Name	Type
maxclients	uInt
component	String

log.tftpSend

Description

This is a debug message than can be used to debug tftp log uploads. This should only be enabled when requested by the Extreme Networks support organization.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

emsTftpSend(`%ip%`, `%port%`, `%size%`, `%replyOpcode%`) called.

Message Parameters

Name	Type
ip	IPN
port	uInt
size	uInt
replyOpcode	uInt

log.tftpOut

Description

This is a debug message than can be used to debug tftp log uploads. This should only be enabled when requested by the Extreme Networks support organization.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Outgoing tftp packet to `%ip%:%port%` size `%size%` bytes

Message Parameters

Name	Type
ip	IPN
port	uInt
size	uInt
outpacketp	Buf-ptr
packetlen	Buf-len

log.tftpIn

Description

This is a debug message than can be used to debug tftp log uploads. This should only be enabled when requested by the Extreme Networks support organization.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Incoming tftp packet from `%ip%:%port%` size `%size%` bytes

Message Parameters

Name	Type
ip	IPN
port	uInt
size	uInt
inpacketp	Buf-ptr
packetlen	Buf-len

log.tftpTimeout

Description

This is a debug message than can be used to debug tftp log uploads. This should only be enabled when requested by the Extreme Networks support organization.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Timeout when waiting for `%ip%:%port%`

Message Parameters

Name	Type
ip	IPN
port	uInt

log.tftpError

Description

This is a debug message than can be used to debug tftp log uploads. This should only be enabled when requested by the Extreme Networks support organization.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Received error on `%ip%:%port%` error `%error%`, \"`%errorMsg%`\"

Message Parameters

Name	Type
ip	IPN
port	uInt
error	uInt
errorMsg	String

log.uplLogStart

Description

This message gets logged as a result of the "upload log command".

Remedy

This is an informational message.

Severity

Info

Message Text

Start uploading log to `%ip%`, remote file name \"`%file%`\"

Message Parameters

Name	Type
ip	IPN
file	String

log.uplLogFinished

Description

This message gets logged as a result of the "upload log command".

Remedy

This is an informational message.

Severity

Info

Message Text

Finished uploading log to `%ip%`, remote file name \"`%file%`\"

Message Parameters

Name	Type
ip	IPN
file	String

log.uplLogError

Description

This message gets logged due to an error as a result of the "upload log command".

Remedy

If the information reported by this message is not clear enough, try to enable the tftp* debug messages.

Severity

Error

Message Text

Error uploading log to `%ip%`, remote file name \"`%file%`\": `%error%`

Message Parameters

Name	Type
ip	IPN
file	String
error	String

log.initFilter

Description

During initialization, the log server initializes the DefaultFilter to its default configuration which includes a rule to allow all components to log message at their respective FactoryThreshold: Log Filter Name: DefaultFilter I/ Severity E Component SubComponent Condition CEWNISVD - ---------- ---------- ---------- -------- I All ******** The log server causes this event if there is not sufficient memory to allocate for the filter and the rule, or if some other internal inconsistency occurs which prevents the log server from successfully completing the default configuration of the DefaultFilter. The log server will continue to operate despite this condition, although its functionality will be very limited. In particular, there may be no DefaultFilter at all, and it may not even be possible for this event message to be logged.

Remedy

There is no specific work-around if this condition does occur - it is most likely the result of some internal inconsistency or the overallocation of memory either by the log server or some other process. The output from the "show log configuration filter" and the "show memory" commands should be obtained to help in trouble-shooting this problem.

Severity

Error

Message Text

The log server was unable to initialize the default filter configuration

log.initTarget

Description

During initialization, the log server minimally initializes the memory-buffer, nvram, and console log targets to their default configurations. * (pacman debug) Slot-2 Stack.3 # show log configuration target Log Target : memory-buffer Enabled : yes Filter Name : DefaultFilter Match regex : Any Severity : Debug-Data (through Critical) Format : MM/DD/YYYY HH:MM:SS.hh <Severity:Component.SubComponent.Condition> Slot: Buffer size : 1000 messages Log Target : nvram Enabled : yes Filter Name : DefaultFilter Match regex : Any Severity : Warning (through Critical) Format : MM/DD/YYYY HH:MM:SS.hh <Severity:Component.SubComponent.Condition> Slot: Log Target : console Enabled : yes Filter Name : DefaultFilter Match regex : Any Severity : Info (through Critical) Format : MM/DD/YYYY HH:MM:SS.hh <Severity:Component.SubComponent.Condition> Slot: The log server causes this event if there is not sufficient memory to allocate for these targets, or if some other internal inconsistency occurs which prevents the log server from successfully

completing setting their default configuration. The log server will continue to operate despite this condition, although its functionality will be very limited. In particular, there may be no log targets at all, and it may not even be possible for this event message to be logged.

Remedy

There is no specific work-around if this condition does occur - it is most likely the result of some internal inconsistency or the overallocation of memory either by the log server or some other process. The output from the "show log configuration target" and the "show memory" commands should be obtained to help in trouble-shooting this problem.

Severity

Error

Message Text

The log server was unable to initialize the default target configuration

log.sendClrCounters

Description

Debug message indicating we have requested to clear the event counters for the specified component.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Send clear counters request to `%app%` for `%comp%.%event%` severity `%sev%`.

Message Parameters

Name	Type
app	String
comp	String

Name	Type
event	String
sev	xInt

log.recvCounter

Description

This log message will tell you how many times the specified event has occurred for the mentioned application.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Received count value of `%count%` from `%app%` for `%comp%.%event%`.

Message Parameters

Name	Type
app	String
comp	String
event	String
count	uInt

log.NVRAM_Failed

Description

During NVRAM target initialization, log messages are first read from NVRAM, then written into memory buffer.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with outputs of "show tech" and "run diags".

Severity

Error

Message Text

The NVRAM target failed initialization.

log.NVRAM_Corrupted

Description

The current NVRAM content is corrupted, NVRAM needs to be reinitialized.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with outputs of "show tech" and "run diags".

Severity

Error

Message Text

Current NVRAM content is corrupted.

log.AlertMbufTrgtPrcntFull

Description

The percent full alert for the memory-buffer has been configured and the percent full threshold for the alert has been met. When the memory-buffer becomes full, it starts wrapping. The oldest messages will be replaced by the new ones.

Remedy

When the memory-buffer becomes full, it starts wrapping. The oldest messages will be replaced by the new ones. To avoid possible message loss, please use "configure log target memory-buffer number-of-messages" command to increase the buffer size.

Severity

Notice

Message Text

The memory-buffer log target is `%percent%%%` full with `%numOfMsg%` of a possible `%bufSize%` messages currently logged.

Message Parameters

Name	Type
percent	uInt
numOfMsg	uInt
bufSize	uInt

log.Shutdown

Description

This event occurs when the EMS server receives a shutdown request from EPM.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

The Event Management System logging server is shutting down.

log.SyslogSSLFail

Description

Fail to establish SSL connection to syslog server. The reason for SSL failure is described in one of the following messages: "Can't allocate system resources to execute command.", "Certificate not found. Use 'Download ssl certificate' command to download a certificate.", "Private Key not found. Use 'Download ssl privkey' command to download a private key.", "CA Certificate not found. Use 'Download ssl certificate trusted-ca' command to download a CA certificate.", "Can't setup socket.", "Can't init SSL library.", "Can't create SSL CTX.", "Can't set file status flags.", "Invalid parameter.", "Can't load CA certificate.", "Can't load certificate.", "Can't load private key.", "Can't create SSL.", "Can't create BIO.", "Can't dispatch connect process.", "Dispatch timeout.", "Can't connect to syslog server.", "Can't connect to syslog server with SSL.", "Invalid connect state.", "Can't get syslog server certificate.", "Syslog server certificate purpose check failed.", "Server authentication purpose not found in extendedKeyUsage field in syslog server

certificate.", "digitalSignature bit not set in keyUsage field in syslog server certificate.", "Can't start OCSP revocation check.", "OCSP revocation check failed."

Remedy

Resolve specific cause for the connection failure.

Severity

Error

Message Text

Syslog SSL connection(`%dstIP%:%tlsPort%`) failed: `%errString%`

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16
errString	String

log.SyslogSSLCnctFail

Description

Fail to establish SSL connection to syslog server.

Remedy

Resolve specific cause for the connection failure.

Severity

Error

Message Text

Syslog SSL connection(`%dstIP%:%tlsPort%`) failed: `%cmErrStr%` `%fncName%` returned \"`%errStr%`\".

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16
cmErrStr	String
fncName	String
errStr	String

log.SyslogSSLOCSPFail

Description

OCSP check failed

Remedy

Resolve specific cause for the ocsp failure.

Severity

Error

Message Text

Syslog SSL connection(`%dstIP%:%tlsPort%`) failed: `%cmErrStr%` at depth `%depth%`. `%fncName%` returned \"`%errStr%`\".

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16
cmErrStr	String
fncName	String
errStr	String
depth	sInt

log.SyslogSSLCnctEstb

Description

SSL connection to syslog server is successfully established.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Syslog SSL connection(`%dstIP%:%tlsPort%`) established.

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16

log.SyslogSSLRecnctStrt

Description

Automatic periodic SSL reconnection to syslog server has started.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Starting syslog SSL reconnection(`%dstIP%:%tlsPort%`) timer with an initial period of `%timerPeriod%` seconds.

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16
timerPeriod	uInt

log.SyslogSSLCnctLost

Description

SSL connection to syslog server is lost.

Remedy

Wait for network connection to resume or fix any problem that has brought down network connection between switch and syslog server.

Severity

Error

Message Text

Syslog SSL connection(`%dstIP%:%tlsPort%`) is lost.

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16

log.SyslogSSLMsgQueFull

Description

Internal message queue for syslog SSL connection has exceeded its predefined limit. New messages will be dropped.

Remedy

Check if SSL connection is successfully established. If not, resolve problems that cause the connection failure.

Severity

Warning

Message Text

Message Queue for syslog SSL connection(`%dstIP%:%tlsPort%`) is full, dropping new messages.

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16

log.SyslogSSLAddDsptchFail

Description

Could not add the given socket to dispatcher.

Remedy

Try to replicate this issue and report it to Extreme Networks technical support center.

Severity

Error

Message Text

Failed to add socket `%socket%` for syslog SSL connection(`%dstIP%:%tlsPort%`) to dispatcher.

Message Parameters

Name	Type
socket	sInt
dstIP	IPaddrN
tlsPort	uInt16

log.SyslogSSLStrtTimerFail

Description

Failed to start timer for syslog SSL reconnection.

Remedy

Check the switch memory statistics. Otherwise reboot switch.

Severity

Error

Message Text

Failed to start timer for syslog SSL connection(`%dstIP%:%tlsPort%`).

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16

log.SyslogSSLWritFail

Description

SSL_write failed.

Remedy

No action required - dispatch will call SSL_write again.

Severity

Warning

Message Text

SSL Write to syslog server (`%dstIP%:%tlsPort%`) failed.

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16

log.EnblFIPSModeFail

Description

Unable to properly configure crypto lib with FIPS mode enabled.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Error

Message Text

Failed to enable FIPS mode: `%errString%`

Message Parameters

Name	Type
errString	String

log.EnblFIPSModeOK

Description

FIPS mode is enabled in EMS process.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Self-Test passed. FIPS mode enabled.

log.NVRAMFull

Description

NVRAM is full, old messages will be deleted to create space for new messages.

Remedy

User can download event logs stored in NVRAM via TFTP using "upload log" command, then delete the logs using "clear log" command.

Severity

Warning

Message Text

NVRAM is full, old messages are overwritten.

log.CfgGlob

Description

Global log configuration is changed by issuing one of the following commands: "configure log message privilege [admin | user]" "[enable | disable]" log debug-mode"

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Global log configuration changed.

log.CreatTrgt

Description

Log target is created.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Log target `%targetName%` is created.

Message Parameters

Name	Type
targetName	String

log.CfgTrgt

Description

Log target configuration has been changed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Log target `%targetName%` configuration changed.

Message Parameters

Name	Type
targetName	String

log.CreatFilt

Description

Log filter is created.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Log filter `%filterName%` is created.

Message Parameters

Name	Type
filterName	String

log.CfgFilt

Description

Log filter configuration has been changed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Log filter `%filterName%` configuration changed.

Message Parameters

Name	Type
filterName	String

log.SyslogSSLCnctTerm

Description

SSL connection to syslog server is terminated by disabling all targets that share the same connection.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Syslog SSL connection(`%dstIP%:%tlsPort%`) terminated.

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16

log.RslvHostNameFail

Description

Hostname to IP address lookup failed.

Remedy

Check switch DNS configuration. "configure dns-client add" is used to specify DNS server: "configure dns-client default-domain" is used to specify a default domain when hostname is used without a domain: "ping" command can be used to test DNS functionality.

Severity

Error

Message Text

Can't resolve hostname `%hostname%` for TFTP log upload.

Message Parameters

Name	Type
hostname	String

log.SyslogSSLParmInv

Description

Fail to establish SSL connection to syslog server due to invalid parmaters passed to connection routines.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

Error

Message Text

Syslog SSL connection failed due to invalid internal parameters.

log.CrtfctVrfyFail

Description

SSL certificate verification failed.

Remedy

Resolve specific cause for the certificate verification error.

Severity

Error

Message Text

Syslog SSL certificate verificatation error: `%err%` (`%errString%`)\nCertificate at depth: `%depth%`\nIssuer: `%issuer%`\nSubject: `%subject%`

Message Parameters

Name	Type
err	sInt
errString	String
depth	sInt
issuer	String
subject	String

log.SyslogSSLFailNoReason

Description

Fail to establish SSL connection to syslog server with unknown reason. SSL library did not return a valid error code. One possible scenario is that server closes socket after receiving hello message from client.

Remedy

In certain rare cases, SSL connect could fail with no error returned. Contact technical support with "show tech" output for further assistance.

Severity

Error

Message Text

Syslog SSL connection(`%dstIP%:%tlsPort%`) failed: `%cmErrStr%` Unexpected behavior, reason unknown.

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16
cmErrStr	String

log.ClrLogMsg

Description

Log messages in memory-buffer or nvram are cleared.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

User `%user%`: Cleared the log messages in `%logTargetName%`.

Message Parameters

Name	Type
user	AccountName
logTargetName	String

log.SyslogSSLOCSPStrtFail

Description

unable to start OCSP check

Remedy

Resolve specific cause for the ocsp failure.

Severity

Error

Message Text

Syslog SSL connection(`%dstIP%:%tlsPort%`) failed: `%cmErrStr%` `%fncName%` returned \"`%errStr%`\".

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16
cmErrStr	String
fncName	String
errStr	String

log.DelSyslogTrgtVRDel

Description

Syslog target is being deleted because its VR was deleted.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Deleted the syslog target (`%dstIP%` `%portType%` `%tlsPort%` VR `%vrName%` `%local%`) because VR `%vrName%` was deleted.

Message Parameters

Name	Type
dstIP	IPaddrN
tlsPort	uInt16
portType	String
local	String
vrName	VR

log.tftpBlkOptNotSuprt

Description

The blockzide option is not supported by the tftp server. Standard fixed blocksize is used.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

The blocksize option is not supported by the tftp server on `%ip%`. Blocksize `%blkSiz%` is used.

Message Parameters

Name	Type
ip	IPN
blkSiz	uInt

log.EnblOCSP

Description

Online Certificate Status Protocol (OCSP) for real-time certificate revocation status checking is enabled.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

OCSP is enabled.

log.DsblOCSP

Description

Online Certificate Status Protocol (OCSP) for real-time certificate revocation status checking is disabled. This is not a recommended configuration.

Remedy

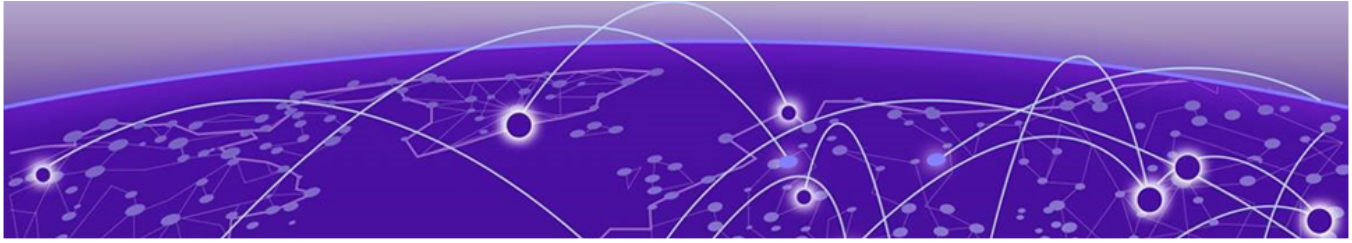
It is recommended to have OCSP enabled for security.

Severity

Warning

Message Text

OCSP is disabled. This switch has no way of knowing if a syslog server's certificate has been revoked.



MACsec Messages

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MACsec.PortDebugEvent

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Generic MACsec debug condition on port `%slotPort%`: `%msg%`.

Message Parameters

Name	Type
slotPort	SlotPort
msg	Printf

MACsec.DebugVerbose

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Generic MACsec debug data: `%msg%`.

Message Parameters

Name	Type
msg	Printf

MACsec.AllocMemFail

Description

An attempt to allocate the specified memory size failed. Memory is used for sending registration messages to the VLAN manager.

Remedy

An unexpected internal error. Contact technical support with output of "show tech".

Severity

Error

Message Text

Memory allocation (`%size%`, `%description%`) failure

Message Parameters

Name	Type
size	uInt
description	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.RecvUnkMsgType

Description

MACsec received an unknown or unrecognized internal message from the HAL. Messages of unknown type are ignored.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with output of "show tech".

Severity

Warning

Message Text

Received unknown (`%msgName%`) message with type (`%msgType%`) from peer (`%peerId%`)

Message Parameters

Name	Type
msgName	String
msgType	xInt32
peerId	xInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.VLANOperFail

Description

PDUs are slow path forwarding due to an error while registering or deregistering MACsec with VLAN or while controlling the blocking state of MACsec. Possible actions include register, deregister, set and bulk-set to the VLAN manager.

Remedy

This may occur if registration with the VLAN protocol failed during initialization; check Protocol ID is valid and check system boot log messages via the command "show log" for any system wide failure. Restarting the process will correct the problem if necessary.

Severity

Error

Message Text

Protocol ID : `%protoId%` : Failed to `%actionStr%` Virtual Port Interface state for port `%slotPort%`

Message Parameters

Name	Type
protoId	uInt
actionStr	String
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PortFail

Description

Underlying system behavior relating to ports that was expected to work does not.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with output of "show tech".

Severity

Warning

Message Text

On port `%slotPort%` failed: (`%description%`)

Message Parameters

Name	Type
slotPort	SlotPort
description	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.BlkPort

Description

MACsec control port is down/blocking awaiting authentication. All traffic but MACsec PDUs will be blocked. MACsec is enabled but is waiting on valid key exchange (authentication) with remote port before allowing any other traffic.

Remedy

No action required - Notification message only. If the key exchange does not occur as expected there may be a misconfiguration on the local or remote port.

Severity

Notice

Message Text

Blocking traffic on port `%port%`

Message Parameters

Name	Type
port	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.UnblkPort

Description

MACsec control port is up/unblocked. If another protocol is registered on this port, the port state of that protocol will be used, else MACsec sets the port to the default forwarding state. MACsec will unblock all traffic on the port, however other registered protocols may affect the forwarding state. If no other protocol is registered, MACsec sets the port to the default forwarding state.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Unblocking traffic on port `%port%`

Message Parameters

Name	Type
port	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.RxEvent

Description

Track received events including port events, VLAN events and PDU's received from from peer.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Received `%event%` event for port `%slotport%` with EventType [`%eventType%`]

Message Parameters

Name	Type
event	String
slotport	SlotPort
eventType	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PortMACsecUnSuprt

Description

This condition occurs when MAC Security (MACsec) is enabled on a port that does not support encryption. This may occur when an encryption-capable VIM is replaced with a non-encryption VIM

Remedy

If MACsec is desired then install a VIM that is capable of encryption, otherwise disable MACsec on the port.

Severity

Error

Message Text

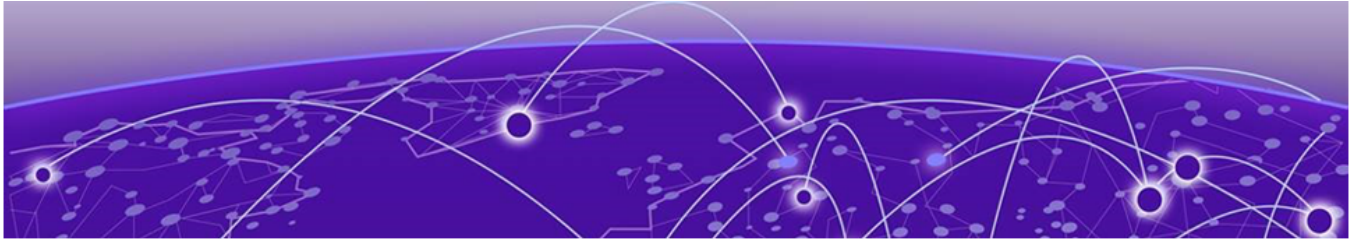
MACsec is enabled on port `%slotport%` but port hardware does not support encryption

Message Parameters

Name	Type
slotport	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



MACsec.MKA Messages

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MACsec.MKA.CreatMKAPrtcpntFail on page 3091

MACsec.MKA.DupMAC

Description

This message indicates abnormal MKA operation as reported by the MAC Security Key Agreement Entity (KaY). MKA cannot continue because local and remote ports have identical MAC addresses.

Remedy

Each system should have a unique MAC address programmed at the factory. Execute "show system" command and verify "system MAC" matches the MAC address printed on the system's label. Verify that the remote device does not have the same MAC address. Also, all of a system's ports use the same system MAC address. Verify that two ports on the same system are not interconnected.

Severity

Error

Message Text

Misconfiguration detected, cannot elect MKA Key Server on port `%slotPort%`, local port and peer have same MAC (`%mac%`).

Message Parameters

Name	Type
slotPort	SlotPort
mac	MAC

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.DupSCI

Description

A duplicate secure channel identifier is reported by the MAC Security Key Agreement Entity (KaY). The most likely scenario is that the remote peer was initialized and chose a new MI. MKA protocol will recover and accept the new MI. If message persists there may be an attacker trying to spoof remote peer's SCI (Secure Channel Identifier).

Remedy

This condition should be monitored and countermeasures should be made if spoofing is suspected. If the condition persists for more than a minute, verify that the remote system is stable (e.g. not in a reboot loop) and the remote port is stable (i.e. the remote port is not being periodically reinitialized). If the remote is stable, then verify no unauthorized devices are attached to the LAN.

Severity

Notice

Message Text

On port `%slotPort%`, a duplicate Secure Channel Identifier (SCI) was detected, this may be an active attacker or the peer changed member identifier(MI).

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.PortOperUnSuprt

Description

This system does not support the non-default cipher suite that the adjacent device has distributed. The cipher suite selected by the key server must be supported on both the local and peer devices for correct operation.

Remedy

Investigation should be done to understand and correct the discrepancy with the peer. All MACsec-capable Extreme Networks systems support at a minimum, the default MACsec cipher suite(0x0080C20001000001). A possible solution is to raise the local peer's MKA actorPriority (configure macsec mka actor-priority <actor_priority> ports <port_list>) so that it is elected key server and can therefore choose a cipher suite that is supported by this system. If the remote system is not an Extreme Networks product, check that products user manual to determine if the mutually compatible MACsec cipher suite is supported.

Severity

Warning

Message Text

KaY: Rx MKPDU DIST-SAK: On port `%slotPort%`, the non-default Cipher Suite (`%cipherSuite%`) distributed by the peer MKA Key Server is not supported.

Message Parameters

Name	Type
slotPort	SlotPort
cipherSuite	xInt64

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.PortSAKDistUnExpct

Description

The Key Server must not generate new SAKs faster than once every MKA Life Time (IEEE802.1X-2010 Clause 9.8). A new SAK was requested faster than this rate, so the request was ignored.

Remedy

This condition is most likely caused by a peer sending sequential MKPDUs with a lowest acceptable packet number (LPN) that exceeds the Key Server's PendingPNExhaustion threshold (0xC0000000 packets). The problem should resolve itself. If this event is logged more than a few times per minute, contact technical support with output from "show tech".

Severity

Notice

Message Text

On port `%slotPort%`, MKA Life Time (`%lifetime%` seconds) has not elapsed since previous SAK was distributed (`%secs%` seconds).

Message Parameters

Name	Type
slotPort	SlotPort
lifetime	uInt32
secs	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.PortStateChg

Description

Link state of common port used by MKA/MACsec has changed. MKA participation is halted when link goes down, resumed when link comes up.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Common Port link changed to `%linkState%` on port `%slotPort%`.

Message Parameters

Name	Type
linkState	String
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.PortCnctChg

Description

Indicates connectivity provided by the controlled port. One of: 'PENDING' - Prevent connectivity by disabling the controlled port. 'UNAUTHENTICATED' - Provide unsecured connectivity, enabling the controlled port. 'AUTHENTICATED' - Provide unsecured connectivity but with authentication, enabling the controlled port. 'SECURE' - Provide secured connectivity, using Secure Association Keys(SAKs) provided by the MAC Security Key Agreement Entity(KaY) and enabling the controlled port when those keys are installed and in use.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Controlled Port connectivity changed to `%connect%` on port `%slotPort%`.

Message Parameters

Name	Type
connect	String
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.PortCKNMisMatch

Description

This message can be seen if local and remote pre-shared keys(PSKs) do not match.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

On port `%slotPort%` in a received MKPDU, the Secure Connectivity Association Key Name(CKN) is not included in local Secure Connectivity Association(CA). A possible CKN mismatch.

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.PortCAKMisMatch

Description

This message can be seen if local and remote pre-shared keys(PSKs) do not match.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

On port `%slotPort%` in a received PDU, the computed Integrity Check Value(ICV) is not equal to the received ICV. A possible CAK mismatch.

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.PortProtoEvent

Description

This is a normal operation MKA message.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Generic MKA protocol event on port `%slotPort%`: `%msg%`.

Message Parameters

Name	Type
slotPort	SlotPort
msg	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.PortDebugEvent

Description

A condition has been detected that may interest a developer.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Generic MKA debug condition on port `%slotPort%`: `%msg%`.

Message Parameters

Name	Type
slotPort	SlotPort
msg	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.PortDistSAK

Description

This is a normal operation MKA message.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

KaY: On port `%slotPort%`, a distributed Secure Association Key (SAK) was encoded or decoded in an MKPDU: `%msg%`.

Message Parameters

Name	Type
slotPort	SlotPort
msg	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocRxSAFail

Description

Could not allocate memory for KaY's Receive Secure Association (SA) object, which is required for MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create Receive SA on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocRxSCFail

Description

Could not allocate memory for KaY's Receive Secure Channel (SC) object, which is required for MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create Receive SC on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocMKAPeerFail

Description

Could not allocate memory for MACsec Key Agreement (MKA) peer object, which is required for MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create MKA Peer

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocSAKFail

Description

Could not allocate memory for Secure Assocation Key (SAK) object, which is required for MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create SAK on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocMKPDUFail

Description

Could not allocate memory for MACsec PDU (MKPDU) buffer, which is required for MKA and MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create MKPDU buffer on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocTxSAFail

Description

Could not allocate memory for KaY's Transmit Secure Association (SA) object, which is required for MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create Transmit SA on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocTxSCFail

Description

Could not allocate memory for KaY's Transmit Secure Channel (SC) object, which is required for MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create Transmit SC on slot `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocKaYFail

Description

Could not allocate memory for Key Agreement Entity (KaY) object, which is required for MKA and MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create KaY object on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocMKAPrtcpntFail

Description

Could not allocate memory for MKA participant object, which is required for MKA and MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create MKA participant object on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocCPLKIFail

Description

Could not allocate memory for Control Port (CP) state machine's Latest Key Identifier (LKI) object, which is required for MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create CP LKI object on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocCPFail

Description

Could not allocate memory for Control Port (CP) state machine object, which is required for MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create CP object on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocKDFFail

Description

Could not allocate memory for Key Derivation Function (KDF) object, which is required for MKA and MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create KDF object

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocCKNFail

Description

Could not allocate memory for CAK Name (CKN) object, which is required for MKA and MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create CKN object

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.AllocSecYDrvrFail

Description

Could not allocate memory for Secure Entity (SecY) driver object, which is required for MACsec.

Remedy

This is an unexpected internal condition needing technical assistance. Check if sufficient memory is available and memory is not occupied by other processes: "show memory" "show memory process macsec" If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

Failed to create SecY driver object on port `%slotPort%`

Message Parameters

Name	Type
slotPort	SlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.CryptHashFail

Description

Call to a hashing function in the system's cryptographic library failed. Neither MKA or MACsec can operate in this failure.

Remedy

This is a rare condition. Contact technical support with output from "show tech-support" if the problem persists.

Severity

Error

Message Text

Cryptographic hashing algorithm failed: `%algorithm%`

Message Parameters

Name	Type
algorithm	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.MKA.CreatMKAPrtcpntFail

Description

Could not create MKA participant due to unexpected error. Neither MKA nor MACsec are operational on this port.

Remedy

This is an unexpected internal condition needing technical assistance. If the problem persists, contact technical support with the following information: "show tech-support"

Severity

Critical

Message Text

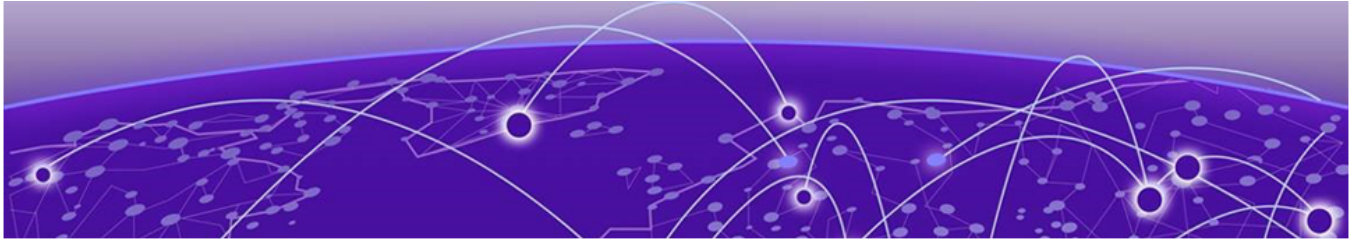
Failed to create MKA participant object on port `%slotPort%`: `%errormsg%`

Message Parameters

Name	Type
slotPort	SlotPort
errormsg	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



MACsec.PDU Messages

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MACsec.PDU.ParmSetDistSAKHdr on page 3101
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MACsec.PDU.PortTxMKPDU

Description

This message is logged each time an MKPDU packet is transmitted on a port. During normal MKA operation an MKPDU will be transmitted once every 2.0 seconds.

Remedy

No action required - Debug message only. This message represents normal behavior, is for debugging purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Transmitting a `%len%` byte MKPDU on port `%slotPort%`

Message Parameters

Name	Type
slotPort	egressSlotPort
addr	Buf-ptr
len	Buf-len

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PDU.PortRxMKPDU

Description

This message is logged every time an MKPDU packet is received on a port. During normal MKA operation an MKPDU will be received once every 2.0 seconds.

Remedy

No action required - Debug message only. This message represents normal behavior, is for debugging purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Data

Message Text

Received a `%len%` byte MKPDU on port `%slotPort%`

Message Parameters

Name	Type
slotPort	ingressSlotPort
addr	Buf-ptr
len	Buf-len

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator

MACsec.PDU.ParseRxMKPDUFail

Description

Received MKPDU was discarded because it contained an unexpected or incorrect parameter. The MKA protocol tolerates occasional loss of MKPDUs by not terminating a connection until MKA_LIFE_TIME (6 seconds) has elapsed between valid MKPDUs.

Remedy

This condition is most often caused by a network peer re-initializing their MKA process, but can also be caused a peer sending a faulty MKPDU. If the condition persists and connectivity cannot be established or is lost, contact technical support with the following information: show macsec ports all show macsec ports <affected-port> detail show configuration macsec configure log filter DefaultFilter add events MACsec.PDU severity debug-data

Severity

Notice

Message Text

Failed to parse MKPDU received on port `%slotPort%`: `%errormsg%`

Message Parameters

Name	Type
slotPort	egressSlotPort
errormsg	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PDU.EncdTxMKPDUFail

Description

Unable to create MKPDU for transmission to network peer. If a valid MKPDU is not sent at least once every MKA_LIFE_TIME (6 seconds), the peer will terminate the secure connection.

Remedy

This is an unexpected internal condition needing technical assistance. If the problem persists contact technical support with the following information: show macsec ports all show macsec ports <affected-port> detail show configuration macsec configure log filter DefaultFilter add events MACsec.PDU severity debug-data

Severity

Warning

Message Text

Failed to encode MKPDU for transmit on port `%slotPort%`: `%errormsg%`

Message Parameters

Name	Type
slotPort	egressSlotPort
errormsg	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PDU.ParmSetBasic

Description

This message displays the contents of a transmitted or received MKPDU's Basic Parameter Set Each MKA PDUs (MKPDU) contains a sequence of "parameter sets": Basic, Live Peer List, Potential Peer List, SAK Use, Distributed SAK. The Basic Parameter Set is mandatk/ory. MKA Version: 1: IEEE802.1X-2010 Key Server Priority: 0..255, lower value is higher priority Key Server: set if and only if the participant has not decided that another participant is or will be the Key Server MACsec Desired: set if participant desires the use of MACsec to protect frames MACsec Capability: 0: MACsec not implemented 1: Integrity without confidentiality 2: Integrity, confidentiality with offset 0 3: Integrity, confidentiality with offset 0, 30 or 50 SCI: Secure Channel Identifier MI: Actor's Message Identifier MN: Actor's Message Number Algorithm Agility: 0080C201: IEEE Std 802.1X-2009 CKN: CAK Name Further details on MKA parameter sets and parameters can be found in Clause 11.11 EAPOL-MKA of IEEE Std 802.1X-2010.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%direction%` MKPDU on port `%slotPort%` [Basic] MKA Version:`%mkaVersion%` Priority:`%keyServerPriority%` Key Server:`%keyServer%` Desired:`%macsecDesired%` Capability:`%macsecCap%` \nSCI:`%sci%` MI:`%memberId%` MN:`%msgNum%` Agility:`%algorithmAgility%` CKN:`%ckn%`

Message Parameters

Name	Type
slotPort	SlotPort
direction	String
mkaVersion	uInt
keyServerPriority	uInt
keyServer	uInt
macsecDesired	uInt
macsecCap	uInt
sci	HexNosByteArray
memberId	HexNosByteArray
msgNum	uInt
algorithmAgility	HexNosByteArray
ckn	HexNosByteArray

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PDU.ParmSetLivePeer

Description

This message displays the contents of a transmitted or received MKPDU's Live Peer Parameter Set Each MKA PDUs (MKPDU) contains a sequence of "parameter sets": Basic, Live Peer List, Potential Peer List, SAK Use, Distributed SAK. The Live Peer Parameter Set is present if the listed peer has included the sender's MI and MN in a recent MKPDU. MI: Live Peer's Member Identifer MN: Live Peer's Message Number Further details on MKA parameter sets and parameters can be found in Clause 11.11 EAPOL-MKA of IEEE Std 802.1X-2010.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%direction%` MKPDU on port `%slotPort%` [Live Peer List] MI:`%peerMI%` MN:`%peerMN%`

Message Parameters

Name	Type
slotPort	SlotPort
direction	String
peerMI	HexNosByteArray
peerMN	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PDU.ParmSetPotentPeer

Description

This message displays the contents of a transmitted or received MKPDU's Potential Peer Parameter Set Each MKA PDUs (MKPDU) contains a sequence of "parameter sets": Basic, Live Peer List, Potential Peer List, SAK Use, Distributed SAK. The Potential Peer Parameter Set is present if the listed peer is live but has not included the sender's MI and MN in a recent MKPDU. MI: Potential Peer's Member Identifer MN: Potential Peer's Message Number Further details on MKA parameter sets and parameters can be found in Clause 11.11 EAPOL-MKA of IEEE Std 802.1X-2010.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%direction%` MKPDU on port `%slotPort%` [Potential Peer List] MI:`%peerMI%` MN:`%peerMN%`

Message Parameters

Name	Type
slotPort	SlotPort
direction	String
peerMI	HexNosByteArray
peerMN	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PDU.ParmSetSAKUseHdr

Description

This message displays the contents of a transmitted or received MKPDU's SAK Use Parameter Set Header Each MKA PDUs (MKPDU) contains a sequence of "parameter sets": Basic, Live Peer List, Potential Peer List, SAK Use, Distributed SAK. The SAK Use Parameter Set Header is present after the Key Server distributes the first SAK or elects to not use MACsec. LAN: Latest Key AN LTX: Latest Key tx LRX: Latest Key rx OAN: Old Key AN OTX: Old Key tx ORX: Old Key rx Plain Tx: Controlled port currently transmitting plain text Plain Rx: Controlled port currently receiving plain text Delay Protect: optional protection against delayed packets (not the same as replay protection) Body Length: 0=Key Server decided to not use MACsec (i.e., MKA without MACsec) >0=Key Server decided to use MACsec. Key info will be in ParmSetSAKUseBdy Further details on MKA parameter sets and parameters can be found in Clause 11.11 EAPOL-MKA of IEEE Std 802.1X-2010.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%direction%` MKPDU on port `%slotPort%` [SAK Use] LAN:`%lan%` LTX:`%ltx%` LRX:`%lrx%` OAN:`%oan%` OTX:`%otx%` ORX:`%orx%` Plain Tx:`%plainTx%` Plain Rx:`%plainRx%` Delay Protect:`%delayProtect%` Body Length:`%bodyLen%`

Message Parameters

Name	Type
slotPort	SlotPort
direction	String
lan	uInt
ltx	uInt
lrx	uInt
oan	uInt
otx	uInt
orx	uInt
plainTx	uInt
plainRx	uInt
delayProtect	uInt
bodyLen	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PDU.ParmSetSAKUseBdy

Description

This message displays the contents of a transmitted or received MKPDU's SAK Use Parameter Set Body Each MKA PDUs (MKPDU) contains a sequence of "parameter sets": Basic, Live Peer List, Potential Peer List, SAK Use, Distributed SAK. The SAK Use Parameter Set Body is present after the Key Server elects to use MACsec and distributes the first SAK. LKSMI: Latest Key Server Member Id LKN: Latest Key Number LLPN: Latest Lowest Acceptable Packet Number OKSMI: Old Key Server Member Id OKN: Old Key Number OLPN: Old Lowest Acceptable Packet Number Further details on MKA parameter sets and parameters can be found in Clause 11.11 EAPOL-MKA of IEEE Std 802.1X-2010.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%direction%` MKPDU on port `%slotPort%` [SAK Use] LKSMI:`%lsrv_mi%` LKN:`%lkn%` LLPN:`%llpn%` OKSMI:`%osrv_mi%` OKN:`%okn%` OLPN:`%olpn%`

Message Parameters

Name	Type
slotPort	SlotPort
direction	String
lsrv_mi	HexNosByteArray
lkn	uInt
llpn	uInt
osrv_mi	HexNosByteArray
okn	uInt
olpn	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PDU.ParmSetDistSAKHdr

Description

This message displays the contents of a transmitted or received MKPDU's Distributed SAK Parameter Set Header Each MKA PDUs (MKPDU) contains a sequence of "parameter sets": Basic, Live Peer List, Potential Peer List, SAK Use, Distributed SAK. The Distributed SAK Parameter Set Header is sent by the Key Server immediately after it generates a new SAK or decides to not use MACsec. AN (Association Number): range 0 to 3 Confidentiaty Offset: 0=No Confidentaility 1=Confidentiality w/Offset 0 2=Confidentiality w/Offset 30 3=Confidentiality w/Offset 50 Body Length: 0=Key Server decided to not use MACsec (i.e., MKA without MACsec) >0=Key Server decided to use MACsec. Key info will be in ParmSetDistSAKBdy. Further details on MKA parameter sets and parameters can be found in Clause 11.11 EAPOL-MKA of IEEE Std 802.1X-2010.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%direction%` MKPDU on port `%slotPort%` [Distributed SAK] AN:`%an%` Confidentiality Offset:`%confOffset%` Body Length:`%bodyLen%`

Message Parameters

Name	Type
slotPort	SlotPort
direction	String
an	uInt
confOffset	uInt
bodyLen	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

MACsec.PDU.ParmSetDistSAKBdy

Description

This message displays the contents of a transmitted or received MKPDU's Distributed SAK Parameter Set Body Each MKA PDUs (MKPDU) contains a sequence of "parameter sets": Basic, Live Peer List, Potential Peer List, SAK Use, Distributed SAK. The Distributed SAK Parameter Set Body is only sent by the Key Server immediately after it generates a new SAK. Key Number: Assigned by Key Server (sequentially, beginning with 1) CipherSuite: optional 8-octet cipher suite reference number (if not populated, cipher suite defaults to GCM-AES-128) Wrapped SAK: AES Key Wrap of Secure Association Key Further details on MKA parameter sets and parameters can be found in Clause 11.11 EAPOL-MKA of IEEE Std 802.1X-2010.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

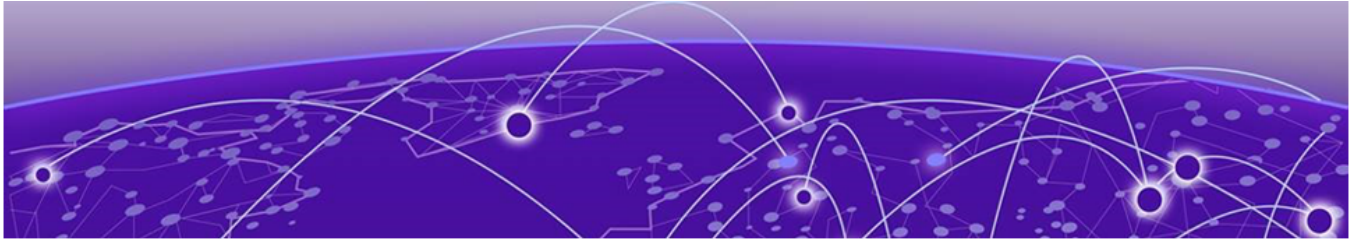
`%direction%` MKPDU on port `%slotPort%` [Distributed SAK] Key Number:`%keyNum%` CipherSuite:`%csId%` Wrapped SAK:`%aesWrap%`

Message Parameters

Name	Type
slotPort	SlotPort
direction	String
keyNum	uInt
csId	HexNosByteArray
aesWrap	HexNosByteArray

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



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MPLS.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.Entry

Description

function entry

Remedy

none

Severity

Debug-Verbose

Message Text

```
%function%
```

Message Parameters

Name	Type
function	String

MPLS.Exit

Description

Function exit

Remedy

none

Severity

Debug-Verbose

Message Text

```
%function%
```

Message Parameters

Name	Type
function	String

MPLS.MemExhausted

Description

The system tried to allocate memory but failed in doing so. This condition is mainly due to system starvation or an extremely low memory condition.

Remedy

A possible remedy is to use "show memory" and "show log" commands to monitor the memory statuses of different processes. Depending on the results of these commands, the system configuration may need to be changed or memory may need to be freed by ending processes which are currently not needed.

Severity

Critical

Message Text

Failed to obtain `%size%` bytes of memory for `%message%`

Message Parameters

Name	Type
message	String
size	uInt32

MPLS.InternalDev

Description

MPLS Internal development log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt

Name	Type
sub_code	sInt
str	String

MPLS.InternalAudit

Description

MPLS Internal development audit log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.InternalExcept

Description

MPLS Internal development exception log messages

Remedy

Development Informational Only

Severity

Notice

Message Text

```
%process_type%-%sub_id% (%sub_code%) %str%
```

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.InternalProb

Description

MPLS Internal development problem log messages

Remedy

Development Informational Only

Severity

Warning

Message Text

```
%process_type%-%sub_id% (%sub_code%) %str%
```

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.dispatch

Description

Could not add the given socket to the dispatcher.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Failed to add socket `%socket%-%type%` with VrID `%vrid%` to dispatcher.

Message Parameters

Name	Type
vrid	sInt
socket	sInt
type	uInt

MPLS.EnableState

Description

Event to report the enabling/enabled/disabling/disabled state of internal MPLS subcomponents.

Remedy

None - purely documentary

Severity

Notice

Message Text

`%status%`

Message Parameters

Name	Type
status	Printf

MPLS.HalGetILmComplete

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.ILmGetObj

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.ILmSetObj

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.NhlfeSetObj

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.NhlfeGetObj

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.ILmUpdateObj

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.ILmGetDispatchObj

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.ILmAllocDispatchObj

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.ILmChkStatsDispatch

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.MplsFixedMem

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.Scheduler

Description

Internal logging data about the MPLS scheduler

Remedy

N/A

Severity

Info

Message Text

```
%str%
```

Message Parameters

Name	Type
str	Printf

MPLS.MainFSMDebug

Description

Debug logs related to the MPLS main Finite State Machine.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.MainFSMError

Description

Errors related to the MPLS main Finite State Machine.

Remedy

Disable mpls or restart the mpls process.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.MainFSMInfo

Description

Informational logs for notifications from the MPLS main Finite State Machine.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.SMSDebugSummary

Description

Debug logs related to MPLS SMS.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.LSPMgrToRtMgr

Description

LSP Manager debug logs for information sent to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.LSPMgrToVPNMgr

Description

LSP Manager debug logs for information sent to VPN Manager.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.LSPMgrFromDPMgr

Description

LSP Manager debug logs for information received from Dataplane Manager.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.LSPMgrDebugVerbose

Description

LSP Manager general debug verbose logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.MIMDebugSummary

Description

Debug Summary logs related to MPLS Interface Manager.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.MPLSToOSPFDebug

Description

Debug Logs related to MPLS sending updates to OSPF regarding changes to administrative states or metric values.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.LSPMgrDebugData

Description

LSP Manager general debug data logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.LSPMgrDebugSummary

Description

LSP Manager general debug summary logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.LSPMgrEnterFn

Description

LSP Manager debug log showing execution entering a function.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

Enter `%function%`

Message Parameters

Name	Type
function	String

MPLS.LSPMgrTCBEvent

Description

LSP Manager debug logs for Tunnel Control Blocks FSM Events

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

TCB: `%tcbPtr%`, tIndex: `%tIndex%`, Event=`%event%`, CurState=`%curState%`

Message Parameters

Name	Type
tcbPtr	Ptr
tIndex	uInt32
event	String
curState	String

MPLS.LSPMgrRCBEvent

Description

LSP Manager debug logs for Resource Control Blocks FSM Events

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

RCB: `%rcbPtr%`, rIndex: `%rIndex%`, Event=`%event%`, CurState=`%curState%`

Message Parameters

Name	Type
rcbPtr	Ptr
rIndex	uInt32
event	String
curState	String

MPLS.LSPMgrHCBEvent

Description

LSP Manager debug logs for Hop Control Blocks FSM Events

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

HCB: `%hcbPtr%`, hIndex: `%hIndex%`, Event=`%event%`, CurState=`%curState%`

Message Parameters

Name	Type
hcbPtr	Ptr
hIndex	uInt32
event	String
curState	String

MPLS.LSPMgrPCBEvent

Description

LSP Manager debug logs for Path Control Blocks FSM Events

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

PCB: `%pcbPtr%`, hopListIndex: `%hlIndex%`, Event=`%event%`, CurState=`%curState%`

Message Parameters

Name	Type
pcbPtr	Ptr
hlIndex	uInt32
event	String
curState	String

MPLS.LSPMgrPCBAction

Description

LSP Manager debug logs for Path Control Blocks FSM Actions

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

PCB: `%pcbPtr%`, hopListIndex: `%hlIndex%`, Action=`%action%`, CurState=`%state%`

Message Parameters

Name	Type
pcbPtr	Ptr
hlIndex	uInt32
action	String
state	String

MPLS.LSPMgrHCBAction

Description

LSP Manager debug logs for Hop Control Blocks FSM Actions

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

HCB: `%hcbPtr%`, hIndex: `%hIndex%`, Actiont=`%action%`, CurState=`%curState%`

Message Parameters

Name	Type
hcbPtr	Ptr
hIndex	uInt32
action	String
curState	String

MPLS.LSPMgrTCBAction

Description

LSP Manager debug logs for Tunnel Control Blocks FSM Actions

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

TCB: `%tcbPtr%`, tIndex: `%tIndex%`, Action=`%action%`, CurState=`%curState%`

Message Parameters

Name	Type
tcbPtr	Ptr
tIndex	uInt32
action	String
curState	String

MPLS.LSPMgrRCBAction

Description

LSP Manager debug logs for Resource Control Blocks FSM Actions

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

RCB: `%rcbPtr%`, rIndex: `%rIndex%`, Action=`%action%`, CurState=`%curState%`

Message Parameters

Name	Type
rcbPtr	Ptr
rIndex	uInt32
action	String
curState	String

MPLS.QcteSwitchFlush

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.QcteMemLockErr

Description

While attempting to display the CSPF database, a necessary mutex was either not acquired, or not released. If this problem occurs, the CSPF database may not be displayed completely.

Remedy

There is no workaround for this problem.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.QcteMemLock

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.QcteDbTrace

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.QcteCacheTrc

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.QcteMiQ

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or

completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.QcteRtrRec

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.QcteNetRec

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.QcteLinkRec

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.QcteGetDispatchObj

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.QcteAllocDispatchObj

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.SmsSendFromXdtQueue

Description

Queue status information for SMS messages sent from XDT to DCL.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.SmsSendToXdtQueue

Description

Queue status information for SMS messages sent from DCL to XDT.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.MplsFixedMemSummary

Description

Summary information for MPLS Fixed Memory Operations

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.LspStaticCfg

Description

Static LSP Manager debug logs for config information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.LspStaticSM

Description

Static LSP Manager debug logs for Static LSP State Machine.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.LspStaticVerbose

Description

Static LSP Manager generic verbose debug logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.MplsServerVerbose

Description

MPLS Server generic verbose debug logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.MplsServerDebug

Description

MPLS Server debug logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.FdbClientDebug

Description

MPLS FDB Client Callback debug logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.FdbClientInfo

Description

MPLS Client Callback Error logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.NhopRslvDebug

Description

MPLS Nhop Resolve Debug logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.NhopRslvDebugVerbose

Description

MPLS Nhop Resolve Debug Verbose logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.ProtoStateTransBlk

Description

When MPLS initialized, an incompatibility prevented MPLS from becoming operational. For example, an incompatible I/O card could be inserted or the wrong stacking protocol is in-use. While the MPLS Administrative state will become Enabled, the MPLS Operational state will remain Disabled.

Remedy

Use the "show mpls" command to determine the incompatibility. Once the problem with incompatibility is addressed, issue "disable mpls", then "enable mpls" for MPLS to become operational.

Severity

Error

Message Text

When MPLS initialized, an incompatibility prevented MPLS from becoming operational. The \"show mpls\" command can be used for additional information.

MPLS.ChgStaticIngrLSPState

Description

This event occurs when a statically configured ingress MPLS LSP changes state. The valid states for a static MPLS LSP are "Up" and "Down". This event also contains relevant information about the LSP at the time of the state change, such as the MPLS label.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

LSP \"`%lspName%`\" to `%destIpAddr%` changed state from `%prevState%` to `%curState%`. EgressLabel=`%egressLabel%`, NextHopIf=`%nexthopIf%`, NextHopAddr=`%nexthopAddr%`

Message Parameters

Name	Type
lspName	String
destIpAddr	IP
prevState	String
curState	String
egressLabel	xInt32
nexthopIf	String
nexthopAddr	IP

MPLS.ChgStaticTrnstLSPState

Description

This event occurs when a statically configured transit MPLS LSP changes state. The valid states for a static MPLS LSP are "Up" and "Down". This event also contains relevant information about the LSP at the time of the state change, such as the MPLS labels.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

LSP \"%lspName%\" to %destIpAddr% changed state from %prevState% to %curState%. IngressLabel=%ingressLabel%, IngressIf=%ingressIf%, EgressLabel=%egressLabel%, NextHopIf=%nexthopIf%, NextHopAddr=%nexthopAddr%

Message Parameters

Name	Type
lspName	String
destIpAddr	IP
prevState	String
curState	String
ingressLabel	xInt32
ingressIf	String
egressLabel	xInt32
nexthopIf	String
nexthopAddr	IP

MPLS.ChgStaticEgrLSPState

Description

This event occurs when a statically configured egress MPLS LSP changes state. The valid states for a static MPLS LSP are "Up" and "Down". This event also contains relevant information about the LSP at the time of the state change, such as the MPLS label.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

LSP \"%lspName%\" to %destIpAddr% changed state from %prevState% to %curState%. IngressLabel=%ingressLabel%, IngressIf=%ingressIf%

Message Parameters

Name	Type
lspName	String
destIpAddr	IP
prevState	String
curState	String
ingressLabel	xInt32
ingressIf	String

MPLS.ChgIfState

Description

This event occurs when an MPLS interface changes state. The valid states for an MPLS interface are "Up" and "Down".

Remedy

No action required - Informational message only.

Severity

Info

Message Text

MPLS interface \"`%ifName%`\" with IP address `%ifAddr%` changed state from `%prevState%` to `%curState%`.

Message Parameters

Name	Type
ifName	String
ifAddr	IP
prevState	String
curState	String

MPLS.ChgProtoState

Description

This event occurs when the MPLS protocol changes state. The valid states for the MPLS protocol are "Enabled", "Enabling", "Disabled", and "Disabling".

Remedy

No action required - Informational message only.

Severity

Info

Message Text

MPLS protocol changed state from `%prevState%` to `%curState%`.

Message Parameters

Name	Type
prevState	String
curState	String

MPLS.CfgLblMgrFail

Description

When MPLS label ranges are changed, the label space manager must be uninitialized and then initialized (specified by the action parameter) with the new ranges. If a problem occurs during either of these actions, the label database can become corrupted. The rc, or return code, will provide technical support with more detail on the specific cause of the failure.

Remedy

Reboot the system or restart the MPLS process. If the problem persists, contact technical support with the following information: the actual event message and the output from the following commands: "show mpls label usage", "debug mpls show tech label-space"

Severity

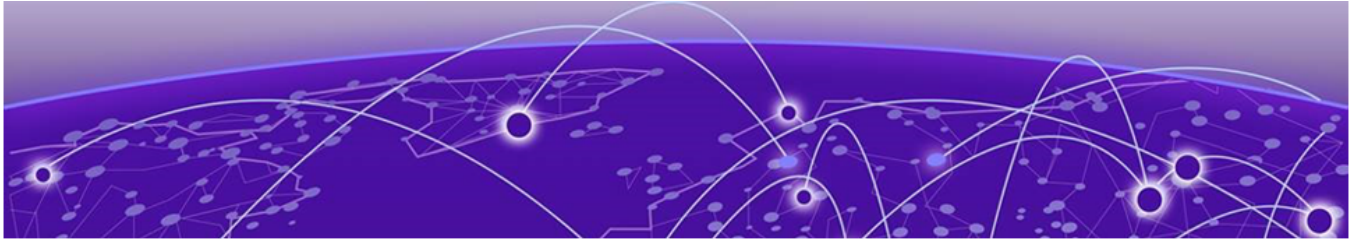
Error

Message Text

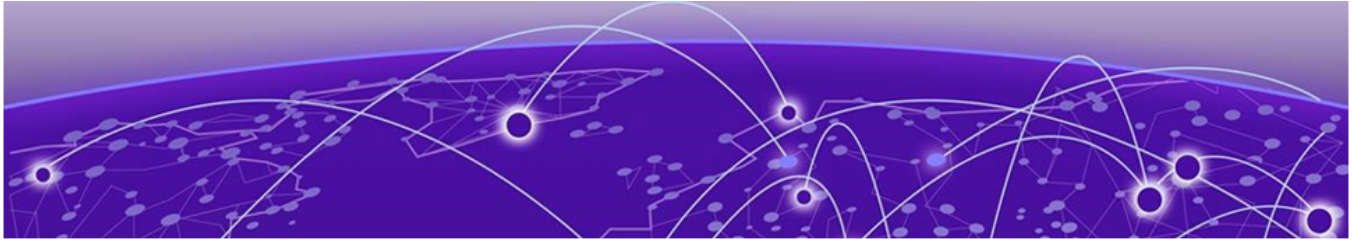
Configuration of label manager failed while trying to `%action%` label spaces (rc=`%rc%`).

Message Parameters

Name	Type
action	String
rc	sInt32



MPLS.BandwdthMgr Messages



MPLS.BFD Messages

MPLS.BFD.DebugSummary on page 3153
MPLS.BFD.DebugVerbose on page 3154
MPLS.BFD.DebugData on page 3154

MPLS.BFD.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.BFD.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.BFD.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

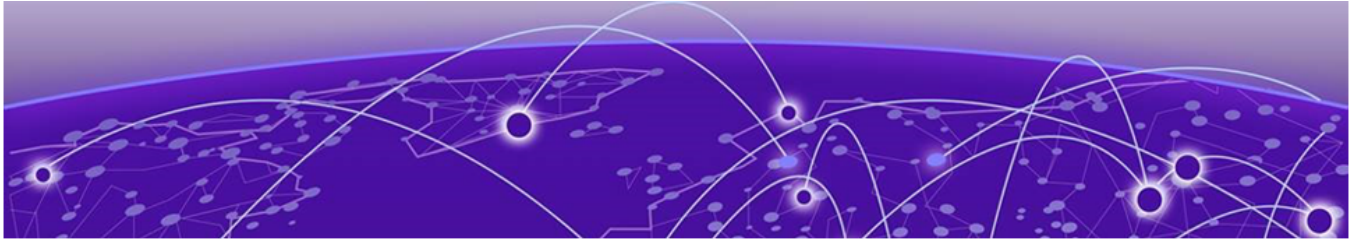
Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



MPLS.CSPF Messages

MPLS.CSPF.InternalDev on page 3156
MPLS.CSPF.RtrAddrUpdtExceed on page 3157
MPLS.CSPF.AdjRtrUpdtExceed on page 3158
MPLS.CSPF.OSPFLibDebug on page 3158
MPLS.CSPF.LinkUpdtLinkTypeUnk on page 3159
MPLS.CSPF.LinkUpdtAddrExceed on page 3160
MPLS.CSPF.OSPFLibInv on page 3160
MPLS.CSPF.QueueDebug on page 3161
MPLS.CSPF.OSPFLibCommand on page 3161
MPLS.CSPF.InternalAudit on page 3162
MPLS.CSPF.InternalExcept on page 3163
MPLS.CSPF.InternalProb on page 3163
MPLS.CSPF.MsgRtrUpdate on page 3164
MPLS.CSPF.MsgRtrAddrUpdate on page 3165
MPLS.CSPF.MsgNtwkUpdate on page 3165
MPLS.CSPF.MsgLinkUpdate on page 3166
MPLS.CSPF.MsgLinkUpdate2 on page 3167
MPLS.CSPF.MsgRtrAddrUpdateAddr on page 3168
MPLS.CSPF.MsgNtwkUpdateAddr on page 3168
MPLS.CSPF.MsgLinkUpdateLocalAddr on page 3169
MPLS.CSPF.MsgLinkUpdateRemoteAddr on page 3169

MPLS.CSPF.InternalDev

Description

MPLS CSPF Internal development log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.CSPF.RtrAddrUpdtExceed

Description

The number of router addresses contained within the OSPF LSA sent to CSPF exceeded the internal limitation. Only the first addresses up to and including the limiting number were passed to CSPF, all others were discarded.

Remedy

Configure the network such that all routers within the OSPF area have fewer than the maximum number of allowed addresses configured on them as announced in their OSPF LSAs.

Severity

Error

Message Text

The number of router addresses (`%numRtrAddrs%`) contained within the Router Address Update LSA from `%rtrId%` exceeds the maximum (`%maxNumRtrAddrs%`)

Message Parameters

Name	Type
numRtrAddrs	uInt32
maxNumRtrAddrs	uInt32
rtrId	IP

MPLS.CSPF.AdjRtrUpdtExceed

Description

The number of adjacent routers contained within the OSPF LSA sent to CSPF exceeded the internal limitation. Only the first routers up to and including the limiting number were passed to CSPF, all others were discarded.

Remedy

Configure the network such that all routers within the OSPF area have fewer than the maximum number of allowed neighbors configured on them as announced in their OSPF LSAs.

Severity

Error

Message Text

The number of adjacent routers (`%numAdjRtr%`) contained within the Network Update LSA from `%rtrId%` exceeds the maximum (`%maxNumAdjRtr%`)

Message Parameters

Name	Type
numAdjRtr	uInt32
maxNumAdjRtr	uInt32
rtrId	IP

MPLS.CSPF.OSPFLibDebug

Description

Debugging event to check on the messages being received from the OSPF client library (and thus from OSPF) destined for CSPF.

Remedy

n/a

Severity

Debug-Data

Message Text

Received a code `%opcode%` message from the OSPF client library (`%length%` bytes)

Message Parameters

Name	Type
opcode	uInt32
length	uInt32

MPLS.CSPF.LinkUpdtLinkTypeUnk

Description

A received Link Update LSA from the router indicated has a link type that we could not process. Defaulting the type to multipoint.

Remedy

Correct the LSA link-type advertisement from the offending router.

Severity

Error

Message Text

The received link type (`%linkType%`) from `%rtrId%` is illegal, defaulting to Multipoint type

Message Parameters

Name	Type
linkType	uInt32
rtrId	IP

MPLS.CSPF.LinkUpdtAddrExceed

Description

The number of local or remote addresses contained within the OSPF LSA sent to CSPF exceeded the internal limitation. Only the first local or remote addresses up to and including the limiting number were passed to CSPF, all others were discarded.

Remedy

Configure the network such that the offending router has fewer local or remote addresses than the stated maximum.

Severity

Error

Message Text

The number of `%addrType%` addresses (`%numAddr%`) contained within the Link Update LSA from `%rtrId%` exceeds the maximum (`%maxNumAddr%`)

Message Parameters

Name	Type
numAddr	uInt32
maxNumAddr	uInt32
rtrId	IP
addrType	String

MPLS.CSPF.OSPFLibInv

Description

Debugging event to check on the messages being received from the OSPF client library (and thus from OSPF) destined for CSPF.

Remedy

n/a

Severity

Info

Message Text

`%dir%` an an invalid code `%opcode%` message from the OSPF client library (`%length%` bytes)

Message Parameters

Name	Type
dir	String
opcode	uInt32
length	uInt32

MPLS.CSPF.QueueDebug

Description

Internal debugging

Remedy

n/a

Severity

Debug-Verbose

Message Text

CSPF queue event: `%msg%`

Message Parameters

Name	Type
msg	Printf

MPLS.CSPF.OSPFLibCommand

Description

Internal debugging

Remedy

n/a

Severity

Debug-Data

Message Text

Sending opcode `%opcode%` to OSPFlib (`%msg%`)

Message Parameters

Name	Type
opcode	uInt32
msg	Printf

MPLS.CSPF.InternalAudit

Description

MPLS CSPF Internal development audit log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.CSPF.InternalExcept

Description

MPLS CSPF Internal development exception log messages

Remedy

Development Informational Only

Severity

Notice

Message Text

`%process_type%-%sub_id% (%sub_code%) %str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.CSPF.InternalProb

Description

MPLS CSPF Internal development problem log messages

Remedy

Development Informational Only

Severity

Warning

Message Text

`%process_type%-%sub_id% (%sub_code%) %str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.CSPF.MsgRtrUpdate

Description

A message was received for a Router Update.

Remedy

Development Informational Only.

Severity

Debug-Verbose

Message Text

Router Update: Area: `%area%` isGlobal: `%isGlobal%` entry: `%entry%` orgRouter: `%rtrId%` flush: `%isFlush%` local: `%isLocal%` teRouterId: `%teRtrId%` ipv6teRtrId: `%v6teRtrId%`

Message Parameters

Name	Type
area	uInt32
isGlobal	uInt32
entry	uInt32
rtrId	IP
isFlush	uInt32
isLocal	uInt32
teRtrId	IP
v6teRtrId	IP

MPLS.CSPF.MsgRtrAddrUpdate

Description

A message was received for a Router Address Update.

Remedy

Development Informational Only.

Severity

Debug-Verbose

Message Text

Router Address Update: Area: `%area%` isGlobal: `%isGlobal%` entry: `%entry%` orgRouter: `%rtrId%` correl: `%correl%` flush: `%isFlush%` numRtrAddr: `%numAddr%`

Message Parameters

Name	Type
area	uInt32
isGlobal	uInt32
entry	uInt32
rtrId	IP
correl	uInt32
isFlush	uInt32
numAddr	uInt32

MPLS.CSPF.MsgNtwkUpdate

Description

A message was received for a Network Update.

Remedy

Development Informational Only.

Severity

Debug-Verbose

Message Text

Network Update: Area: `%area%` isGlobal: `%isGlobal%` entry: `%entry%` orgRouter: `%rtrId%` correl: `%correl%` flush: `%isFlush%` ntwkId: `%ntwkId%` numAdjRtr: `%numAdj%`

Message Parameters

Name	Type
area	uInt32
isGlobal	uInt32
entry	uInt32
rtrId	IP
correl	uInt32
isFlush	uInt32
ntwkId	uInt32
numAdj	uInt32

MPLS.CSPF.MsgLinkUpdate

Description

A message was received for a Link Update.

Remedy

Development Informational Only.

Severity

Debug-Verbose

Message Text

Link Update: Area: `%area%` isGlobal: `%isGlobal%` entry: `%entry%` orgRouter: `%rtrId%` correl: `%correl%` flush: `%isFlush%` numLocal: `%numLoc%` numRemote: `%numRem%`

Message Parameters

Name	Type
area	uInt32
isGlobal	uInt32
entry	uInt32

Name	Type
rtrId	IP
correl	uInt32
isFlush	uInt32
numLoc	uInt32
numRem	uInt32

MPLS.CSPF.MsgLinkUpdate2

Description

A message was received for a Link Update (addtional info).

Remedy

Development Informational Only.

Severity

Debug-Verbose

Message Text

Link Update (cont): lnkCorr: `%lnkCorr%` lnkType: `%lnkType%` lnkId: `%lnkId%` lnkLocalId: `%lnkLocalId%` teMetric: `%teMet%` maxBW: `%maxBW%` maxRsvBW: `%maxRsvBW%` resClass: `%resClass%`

Message Parameters

Name	Type
lnkCorr	uInt32
lnkType	uInt32
lnkId	uInt32
lnkLocalId	uInt32
teMet	uInt32
maxBW	uInt32
maxRsvBW	uInt32
resClass	uInt32

MPLS.CSPF.MsgRtrAddrUpdateAddr

Description

A message was received for a Router Address Update.

Remedy

Development Informational Only.

Severity

Debug-Verbose

Message Text

Router Update (cont): Router Address: `%rtrAddr%`

Message Parameters

Name	Type
rtrAddr	IP

MPLS.CSPF.MsgNtwkUpdateAddr

Description

A message was received for a Network Update.

Remedy

Development Informational Only.

Severity

Debug-Verbose

Message Text

Network Update (cont): Adjacent Router Address: `%rtrAddr%`

Message Parameters

Name	Type
rtrAddr	IP

MPLS.CSPF.MsgLinkUpdateLocalAddr

Description

A message was received for a Link Update.

Remedy

Development Informational Only.

Severity

Debug-Verbose

Message Text

Link Update (cont): Local Address: `%rtrAddr%`

Message Parameters

Name	Type
rtrAddr	IP

MPLS.CSPF.MsgLinkUpdateRemoteAddr

Description

A message was received for a Link Update.

Remedy

Development Informational Only.

Severity

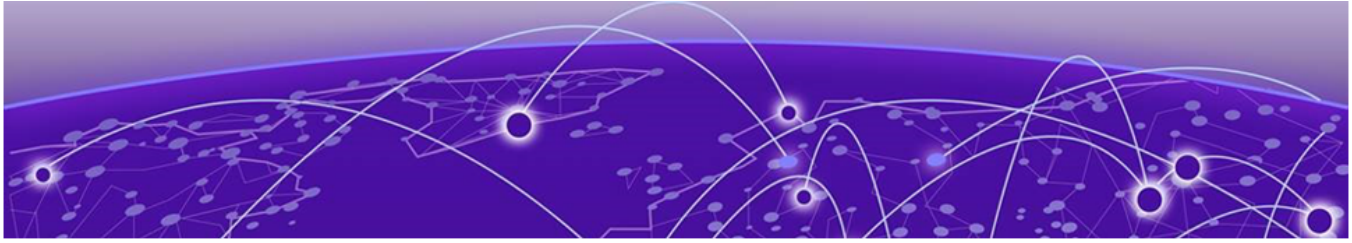
Debug-Verbose

Message Text

Link Update (cont): Remote Address: `%rtrAddr%`

Message Parameters

Name	Type
rtrAddr	IP



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MPLS.DPM.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.DebugData

Description

This message gets displayed when a IPS connect or reserve request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.DebugDataRel

Description

This message gets displayed when a IPS release request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.DebugDataHal

Description

This message gets displayed when Label Switch Path(LSP) data is written to the HAL interface. The original request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.InfoAny

Description

This message gets displayed during Label Switch Path(LSP) message processing. The Dataplane manage receives these messages over the Label Switch Interface(LSI) from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display debug messages for the mpls.dpm subcomonent.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.DebugDataKer

Description

This message gets displayed when Label Switch Path(LSP) data is written to the kernel software forwarder interface. The original request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.DebugDataL2vpn

Description

This message gets displayed when Label Switch Path(LSP) data is written to the kernel software forwarder interface. The original request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

MPLS.DPM.InternalDev

Description

MPLS DPM Internal development log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.DPM.InternalAudit

Description

MPLS DPM Internal development audit log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.DPM.InternalExcept

Description

MPLS DPM Internal development exception log messages

Remedy

Development Informational Only

Severity

Notice

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.DPM.InternalProb

Description

MPLS DPM Internal development problem log messages

Remedy

Development Informational Only

Severity

Warning

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.DPM.MemMgrLock

Description

This message gets displayed when a Dataplane Manager Lock opertion occurs.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.MemMgrUnLock

Description

This message gets displayed when a Dataplane Manager UnLock opertion has occured.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.MemMgrLockError

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.VerifyQos

Description

This message gets displayed when a IPS connect request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.RelReason

Description

This message gets displayed when a IPS release request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.AssociateDissoc

Description

This message gets displayed when a IPS associate or dissociate request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.AddXc2OutSegList

Description

This message gets displayed when an IPS connect request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.LspMgrReq

Description

This message gets displayed when Label Switch Path(LSP) data is written to the LSP Manager interface. The original request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.InSegLabel

Description

This message gets displayed when a IPS connect or reserve request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.OutSegLabel

Description

This message gets displayed when a IPS connect or reserve request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.SwitchFlush

Description

This message gets displayed when a IPS "join goin" notification is received by the Dataplane Manager stub from DCL.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.SetIngrsPool

Description

This message gets displayed when a CLI request to set the switch ingress bandwidth pool reservation size is received by the Dataplane Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.SetEgrsPool

Description

This message gets displayed when a CLI request to set the switch egress bandwidth pool reservation size is received by the Dataplane Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

MPLS.DPM.QosError

Description

A problem has been detected which is interfering with the normal operation of a MPLS LSP tunnel. A request for bandwidth related to the specified RSVP tunnel could not be granted. The system is not functioning as expected.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by increasing the configured bandwidth on the interface or interfaces that are within the LSP's path.

Severity

Debug-Summary

Message Text

Bandwidth not available: request size = `%bandwidth%` kbps. tnnl id = `%tnnl_id%`. name = `%tnnlName%`. tnnl head = `%tnnl_head%`. tnnl tail = `%tnnl_tail%`. seg type = `%seg_type%`

Message Parameters

Name	Type
tnnlName	String
tnnl_id	uInt16
bandwidth	uInt32
tnnl_head	srcIPaddress

Name	Type
tnnl_tail	dstIPaddress
seg_type	String

MPLS.DPM.QosReq

Description

This event indicates that a MPLS RSVP bandwidth request has been successfully processed. The system is functioning as expected.

Remedy

N/A.

Severity

Debug-Data

Message Text

Bandwidth allocated: request size = `%bandwidth%` kbps. tnnl id = `%tnnl_id%`. name = `%tnnlName%`. tnnl head = `%tnnl_head%`. tnnl tail = `%tnnl_tail%`. interface = `%if_name%`. seg type = `%seg_type%`

Message Parameters

Name	Type
tnnlName	String
tnnl_id	uInt16
bandwidth	uInt32
tnnl_head	srcIPaddress
tnnl_tail	dstIPaddress
if_name	String
seg_type	String

MPLS.DPM.Intf_I3Event

Description

This event indicates that a MPLS interface request has been successfully processed. The system is functioning as expected.

Remedy

N/A.

Severity

Debug-Data

Message Text

Vlan I3 processing: current event = `%if_event_str%` interface instance = `%if_instance%`. desc. = `%trace_str%`.

Message Parameters

Name	Type
if_event_str	String
trace_str	String
if_instance	uInt32

MPLS.DPM.I3_Error

Description

This event indicates that a MPLS interface request has failed.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by reducing the amount of resouces used by the system.

Severity

Error

Message Text

Vlan I3 error: current event = `%if_event_str%` interface instance = `%if_instance%`. desc. = `%cause_str%`. Return code = `%retcode%`

Message Parameters

Name	Type
if_event_str	String
if_instance	uInt32
retcode	sInt
cause_str	String

MPLS.DPM.StubI3Trace

Description

This event traces a MPLS interface request. The system is functioning as expected.

Remedy

N/A.

Severity

Debug-Data

Message Text

DPM I3 stub: current request = `%req_str%` desc. = `%trace_str%`.

Message Parameters

Name	Type
req_str	String
trace_str	String

MPLS.DPM.StubI3Error

Description

This event indicates that a MPLS interface request failed.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by reducing the amount of resouces used by the system.

Severity

Error

Message Text

DPM I3 stub Error: current request = `%req_str%` desc. = `%trace_str%`.

Message Parameters

Name	Type
req_str	String
trace_str	String

MPLS.DPM.IlmKer

Description

This message gets displayed when Label Switch Path(LSP) data is written to the kernel software forwarder interface. The original request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

Sent Kernel ILM: lsp_xc_index = `%lsp_xc_index%` recv. label = `%rxLabel%` xmit label = `%txLabel%` next hop ip = `%nxt_hop_ip%` connect state = `%conn_state_str%` protocol = `%prot_type_str%` kernel req. code = `%kern_req_code%`

Message Parameters

Name	Type
conn_state_str	String
kern_req_code	String
lsp_xc_index	sInt
nxt_hop_ip	dstIPaddress

Name	Type
nhlfe_indx	sInt
rxLabel	uInt32
txLabel	uInt32
prot_type_str	String

MPLS.DPM.Brm_BwRsp

Description

This message gets displayed when the Dataplane Manager receives a response from Bandwidth Manager with the status of the requested bandwidth pool.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

Recvd BRM response: (Switch view) request opcode = `%brm_opcode_str%` ingress req. bw = `%bwIngress%` egress req. bw = `%bwEgress%` available ingress bw = `%avail_Ing%` available egress = `%avail_Egr%`

Message Parameters

Name	Type
brm_opcode_str	String
bwIngress	uInt32
bwEgress	uInt32
avail_Ing	uInt32
avail_Egr	uInt32

MPLS.DPM.Brm_BwSwap

Description

This message gets displayed when the Dataplane Manager receives a response from Bandwidth Manager with the status of the requested bandwidth pool.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

Recvd BRM response: (MPLS view) request opcode = `%brm_opcode_str%` ingress req. bw = `%bwIngress%` egress req. bw = `%bwEgress%` available ingress bw = `%avail_Ing%` available egress = `%avail_Egr%`

Message Parameters

Name	Type
brm_opcode_str	String
bwIngress	uInt32
bwEgress	uInt32
avail_Ing	uInt32
avail_Egr	uInt32

MPLS.DPM.QosI3Trace

Description

This event traces a MPLS interface request. The system is functioning as expected.

Remedy

N/A.

Severity

Debug-Data

Message Text

DPM I3 qos: current request = `%req_str%` interface instance = `%if_index%`.

Message Parameters

Name	Type
req_str	String
if_index	uInt32

MPLS.DPM.I3QosError

Description

This event indicates that a MPLS interface request has failed.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by reducing the amount of resouces used by the system.

Severity

Error

Message Text

Qos I3 error: request event = `%event_str%` desc. = `%cause_str%` interface instance = `%if_instance%`.

Message Parameters

Name	Type
event_str	String
if_instance	uInt32
cause_str	String

MPLS.DPM.QosUpdEgressBw

Description

This event indicates that a MPLS RSVP LSP bandwidth has been successfully updated. The system is functioning as expected.

Remedy

N/A.

Severity

Debug-Data

Message Text

Bandwidth update: req. size = %bandwidth% kbps. hold pri. = %hold_pri%. name = %tnnlName%. tnnl head = %tnnl_head%. tnnl tail = %tnnl_tail%. intface = %if_name%. seg type = %upd_type% lsp_index = %xc_index%

Message Parameters

Name	Type
tnnlName	String
hold_pri	uInt32
bandwidth	uInt32
tnnl_head	srcIPaddress
tnnl_tail	dstIPaddress
if_name	String
upd_type	String
xc_index	uInt32

MPLS.DPM.VerifyQosReq

Description

This event traces a MPLS interface request for LSP bandwidth. The system is functioning as expected.

Remedy

N/A.

Severity

Debug-Data

Message Text

Bandwidth verify request: bw in use = %bw_inuse% pool size = %pool_size% intf instance = %if_stance% starting hold priority = %hold_start_value%.

Message Parameters

Name	Type
bw_inuse	uInt32
pool_size	uInt32
if_stance	uInt32
hold_start_value	uInt32

MPLS.DPM.QosSetRsvPool

Description

This event traces a MPLS RSVP LSP bandwidth set request. The system is functioning as expected.

Remedy

N/A.

Severity

Debug-Data

Message Text

Bandwidth set req.: Ingress size = %IngBwReq% Egress size = %EgrBwReq% hold pri. = %hold_pri%. interface = %if_name%. seg type = %set_type% Hold In-use bw = %InUsePri% Total In-use bw = %InUseTot%

Message Parameters

Name	Type
if_name	String
set_type	String
IngBwReq	uInt32
EgrBwReq	uInt32
InUsePri	uInt32

Name	Type
InUseTot	uInt32
hold_pri	uInt32

MPLS.DPM.QosUpdIngressBw

Description

This event indicates that a MPLS RSVP LSP bandwidth has been successfully updated. The system is functioning as expected.

Remedy

N/A.

Severity

Debug-Data

Message Text

Bandwidth update: req. size = `%bandwidth%` kbps. hold pri. = `%hold_pri%`. intface = `%if_name%`. seg type = `%upd_type%` set pri = `%set_pri%` lsp_index = `%xc_index%`

Message Parameters

Name	Type
hold_pri	uInt32
bandwidth	uInt32
if_name	String
upd_type	String
set_pri	uInt32
xc_index	uInt32

MPLS.DPM.HalApiUpdate

Description

This message gets displayed when Label Switch Path(LSP) data is written to the HAL interface. The original request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.HalNhlfeUpdate

Description

This message gets displayed when Label Switch Path(LSP) data is written to the HAL interface. The original request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.HalIlmUpdate

Description

This message gets displayed when Label Switch Path(LSP) data is written to the HAL interface. The original request is received by the Dataplane Manager from the Label Manager.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display messages for the Dataplane Manager (DPM) MPLS sub-component.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.LSI

Description

This message gets displayed when a message is received over the Label Switch Interface(LSI) from the Label Manager. These messages are sent during the setup and tearing down of LSPs.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display debug messages for the mpls.dpm subcomonent.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.DB

Description

This message gets displayed when an LSP DB update is performed. These messages are sent during the setup and tearing down of LSPs.

Remedy

This is a debug message, and it's normal to be displayed when a filter is created to display debug messages for the mpls.dpm subcomonent.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.DPM.UNEX

Description

These messages are sent during the setup and tearing down of LSPs.

Remedy

Generally indicates programming error or resource failure.

Severity

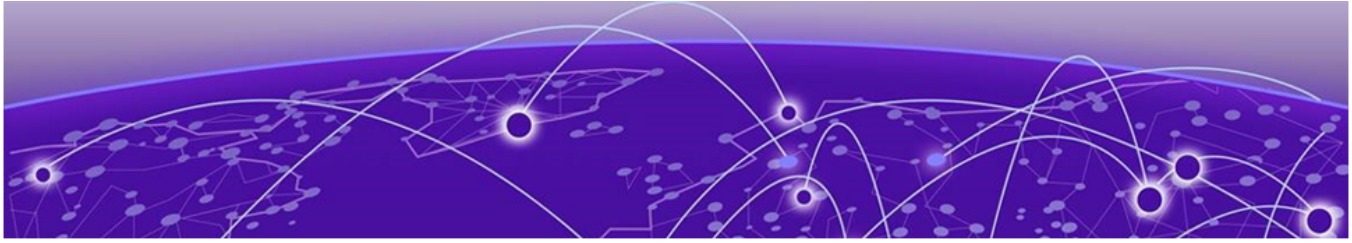
Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



MPLS.HAL Messages

MPLS.HAL.clearIlmStatsFail on page 3204
MPLS.HAL.clearIlmStatsSuccess on page 3204
MPLS.HAL.sendClearIlmStats on page 3205
MPLS.HAL.createClearIlmStats on page 3205

MPLS.HAL.clearIlmStatsFail

Description

Notification from the HAL that an attempt to clear the ILM counters failed. See the HAL EMS logs for more details.

Remedy

No remedy is available.

Severity

Warning

Message Text

Received message from the HAL: ILM stats clear failed (error code `%errCode%`)

Message Parameters

Name	Type
errCode	xInt32

MPLS.HAL.clearIlmStatsSuccess

Description

Notification from the HAL that an attempt to clear the ILM counters has been successfully completed.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Received message from the HAL: ILM stats cleared.

MPLS.HAL.sendClearIlmStats

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Sending a message to the HAL, requesting a statistics clear of `%numIlms%` ILMs.

Message Parameters

Name	Type
numIlms	uInt32

MPLS.HAL.createClearIlmStats

Description

No description is available.

Remedy

No remedy is available.

Severity

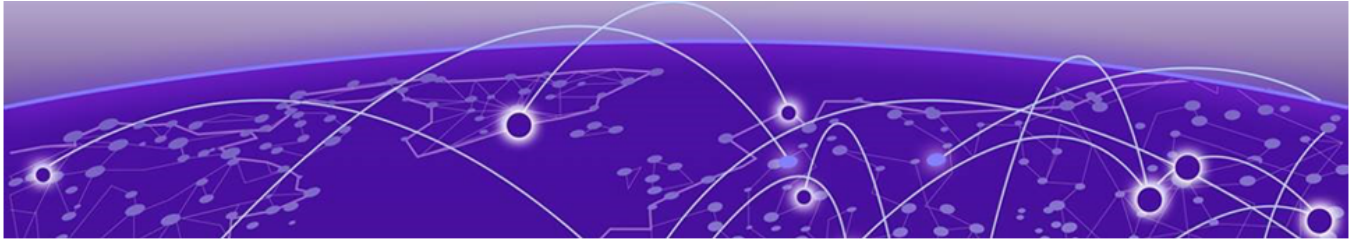
Debug-Summary

Message Text

Creating a message for the HAL, requesting a statistics clear of `%numIlms%` ILMs.

Message Parameters

Name	Type
numIlms	uInt32



MPLS.L2VPN Messages

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MPLS.L2VPN.deleteNamedLsp on page 3209
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MPLS.L2VPN.updateVcLsp on page 3210
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MPLS.L2VPN.lspNotUsable on page 3212
MPLS.L2VPN.lspNotFound on page 3212
MPLS.L2VPN.noTunnelLsps on page 3213
MPLS.L2VPN.vcLspNotReady on page 3213
MPLS.L2VPN.pseudoWireUpdate on page 3214
MPLS.L2VPN.pseudoWireRemove on page 3214
MPLS.L2VPN.unsupportedAddrFam on page 3215
MPLS.L2VPN.triggerFuncEnter on page 3215
MPLS.L2VPN.subCompDisabled on page 3216
MPLS.L2VPN.noUsableTunnelLsp on page 3216
MPLS.L2VPN.servicesDisabled on page 3217
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MPLS.L2VPN.dumpPeerState on page 3218
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MPLS.L2VPN.adjustSvcIf on page 3229
MPLS.L2VPN.VplsTransportLspDebug on page 3230
MPLS.L2VPN.VplsUpdateFec on page 3230
MPLS.L2VPN.ldpStatusList on page 3231
MPLS.L2VPN.ldpStatusListVerbose on page 3231
MPLS.L2VPN.STPDebugSummary on page 3232
MPLS.L2VPN.SpclFlushDebugSummary on page 3232
MPLS.L2VPN.VplsMibDebug on page 3233
MPLS.L2VPN.CreatVCFECFail on page 3233
MPLS.L2VPN.SendVCFECFail on page 3234
MPLS.L2VPN.RemL2VPNVLANTreeFail on page 3235
MPLS.L2VPN.ChgPeerSrcAddrFail on page 3235
MPLS.L2VPN.ERPS_Debug on page 3236
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MPLS.L2VPN.updateNamedLsp

Description

Debug tracing for named LSPs being updated by the LSP manager.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Processing update for LSP named `%lspName%`: `%message%`

Message Parameters

Name	Type
lspName	String
message	Printf

MPLS.L2VPN.updateBestLsp

Description

Debug trace for best-LSP-to-dest updates from LSP manager.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Dest `%destAddr%`: `%message%`

Message Parameters

Name	Type
destAddr	IPaddress
message	Printf

MPLS.L2VPN.deleteNamedLsp

Description

Debug trace for named LSPs being deleted from LSP manager.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

LSP named `%lspName%`: `%message%`

Message Parameters

Name	Type
lspName	String
message	Printf

MPLS.L2VPN.deleteBestLsp

Description

Debug trace for deleting the best-LSP-to-dest, as notified by LSP manager.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

`%message%`

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.updateVcLsp

Description

Debug trace for updating the VC LSP, as notified by data plane manager.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

VPLS named `%vplsName%`, VC ID `%vcId%`: `%message%`

Message Parameters

Name	Type
vplsName	String
vcId	uInt32
message	Printf

MPLS.L2VPN.peerNotFound

Description

A peer lookup has failed. The address specified may be bad, or the peer has been deleted prior to the lookup being performed.

Remedy

No remedy is available.

Severity

Notice

Message Text

Unable to find peer with address `%peerAddr%` on VPLS `%vplsName%`

Message Parameters

Name	Type
vplsName	String
peerAddr	IPaddress

MPLS.L2VPN.lspNotUsable

Description

The LSP has not yet been established or is configured as not usable by VPLS.

Remedy

No remedy is available.

Severity

Notice

Message Text

LSP `%lspName%` not useable by VPLS: `%reason%`

Message Parameters

Name	Type
lspName	String
reason	String

MPLS.L2VPN.lspNotFound

Description

While configuring a named LSP to an L2VPN peer, the named LSP information could not be found. This may occur if the named LSP has been deleted.

Remedy

If the named LSP still exists, there may have been a timing issue and re-trying the command again may succeed.

Severity

Error

Message Text

LSP `%lspName%` not found.

Message Parameters

Name	Type
lspName	String

MPLS.L2VPN.noTunnelLsps

Description

No LSPs have been manually added for this peer, and no LSPs have been fed to VPLS by the LSP manager.

Remedy

No remedy is available.

Severity

Notice

Message Text

There are no tunnel LSPs for the peer at `%peerAddr%`

Message Parameters

Name	Type
peerAddr	IPaddress

MPLS.L2VPN.vcLspNotReady

Description

The data plane manager has not notified VPLS about a VC label for this pseudo wire.

Remedy

No remedy is available.

Severity

Notice

Message Text

The VC LSP for the peer at `%peerAddr%` on VPLS `%vplsName%` is not ready.

Message Parameters

Name	Type
vplsName	String
peerAddr	IPaddress

MPLS.L2VPN.pseudoWireUpdate

Description

Debug tracing for pseudo-wire updates.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

VPLS `%vplsName%`, Peer `%peerAddr%`: `%message%`

Message Parameters

Name	Type
vplsName	String
peerAddr	IPaddress
message	Printf

MPLS.L2VPN.pseudoWireRemove

Description

Debug tracing for removing the pseudo-wire from hardware.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

VPLS `%vplsName%`, Peer `%peerAddr%`: `%message%`

Message Parameters

Name	Type
vplsName	String
peerAddr	IPaddress
message	Printf

MPLS.L2VPN.unsupportedAddrFam

Description

AF_INET(0x2) is the only address family currently supported.

Remedy

No remedy is available.

Severity

Notice

Message Text

Address family (`%addrFamily%`) not supported.

Message Parameters

Name	Type
addrFamily	xInt32

MPLS.L2VPN.triggerFuncEnter

Description

The function named was called. This function is triggered by other MPLS components.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

`%funcName%` entered.

Message Parameters

Name	Type
funcName	String

MPLS.L2VPN.subCompDisabled

Description

A component required by VPLS is not enabled.

Remedy

No remedy is available.

Severity

Notice

Message Text

An MPLS subcomponent required for VPLS is not enabled.

MPLS.L2VPN.noUsableTunnelLsp

Description

No usable LSPs have been fed to VPLS by the LSP manager.

Remedy

No remedy is available.

Severity

Info

Message Text

No usable LSP for `%peerAddr%`: `%message%`

Message Parameters

Name	Type
peerAddr	IPaddress
message	String

MPLS.L2VPN.servicesDisabled

Description

Notification about the state of VPLS services for the specified VPLS instance.

Remedy

No remedy is available.

Severity

Info

Message Text

VPLS services are disabled for VPLS `%vplsName%`, PW not established

Message Parameters

Name	Type
vplsName	String

MPLS.L2VPN.sendVcFecInfo

Description

Debug tracing for sending the VC FEC info to DPM

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

VC ID `%vcId%`: `%message%`

Message Parameters

Name	Type
vcId	uInt32
message	Printf

MPLS.L2VPN.dumpPeerState

Description

Dump of a peer's state bitmap, used to determine display messages regarding a peer's state.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Peer: `%peerAddr%`, state bitmap: `%peerStateBitmap%`

Message Parameters

Name	Type
peerAddr	IPaddress
peerStateBitmap	xInt32

MPLS.L2VPN.ldpAdjCallback

Description

Debug tracing for the LDP adjacency callback.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

VPLS `%vplsName%`, peer `%adjAddr%`: `%message%`

Message Parameters

Name	Type
vplsName	String
adjAddr	IPaddress
message	Printf

MPLS.L2VPN.ldpAdjMsg

Description

debug tracing for targeted LDP adjacency events

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

VPLS `%vplsName%`, peer `%peerAddr%`: `%message%`

Message Parameters

Name	Type
vplsName	String
peerAddr	IPaddress
message	Printf

MPLS.L2VPN.floodAdd

Description

debug tracing

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Adding NHLFE `%nhlfeInstance%` to VPLS `%vplsName%`: `%msg%`

Message Parameters

Name	Type
vplsName	String
nhlfeInstance	xInt32
msg	Printf

MPLS.L2VPN.floodDelete

Description

debug tracing

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Deleting NHLFE `%nhlfeInstance%` from VPLS `%vplsName%`: `%msg%`

Message Parameters

Name	Type
vplsName	String
nhlfeInstance	xInt32
msg	Printf

MPLS.L2VPN.setPwUptime

Description

This indicates that the PW is going UP for the first time since being down. The time is recorded for display purposes.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Peer: `%peerAddr%` - PW moving to UP state, setting time

Message Parameters

Name	Type
peerAddr	IPaddress

MPLS.L2VPN.clearPwUptime

Description

This indicates that the PW is going UP for the first time since being down. The time is recorded for display purposes.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Peer: `%peerAddr%` - PW leaving UP state, time being cleared

Message Parameters

Name	Type
peerAddr	IPaddress

MPLS.L2VPN.mtuMismatch

Description

A peer on this VPLS instance has an MTU size that does not match the locally configured VPLS MTU. They must match for the two switches to exchange VC LSP labels.

Remedy

Check configuration of local and remote switches. For the local switch, the VPLS MTU size can be seen in the output of 'show vpls detail'. This parameter is set on a per-VPLS basis.

Severity

Notice

Message Text

VPLS ID `%vcId%`, Peer `%peerAddr%`: local MTU size (`%localMtu%`) does not match the remote MTU size (`%remoteMtu%`)

Message Parameters

Name	Type
vcId	uInt32
peerAddr	IPaddress
localMtu	uInt16
remoteMtu	uInt16

MPLS.L2VPN.noStorage

Description

The specified parameter was unexpectedly NULL and cannot be used for further processing. This may indicate corruption in L2VPN data and result in degradation of L2VPN services.

Remedy

There is no workaround for this problem.

Severity

Error

Message Text

No storage for parameter `%varName%` provided to routine.

Message Parameters

Name	Type
varName	String

MPLS.L2VPN.vcLspDump

Description

Debug trace for updating the VC LSP, as notified by data plane manager.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

VPLS `%vplsName%`, peer `%peerAddr%` VC info: ILM `%ilmInstance%` / `%rxLabel%`, NHLFE `%nhlfeInstance%` / `%txLabel%`

Message Parameters

Name	Type
vplsName	String
peerAddr	IPaddress
ilmInstance	uInt32
rxLabel	xInt32
nhlfeInstance	uInt32
txLabel	xInt32

MPLS.L2VPN.fecSendFail

Description

Internal commmunication error, possibly recoverable (see message).

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to send FEC to NBASE: `%message%`

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.fecSendQueued

Description

Internally handled commmunication error, automatically recoverable.

Remedy

No remedy is available.

Severity

Info

Message Text

Handling of VC FEC waiting for a free buffer, request is queued.

MPLS.L2VPN.rsmReady

Description

Debug tracing for the RSM ready notification.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.VplsRedundancyDebug

Description

VPLS-ESRP Module debug logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.L2VPN.VplsRedundancyVerbose

Description

VPLS ESRP generic verbose debug logs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.L2VPN.receiveMacAddr

Description

Debug to dump info received from peer for MAC Address Withdrawal message.

Remedy

Analyze data for debugging.

Severity

Debug-Summary

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.sendMacAddr

Description

Debug information for sending MAC Address Withdrawal message.

Remedy

Analyze data for debugging.

Severity

Debug-Data

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.pseudoWireActivityCheck

Description

Debug tracing for pseudo-wire updates.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

VPLS `%vplsName%`, Peer `%peerAddr%`: `%message%`

Message Parameters

Name	Type
vplsName	String
peerAddr	IPaddress
message	Printf

MPLS.L2VPN.EAPS_Debug

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

`%message%`

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.healthCheckVCCVFailure

Description

This log indicates that VCCV health check has detected or cleared a failure on a pseudo-wire.

Remedy

Fix the problem that caused the pseudo-wire to go down (if detected).

Severity

Notice

Message Text

VPLS `%vplsName%`, Peer `%peerAddr%`: Pseudo-Wire Failure `%action%` by VCCV

Message Parameters

Name	Type
vplsName	String
peerAddr	IPaddress
action	String

MPLS.L2VPN.adjustSvcIf

Description

Debug message

Remedy

None. This is for debugging only.

Severity

Debug-Summary

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.VplsTransportLspDebug

Description

Debug message for looking at Transport LSP changes.

Remedy

None, this is a debug only log.

Severity

Debug-Data

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.VplsUpdateFec

Description

Debug log for tracking sending fec updates based on local vc status changes.

Remedy

None, as this is for general debugging only.

Severity

Info

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.ldpStatusList

Description

Debug log for printing info related to Peer Status Pending List.

Remedy

None, as this is for general debugging only.

Severity

Debug-Summary

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.ldpStatusListVerbose

Description

Verbose log for printing info related to Peer Status Pending List.

Remedy

None, as this is for general debugging only.

Severity

Debug-Verbose

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.STPDebugSummary

Description

Generic debug message related to STP-triggered flushes from STP redundancy.

Remedy

None. This is a debug message only.

Severity

Debug-Summary

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

MPLS.L2VPN.SpclFlushDebugSummary

Description

Generic debug message related to triggered flushes from VPLS redundancy.

Remedy

None. This is a debug message only.

Severity

Debug-Summary

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

MPLS.L2VPN.VplsMibDebug

Description

A generic message to debug SNMP related functionality for VPLS mibs.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.CreatVCFECFail

Description

An attempt to create a VC FEC object failed. As a result, either a PW will not be established to the specified peer, or the status of an existing PW will not be sent to the peer.

Remedy

There is no workaround for this problem.

Severity

Error

Message Text

An attempt to create a VC FEC object for peer `%peer%` failed (`%reason%`): `%msg%`.

Message Parameters

Name	Type
peer	IPaddress
reason	sInt
msg	String

MPLS.L2VPN.SendVCFECFail

Description

An attempt to send a VC FEC object failed. As a result, either a PW will not be established to the specified peer, or the status of an existing PW will not be sent to the peer.

Remedy

There is no workaround for this problem.

Severity

Error

Message Text

An attempt to send a VC FEC object for peer `%peer%` failed.

Message Parameters

Name	Type
peer	IPaddress

MPLS.L2VPN.RemL2VPNVLANTreeFail

Description

An attempt to remove an L2VPN instance from a tree ordered by VLAN instance failed. The instance may have already been removed, in which case there should be no impact; however, there could have been data corruption, in which case this L2VPN or other L2VPNs may not function properly.

Remedy

There is no workaround for this error.

Severity

Error

Message Text

Removal of L2VPN instance with id `%id%` from the VLAN tree failed (`%reason%`).

Message Parameters

Name	Type
id	uInt32
reason	sInt

MPLS.L2VPN.ChgPeerSrcAddrFail

Description

While changing the source address of all L2VPN peers, usually due to the MPLS LSR-ID changing, the list of peers was found to be corrupted. The functionality of some or all peers may be affected.

Remedy

There is no workaround.

Severity

Error

Message Text

While changing peer source addresses, an error occurred (`%reason%`): `%msg%`.

Message Parameters

Name	Type
reason	sInt
msg	String

MPLS.L2VPN.ERPS_Debug

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%message%`

Message Parameters

Name	Type
message	Printf

MPLS.L2VPN.ParmMismatchRcvryNotCfg

Description

This condition occurs when the peer releases our label due to an interface parameter mismatch during pseudo-wire signaling and the user has configured automatic recovery from this situation as none.

Remedy

If the pseudo-wire is up, there is no action required. If the pseudo-wire is not up and still in the signaling state with no VC labels, administratively disable and re-enable the pseudo-wire.

Severity

Info

Message Text

Automatic interface parameter mismatch recovery is not configured for `%vplsName%` peer `%peerAddr%` vcId `%vcId%` and the peer has released our VC label.

Message Parameters

Name	Type
vplsName	String
peerAddr	IPaddress
vcId	uInt32

MPLS.L2VPN.VPLSStatusInfo

Description

Generic debug message for VPLS status changes.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

L2VPN: `%vplsName%`; Status: `%status%`; Msg: `%message%`

Message Parameters

Name	Type
vplsName	String
status	sInt32
message	Printf

MPLS.L2VPN.ChgPWState

Description

This event occurs when an Ethernet pseudo-wire of an L2VPN changes state. The valid states for an Ethernet PW are "Up", "Down", "Signaling", and "Ready". If available, the new PW state may include detailed information regarding the reason for being in that particular state. This event also contains relevant information about the PW at the time of the state change, such as the MPLS PW labels.

Remedy

No action required - Informational message only.

Severity

Info

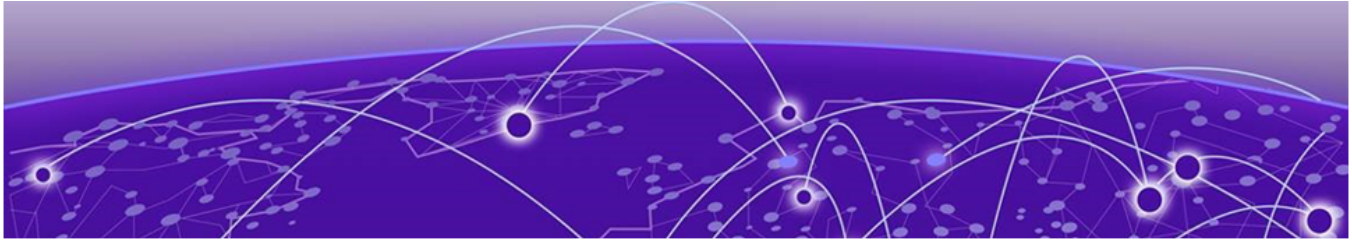
Message Text

Pseduo-wire to peer `%peerIpaddr%` in L2VPN `%l2vpnType%` \"`%l2vpnName%`\" changed state from `%prevState%` to `%curState%`. PWId=`%pwId%`, PWIndex=`%pwIndex%`, RxLabel=`%rxLabel%`, TxLabel=`%txLabel%`

Message Parameters

Name	Type
l2vpnName	String
l2vpnType	String
peerIpaddr	IPaddress
prevState	String
curState	String
pwId	uInt32
pwIndex	uInt32

Name	Type
rxLabel	xInt32
txLabel	xInt32



MPLS.L3VPN Messages

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MPLS.L3VPN.CreatVRExit on page 3241
MPLS.L3VPN.CreatVRErr on page 3241
MPLS.L3VPN.DelVREntry on page 3242
MPLS.L3VPN.DelVRExit on page 3243
MPLS.L3VPN.CfgVRLblEntry on page 3243
MPLS.L3VPN.CfgVRLblExit on page 3244
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MPLS.L3VPN.MibState on page 3245
MPLS.L3VPN.Trace1 on page 3246
MPLS.L3VPN.Trace2 on page 3246
MPLS.L3VPN.ChgVRLblInfo on page 3247

MPLS.L3VPN.CreatVREntry

Description

MPLS VR or VRF create enters.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Enter MPLS Create VR - Name=`%name%` Id=`%id%`

Message Parameters

Name	Type
name	String
id	sInt32

MPLS.L3VPN.CreatVRExit

Description

MPLS VR or VRF create Exists.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Exit MPLS Create VR - Name=`%name%` Id=`%id%` - `%msg%` - Auto=`%a%` Cfg=`%c%`

Message Parameters

Name	Type
name	String
id	sInt32
msg	String
a	xInt32
c	xInt32

MPLS.L3VPN.CreatVRErr

Description

MPLS VR or VRF create Error.

Remedy

Pay attention to the msg field. Sometimes Auto will contain in error code.

Severity

Error

Message Text

MPLS Create VR - Name=%name% Id=%id% - %msg% - Auto=%a% Cfg=%c%

Message Parameters

Name	Type
name	String
id	sInt32
msg	String
a	xInt32
c	xInt32

MPLS.L3VPN.DelVREntry

Description

MPLS VR or VRF Delete enters.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Enter MPLS Delete VR - Name=%name% Id=%id%

Message Parameters

Name	Type
name	String
id	sInt32

MPLS.L3VPN.DelVRExit

Description

MPLS VR or VRF create Exists.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Exit MPLS Delete VR - Name=`%name%` Id=`%id%` - `%msg%` - Auto=`%a%` Cfg=`%c%`

Message Parameters

Name	Type
name	String
id	sInt32
msg	String
a	xInt32
c	xInt32

MPLS.L3VPN.CfgVRLblEntry

Description

MPLS VRF Configure VR Label Entry.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Enter MPLS Configure VR Label - Name=`%name%` Id=`%id%` Flags=`%a%` Label=`%c%`

Message Parameters

Name	Type
name	String
id	sInt32
a	xInt32
c	xInt32

MPLS.L3VPN.CfgVRLblExit

Description

MPLS VR or VRF create Exists.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Exit MPLS Configure VR Label - Name=`%name%` Id=`%id%` - `%msg%` - Auto=`%a%` Cfg=`%c%`

Message Parameters

Name	Type
name	String
id	sInt32
msg	String
a	xInt32
c	xInt32

MPLS.L3VPN.CfgVRLblErr

Description

MPLS VRF configure Error.

Remedy

Pay attention to the msg field. Sometimes Auto will contain in error code.

Severity

Error

Message Text

MPLS Configure VR Label Error - Name=`%name%` Id=`%id%` - `%msg%` - Auto=`%a%` Cfg=`%c%`

Message Parameters

Name	Type
name	String
id	sInt32
msg	String
a	xInt32
c	xInt32

MPLS.L3VPN.MibState

Description

Logged when an L3VPN Mib instance changes state.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

Instance: `%instance%`: (State: `%startState%`, Event: `%event%`)->(State: `%endState%`)

Message Parameters

Name	Type
instance	xInt32
startState	String
event	String
endState	String

MPLS.L3VPN.Trace1

Description

MPLS L3 VPN MIB Level 1 Tracing.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.L3VPN.Trace2

Description

MPLS L3 VPN MIB Level 2 Tracing.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

MPLS.L3VPN.ChgVRLblInfo

Description

This log can be used to track label changes to a VPN VRF.

Remedy

No action required - Informational message only.

Severity

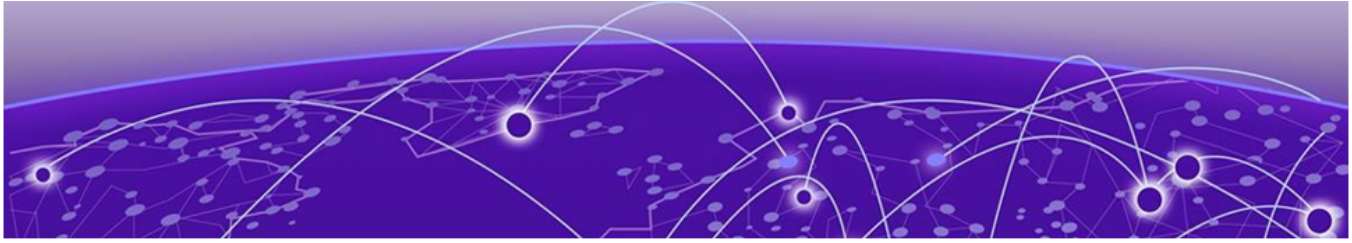
Debug-Summary

Message Text

Change MPLS VR Label for Name=`%name%` Id=`%id%`. `%message%`

Message Parameters

Name	Type
name	String
id	uInt32
message	Printf



MPLS.LabelMgr Messages

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MPLS.LabelMgr.InternalAudit on page 3249
MPLS.LabelMgr.InternalExcept on page 3249
MPLS.LabelMgr.InternalProb on page 3250

MPLS.LabelMgr.InternalDev

Description

MPLS Label Manager Internal development log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.LabelMgr.InternalAudit

Description

MPLS Label Manager Internal development audit log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id% (%sub_code%) %str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.LabelMgr.InternalExcept

Description

MPLS Label Manager Internal development exception log messages

Remedy

Development Informational Only

Severity

Notice

Message Text

`%process_type%-%sub_id% (%sub_code%) %str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.LabelMgr.InternalProb

Description

MPLS Label Manager Internal development problem log messages

Remedy

Development Informational Only

Severity

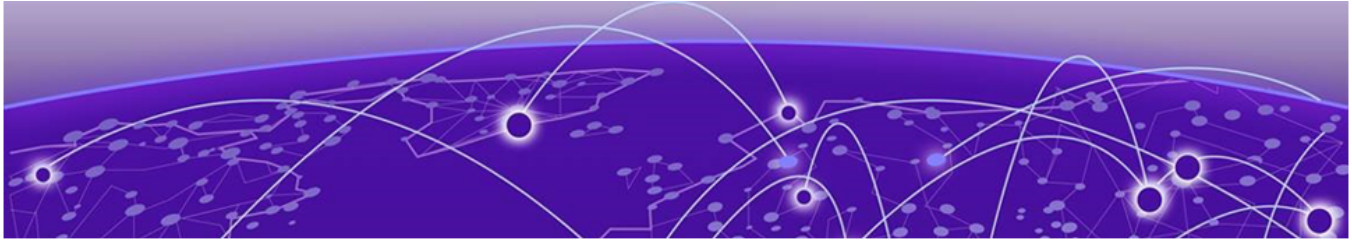
Warning

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String



MPLS.LDP Messages

MPLS.LDP.InternalDev on page 3251
MPLS.LDP.InternalAudit on page 3252
MPLS.LDP.InternalExcept on page 3252
MPLS.LDP.InternalProb on page 3253
MPLS.LDP.RxHelloMsg on page 3254
MPLS.LDP.TxHelloMsg on page 3254
MPLS.LDP.RxInitializationMsg on page 3255
MPLS.LDP.TxInitializationMsg on page 3256
MPLS.LDP.RxKeepAliveMsg on page 3257
MPLS.LDP.TxKeepAliveMsg on page 3257
MPLS.LDP.SessnUp on page 3258
MPLS.LDP.SessnDown on page 3259
MPLS.LDP.ProtocolError on page 3260
MPLS.LDP.LogSessnMsgFail on page 3261
MPLS.LDP.ChgProtoState on page 3261

MPLS.LDP.InternalDev

Description

MPLS LDP Internal development log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id% (%sub_code%) %str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.LDP.InternalAudit

Description

MPLS LDP Internal development audit log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.LDP.InternalExcept

Description

MPLS LDP Internal development exception log messages

Remedy

Development Informational Only

Severity

Notice

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.LDP.InternalProb

Description

MPLS LDP Internal development problem log messages

Remedy

Development Informational Only

Severity

Warning

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.LDP.RxHelloMsg

Description

LDP received a Hello Message.

Remedy

This log is for informational purposes only.

Severity

Info

Message Text

LDP received a Hello Message. Local LDPID: `%localLsrId%:%localLabelSpaceId%`, Peer LDPID: `%peerLsrId%:%peerLabelSpaceId%`, Ent Idx: `%entityIndex%`, I/F Idx: `%ifIndex%`, Transport Addr: `%transportAddress%`, Source Addr: `%sourceAddress%`.

Message Parameters

Name	Type
localLsrId	srcIP
localLabelSpaceId	uInt16
peerLsrId	dstIP
peerLabelSpaceId	uInt16
entityIndex	uInt32
ifIndex	sInt32
transportAddress	IP
sourceAddress	IP

MPLS.LDP.TxHelloMsg

Description

LDP sent a Hello Message.

Remedy

This log is for informational purposes only.

Severity

Info

Message Text

LDP sent a Hello Message. Local LDPID: `%localLsrId%:%localLabelSpaceId%`, Ent Idx: `%entityIndex%`, I/F Idx: `%ifIndex%`, Transport Addr: `%transportAddress%`, Source Addr: `%sourceAddress%`.

Message Parameters

Name	Type
localLsrId	srcIP
localLabelSpaceId	uInt16
entityIndex	uInt32
ifIndex	sInt32
transportAddress	IP
sourceAddress	IP

MPLS.LDP.RxInitializationMsg

Description

LDP received a Initialization Message.

Remedy

This log is for informational purposes only.

Severity

Info

Message Text

LDP received an Initialization Message. Local LDPID: `%localLsrId%:%localLabelSpaceId%`, Peer LDPID: `%peerLsrId%:%peerLabelSpaceId%`, Ent Idx: `%entityIndex%`, Role: `%role%`, I/F Idx: `%ifIndex%`, Sess Addr: `%sessAddress%`.

Message Parameters

Name	Type
localLsrId	srcIP
localLabelSpaceId	uInt16
peerLsrId	dstIP
peerLabelSpaceId	uInt16
entityIndex	uInt32
role	String
ifIndex	sInt32
sessAddress	IP

MPLS.LDP.TxInitializationMsg

Description

LDP sent an Initialization Message.

Remedy

This log is for informational purposes only.

Severity

Info

Message Text

LDP sent an Initialization Message. Local LDPID: `%localLsrId%:%localLabelSpaceId%`, Peer LDPID: `%peerLsrId%:%peerLabelSpaceId%`, Ent Idx: `%entityIndex%`, Role: `%role%`, I/F Idx: `%ifIndex%`, Sess Addr: `%sessAddress%`.

Message Parameters

Name	Type
localLsrId	srcIP
localLabelSpaceId	uInt16
peerLsrId	dstIP
peerLabelSpaceId	uInt16
entityIndex	uInt32
role	String

Name	Type
ifIndex	sInt32
sessAddress	IP

MPLS.LDP.RxKeepAliveMsg

Description

LDP received a KeepAlive Message.

Remedy

This log is for informational purposes only.

Severity

Info

Message Text

LDP received a KeepAlive Message. Local LDPID: `%localLsrId%:%localLabelSpaceId%`, Peer LDPID: `%peerLsrId%:%peerLabelSpaceId%`, Ent Idx: `%entityIndex%`, Role: `%role%`, I/F Idx: `%ifIndex%`, Sess Addr: `%sessAddress%`.

Message Parameters

Name	Type
localLsrId	srcIP
localLabelSpaceId	uInt16
peerLsrId	dstIP
peerLabelSpaceId	uInt16
entityIndex	uInt32
role	String
ifIndex	sInt32
sessAddress	IP

MPLS.LDP.TxKeepAliveMsg

Description

LDP sent a KeepAlive Message.

Remedy

This log is for informational purposes only.

Severity

Info

Message Text

LDP sent a KeepAlive Message. Local LDPID: `%localLsrId%`:`%localLabelSpaceId%`, Peer LDPID: `%peerLsrId%`:`%peerLabelSpaceId%`, Ent Idx: `%entityIndex%`, Role: `%role%`, I/F Idx: `%ifIndex%`, Sess Addr: `%sessAddress%`.

Message Parameters

Name	Type
localLsrId	srcIP
localLabelSpaceId	uInt16
peerLsrId	dstIP
peerLabelSpaceId	uInt16
entityIndex	uInt32
role	String
ifIndex	sInt32
sessAddress	IP

MPLS.LDP.SessnUp

Description

An LDP Session came Up.

Remedy

This log is for informational purposes only.

Severity

Info

Message Text

LDP session came Up. Local LDPID: `%localLsrId%:%localLabelSpaceId%`, Peer LDPID: `%peerLsrId%:%peerLabelSpaceId%`, Ent Idx: `%entityIndex%`, Role: `%role%`, I/F Idx: `%ifIndex%`, Sess Addr: `%sessAddress%`.

Message Parameters

Name	Type
localLsrId	srcIP
localLabelSpaceId	uInt16
peerLsrId	dstIP
peerLabelSpaceId	uInt16
entityIndex	uInt32
role	String
ifIndex	sInt32
sessAddress	IP

MPLS.LDP.SessnDown

Description

An LDP sesssion went Down. See the MPLS.LDP.ProtocolError log for more information regarding why the session went Down.

Remedy

This log is for informational purposes only.

Severity

Info

Message Text

LDP session went Down. Local LDPID: `%localLsrId%:%localLabelSpaceId%`, Peer LDPID: `%peerLsrId%:%peerLabelSpaceId%`, Ent Idx: `%entityIndex%`, Role: `%role%`, I/F Idx: `%ifIndex%`, Sess Addr: `%sessAddress%`.

Message Parameters

Name	Type
localLsrId	srcIP
localLabelSpaceId	uInt16
peerLsrId	dstIP
peerLabelSpaceId	uInt16
entityIndex	uInt32
role	String
ifIndex	sInt32
sessAddress	IP

MPLS.LDP.ProtocolError

Description

This message can provide details on other LDP events and messages by displaying status codes associated with those events.

Remedy

This log is for informational purposes only.

Severity

Info

Message Text

LDP protocol error. Local LDPID: `%localLsrId%:%localLabelSpaceId%`, Peer LDPID: `%peerLsrId%:%peerLabelSpaceId%`, Ent Idx: `%entityIndex%`, Role: `%role%`, I/F Idx: `%ifIndex%`, Sess Addr: `%sessAddress%`, Status: `%statusCodeStr%` (`%statusCode%`).

Message Parameters

Name	Type
localLsrId	srcIP
localLabelSpaceId	uInt16
peerLsrId	dstIP
peerLabelSpaceId	uInt16
entityIndex	uInt32
role	String

Name	Type
ifIndex	sInt32
sessAddress	IP
statusCode	xInt32
statusCodeStr	String

MPLS.LDP.LogSessnMsgFail

Description

Due to the reason specified, a log message for an LDP session was not generated. LDP functionality should not be impacted.

Remedy

There is no workaround for this issue.

Severity

Warning

Message Text

A log for a `%direction%` session message was not generated: `%reason%`. Local LDPID: `%ldpid%`, Peer LDPID: `%peerldpid%`, Entity Index: `%entidx%`.

Message Parameters

Name	Type
direction	String
ldpid	String
peerldpid	String
entidx	uInt32
reason	String

MPLS.LDP.ChgProtoState

Description

This event occurs when the LDP protocol changes state. The valid states for the LDP protocol are "Enabled", "Enabling", "Disabled", and "Disabling".

Remedy

No action required - Informational message only.

Severity

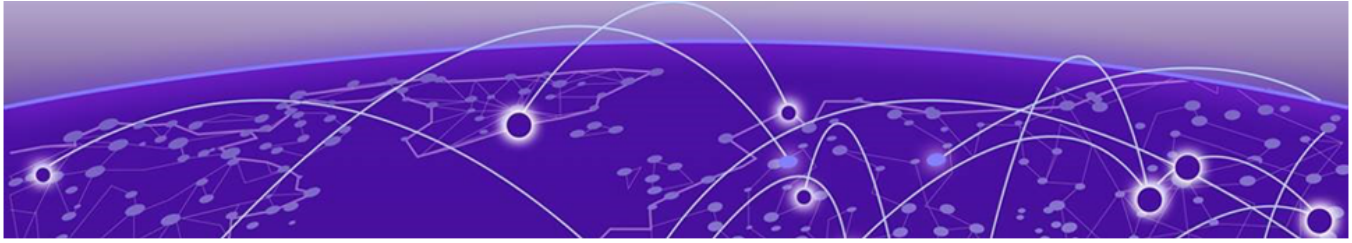
Info

Message Text

LDP protocol changed state from `%prevState%` to `%curState%`.

Message Parameters

Name	Type
prevState	String
curState	String



MPLS.Ping Messages

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MPLS.Ping.DebugSummary on page 3264
MPLS.Ping.DebugVerbose on page 3265
MPLS.Ping.DebugData on page 3265
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MPLS.Ping.pingPacketReceived on page 3267
MPLS.Ping.pingOpenSocketError on page 3268
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MPLS.Ping.pingParseError on page 3269
MPLS.Ping.pingReply on page 3270
MPLS.Ping.dispatch on page 3271
MPLS.Ping.pingPacketNotEgress on page 3271
MPLS.Ping.pingUnknownPingId on page 3272
MPLS.Ping.pingRx on page 3272
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MPLS.Ping.pingTxOAM on page 3273
MPLS.Ping.pingTxEcho on page 3274
MPLS.Ping.SetIPSockOptFail on page 3274
MPLS.Ping.SetMPLSSockOptFail on page 3275
MPLS.Ping.ParmNull on page 3276
MPLS.Ping.SendEchoReplyFail on page 3276
MPLS.Ping.RxMPLSOAMPktSmall on page 3277
MPLS.Ping.RxMPLSOAMPktTLVSmall on page 3277
MPLS.Ping.RxMPLSOAMPktFECSmall on page 3278
MPLS.Ping.RxMPLSOAMPktFECTypeUnk on page 3278
MPLS.Ping.RxMPLSOAMPktTLVTypeUnk on page 3279
MPLS.Ping.RxMPLSOAMPktProtUnk on page 3280
MPLS.Ping.RxMPLSOAMPktIPVerUnk on page 3280
MPLS.Ping.RxMPLSOAMPktIPProtUnk on page 3281
MPLS.Ping.FndLSPForFECFail on page 3281
MPLS.Ping.RxMPLSOAMPktLabExcd on page 3282
MPLS.Ping.FndLSPByNameFail on page 3283

MPLS.Ping.AppndDownstrmMapLenInv on page 3283
MPLS.Ping.RxMPLSOAMPktIPv4Small on page 3284

MPLS.Ping.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.Ping.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.Ping.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.Ping.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.Ping.Entry

Description

function entry

Remedy

none

Severity

Debug-Verbose

Message Text

```
%function%
```

Message Parameters

Name	Type
function	String

MPLS.Ping.Exit

Description

Function exit

Remedy

none

Severity

Debug-Verbose

Message Text

`%function%`

Message Parameters

Name	Type
function	String

MPLS.Ping.pingPacketReceived

Description

An incomming MPLS echo packet from the mentioned socket was received.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Summary

Message Text

MPLS packet from `%sip%:%spo%` on socket `%sock%-%vrid%` type `%type%` code `%code%`

Message Parameters

Name	Type
sip	srcIP
spo	srcL4port
sock	sInt
vrid	uInt

Name	Type
type	uInt
code	uInt

MPLS.Ping.pingOpenSocketError

Description

Unable to open MPLS socket. This may prevent either an echo request or an echo reply from either being sent or received.

Remedy

There is no workaround; however, this problem is usually transient and should not persist.

Severity

Error

Message Text

Unable to open an MPLS socket `%sock%` to `%ip%:%port%` error `%err%`

Message Parameters

Name	Type
sock	sInt
ip	SockAddr
port	uInt
err	sInt

MPLS.Ping.pingBindError

Description

Can't bind MPLS socket to local address or port. This may prevent either an echo request or an echo reply from either being sent or received.

Remedy

There is no workaround; however, this problem is usually transient and should not persist.

Severity

Error

Message Text

Unable to bind MPLS socket `%sock%` to `%ip%:%port%` error `%err%`

Message Parameters

Name	Type
sock	sInt
ip	SockAddr
port	uInt
err	sInt

MPLS.Ping.pingReceiveError

Description

An error was encountered while processing a received ping packet.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Debug-Verbose

Message Text

Error parsing received ping packet.

MPLS.Ping.pingParseError

Description

An error was encountered while parsing a received MPLS ping packet.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Debug-Verbose

Message Text

Error in MPLS OAM packet.

MPLS.Ping.pingReply

Description

A valid echo reply was received for an outstanding ping request. Enable the pingReply message to see details on the source of the echo reply.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Summary

Message Text

Echo reply; `%size%` bytes from `%from%`: mpls_seq=`%seq%` ttl=`%ttl%` [`%secNow%.%usecNow%` - `%secSend%.%usecSend%`]

Message Parameters

Name	Type
size	uInt
from	srcIP
seq	uInt
ttl	uInt
secNow	uInt
usecNow	uInt
secSend	uInt
usecSend	uInt

MPLS.Ping.dispatch

Description

Could not add the specified socket to the dispatcher. This may prevent either an echo request or an echo reply from being received.

Remedy

There is no workaround; however, this problem is usually transient and should not persist.

Severity

Error

Message Text

Failed to add socket `%socket%-%type%` with VrID `%vrid%` to dispatcher.

Message Parameters

Name	Type
vrid	sInt
socket	sInt
type	uInt

MPLS.Ping.pingPacketNotEgress

Description

An incomming MPLS ping reply packet was received, but the sender was not the egress.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Summary

Message Text

MPLS ping reply packet received, but sender was not egress.

MPLS.Ping.pingUnknownPingId

Description

A ping reply message was received for an unknown ping ID. This may happen normally when a ping is stopped before the reply is received.

Remedy

If the reply is not for a ping which was recently terminated, try to narrow down the sender and prevent the invalid reply from being sent.

Severity

Debug-Verbose

Message Text

Unable to located ping ID `%id%` in ping reply.

Message Parameters

Name	Type
id	uInt

MPLS.Ping.pingRx

Description

Dumps the pkt when received.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Received ping packet: addr `%pdu%` of len `%len%`

Message Parameters

Name	Type
pdu	Buf-ptr
len	Buf-len

MPLS.Ping.pingTxIP

Description

Dumps the pkt when transmitted.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Transmit ping packet, IP Header: addr `%pdu%` of len `%len%`

Message Parameters

Name	Type
pdu	Buf-ptr
len	Buf-len

MPLS.Ping.pingTxOAM

Description

Dumps the pkt when transmitted.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Transmit ping packet, OAM Data: addr `%pdu%` of len `%len%`

Message Parameters

Name	Type
pdu	Buf-ptr
len	Buf-len

MPLS.Ping.pingTxEcho

Description

Dumps the pkt when transmitted.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Transmit ping echo reply: addr `%pdu%` of len `%len%`

Message Parameters

Name	Type
pdu	Buf-ptr
len	Buf-len

MPLS.Ping.SetIPSockOptFail

Description

The specified IP socket option was not set correctly on the socket used to send an echo reply. This may result in the echo reply not being sent, delivered, or processed correctly.

Remedy

There is no workaround; however, this problem is usually transient and should not persist.

Severity

Warning

Message Text

Failed to set IP sockopt (`%opt%`) on echo reply socket `%sck%`.

Message Parameters

Name	Type
opt	String
sck	sInt

MPLS.Ping.SetMPLSSockOptFail

Description

The specified MPLS socket option was not set correctly on the socket used to send an echo request. This may result in the echo request not being sent, delivered, or processed correctly.

Remedy

There is no workaround; however, this problem is usually transient and should not persist.

Severity

Warning

Message Text

Failed to set MPLS sockopt (`%opt%`) on echo request socket `%sck%`.

Message Parameters

Name	Type
opt	String
sck	sInt

MPLS.Ping.ParmNull

Description

The specified function received a parameter that was unexpectedly NULL and will not be able to continue processing the request.

Remedy

There is no workaround for this condition; however, this problem may be transient.

Severity

Error

Message Text

An unexpected NULL parameter was received by `%func%`.

Message Parameters

Name	Type
func	String

MPLS.Ping.SendEchoReplyFail

Description

An attempt to send an echo reply on the specified socket failed.

Remedy

This problem typically occurs due to network connectivity issues. Once the network issues are corrected, this problem should no longer occur.

Severity

Error

Message Text

Failed to send an echo reply on socket `%sck%` (errno=`%err%`).

Message Parameters

Name	Type
sck	sInt
err	sInt

MPLS.Ping.RxMPLSOAMPktSmall

Description

An MPLS OAM packet was received that was too small to contain a ping header. This could happen due to packet corruption or mis-classification. When this log is generated, the received packet is dropped.

Remedy

If the problem persists, narrow down which packet causes the log to be generated and then determine if the packet is corrupted or being mis-classified as an MPLS OAM packet.

Severity

Warning

Message Text

An MPLS OAM packet was received that was too small to contain a ping header.

MPLS.Ping.RxMPLSOAMPktTLVSmall

Description

An MPLS OAM packet was received that was too small to contain all the parsed TLV headers. This could happen due to packet corruption or mis-classification. When this log is generated, the received packet is dropped.

Remedy

If the problem persists, narrow down which packet causes the log to be generated and then determine if the packet is corrupted or being mis-classified as an MPLS OAM packet.

Severity

Warning

Message Text

An MPLS OAM packet was received that was too small to contain all the parsed TLV headers.

MPLS.Ping.RxMPLSOAMPktFECSmall

Description

An MPLS OAM packet was received that was too small to contain a ping FEC TLV. This could happen due to packet corruption or mis-classification. When this log is generated, the received packet is dropped.

Remedy

If the problem persists, narrow down which packet causes the log to be generated and then determine if the packet is corrupted or being mis-classified as an MPLS OAM packet.

Severity

Warning

Message Text

An MPLS OAM packet was received that was too small to contain a ping FEC TLV.

MPLS.Ping.RxMPLSOAMPktFECTypeUnk

Description

An MPLS OAM packet was received with an unknown FEC Type. This could happen due to packet corruption, mis-classification, or interoperability issues. When this log is generated, the received packet is dropped.

Remedy

If the problem persists, narrow down which packet causes the log to be generated and then determine if the packet is corrupted or being mis-classified as an MPLS OAM packet. If the packet is a valid MPLS OAM packet, the problem could be due to another node sending an unsupported FEC type.

Severity

Warning

Message Text

An MPLS OAM packet was received with an unknown FEC Type (`%type%`).

Message Parameters

Name	Type
type	uInt16

MPLS.Ping.RxMPLSOAMPktTLVTypeUnk

Description

An MPLS OAM packet was received with an unknown TLV Type. This could happen due to packet corruption, mis-classification, or interoperability issues. When this log is generated, the received packet is dropped.

Remedy

If the problem persists, narrow down which packet causes the log to be generated and then determine if the packet is corrupted or being mis-classified as an MPLS OAM packet. If the packet is a valid MPLS OAM packet, the problem could be due to another node sending an unsupported TLV type.

Severity

Warning

Message Text

An MPLS OAM packet was received with an unknown TLV Type (`%type%`).

Message Parameters

Name	Type
type	uInt16

MPLS.Ping.RxMPLSOAMPktProtUnk

Description

An MPLS OAM packet was received for an unknown protocol. This could happen due to packet corruption, mis-classification, or interoperability issues. When this log is generated, the received packet is dropped.

Remedy

If the problem persists, narrow down which packet causes the log to be generated and then determine if the packet is corrupted or being mis-classified as an MPLS OAM packet. If the packet is a valid MPLS OAM packet, the problem could be due to another node using an unsupported protocol.

Severity

Warning

Message Text

An MPLS OAM packet was received for an unknown protocol (`%prot%`).

Message Parameters

Name	Type
prot	uInt16

MPLS.Ping.RxMPLSOAMPktIPVerUnk

Description

An MPLS OAM packet was received for an unknown IP version. This could happen due to packet corruption, mis-classification, or interoperability issues. When this log is generated, the received packet is dropped.

Remedy

If the problem persists, narrow down which packet causes the log to be generated and then determine if the packet is corrupted or being mis-classified as an MPLS OAM packet. If the packet is a valid MPLS OAM packet, the problem could be due to another node using an unsupported IP version.

Severity

Warning

Message Text

An MPLS OAM packet was received for an unknown IP version (`%ver%`).

Message Parameters

Name	Type
ver	uInt8

MPLS.Ping.RxMPLSOAMPktIPProtUnk

Description

An MPLS OAM packet was received with an unknown IP protocol version. This could happen due to packet corruption, mis-classification, or interoperability issues. When this log is generated, the received packet is dropped.

Remedy

If the problem persists, narrow down which packet causes the log to be generated and then determine if the packet is corrupted or being mis-classified as an MPLS OAM packet. If the packet is a valid MPLS OAM packet, the problem could be due to another node using an unsupported IP protocol.

Severity

Warning

Message Text

An MPLS OAM packet was received with an unknown IP protocol version (`%prot%`).

Message Parameters

Name	Type
prot	uInt8

MPLS.Ping.FndLSPForFECFail

Description

While attempting to send an echo request, the LSP originally selected is no longer available and the echo request will not be sent.

Remedy

This is a transient condition and the OAM request should be tried again when that LSP or another LSP becomes available.

Severity

Warning

Message Text

Unable to find an LSP for FEC `%dest%`/`%mask%`.

Message Parameters

Name	Type
dest	dstIP
mask	IPmasklen

MPLS.Ping.RxMPLSOAMPktLabExcd

Description

An MPLS OAM packet was received with more than the maximum number of labels allowed. This packet will be dropped and an echo reply will not be sent.

Remedy

Determine how an MPLS OAM packet was received with a number of labels greater than the maximum supported and take corrective action to ensure a smaller number of labels are used in the encapsulation path(s).

Severity

Warning

Message Text

An MPLS OAM packet was received with more than `%maxNumLab%` labels.

Message Parameters

Name	Type
maxNumLab	uInt

MPLS.Ping.FndLSPByNameFail

Description

While attempting to append downstream mappings to an echo request, the named LSP information is no longer available. As a result, the downstream mappings will not be added.

Remedy

This is a transient condition and the OAM request should be tried again when that LSP or another LSP becomes available.

Severity

Warning

Message Text

Unable to find an LSP named `%lspName%` (`%reason%`).

Message Parameters

Name	Type
lspName	String
reason	sInt

MPLS.Ping.AppndDownstrmMapLenInv

Description

The downstream mapping for an MPLS OAM packet was not appended due to an invalid length specified for the mapping TLV.

Remedy

This is a transient condition and the request should be tried again.

Severity

Warning

Message Text

The downstream mapping for an MPLS OAM packet was not appended due to an invalid length (`%len%`).

Message Parameters

Name	Type
len	uInt32

MPLS.Ping.RxMPLSOAMPktIPv4Small

Description

An MPLS OAM packet was received that was too small to contain a ping IPv4 prefix FEC TLV. This could happen due to packet corruption or mis-classification. When this log is generated, the received packet is dropped.

Remedy

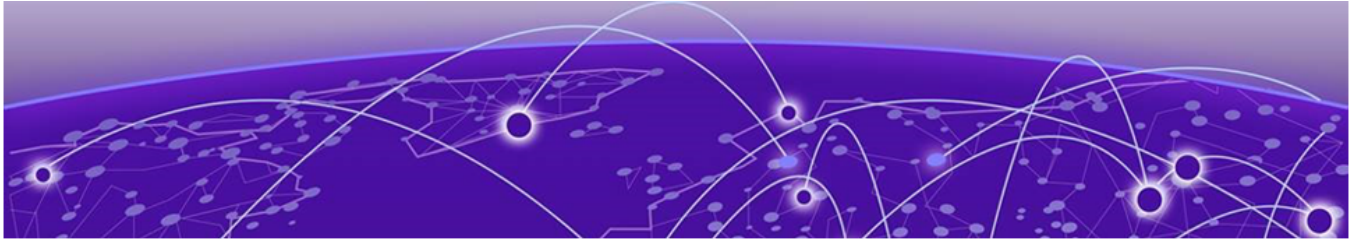
If the problem persists, narrow down which packet causes the log to be generated and then determine if the packet is corrupted or being mis-classified as an MPLS OAM packet.

Severity

Warning

Message Text

An MPLS OAM packet was received that was too small to contain a ping IPv4 prefix FEC TLV.



MPLS.RSVPTE Messages

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MPLS.RSVPTE.InternalDev

Description

MPLS RSVP-TE Internal development log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id% (%sub_code%) %str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.RSVPTE.InternalAudit

Description

MPLS RSVP-TE Internal development audit log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id% (%sub_code%) %str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.RSVPTE.InternalExcept

Description

MPLS RSVP-TE Internal development exception log messages

Remedy

Development Informational Only

Severity

Notice

Message Text

`%process_type%-%sub_id% (%sub_code%) %str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.RSVPTE.InternalProb

Description

MPLS RSVP-TE Internal development problem log messages

Remedy

Development Informational Only

Severity

Warning

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.RSVPTE.ChgIngrLSPState

Description

This event occurs when an ingress MPLS RSVP-TE LSP changes state. The valid states for an MPLS RSVP-TE LSP are "Up" and "Down". This event also contains relevant information about the LSP at the time of the state change, such as the MPLS label.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

LSP \"%lspName%\" using Path \"%lspPath%\" changed
state from %prevState% to %curState%. Source=%srcIpAddr%,
Destination=%destIpAddr%, TunnelId=%tunnelId%, LSPId=%lspId%, Active=%isActive%,
ReceivedLabel=%rcvdLabel%, NextHopIf=%nexthopIf%, NextHopAddr=%nexthopAddr%

Message Parameters

Name	Type
lspName	String
lspPath	String
srcIpAddr	IP
destIpAddr	IP
tunnelId	uInt32
lspId	uInt32
prevState	String
curState	String
isActive	String
rcvdLabel	xInt32
nexthopIf	String
nexthopAddr	IP

MPLS.RSVPTE.ChgProtoState

Description

This event occurs when the RSVP-TE protocol changes state. The valid states for the RSVP-TE protocol are "Enabled", "Enabling", "Disabled", and "Disabling".

Remedy

No action required - Informational message only.

Severity

Info

Message Text

RSVP-TE protocol changed state from `%prevState%` to `%curState%`.

Message Parameters

Name	Type
prevState	String
curState	String

MPLS.RSVPTE.LSPPathActv

Description

This event occurs when the active path for an ingress MPLS RSVP-TE LSP changes. This event also contains relevant information about the LSP and path, as well as the previously active path.

Remedy

No action required - Informational message only.

Severity

Info

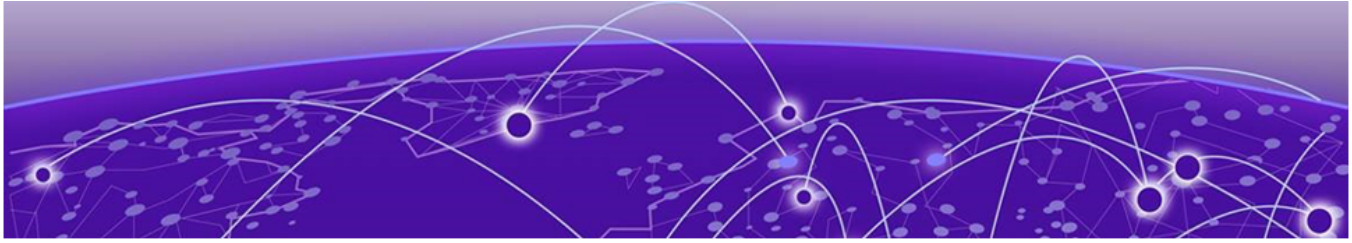
Message Text

Path \"`%lspPath%`\" has become the active path for LSP \"`%lspName%` \". Source=`%srcIpAddr%`, Destination=`%destIpAddr%`, TunnelId=`%tunnelId%`, LSPId=`%lspId%`, ReceivedLabel=`%rcvdLabel%`, NextHopIf=`%nexthopIf%`, NextHopAddr=`%nexthopAddr%`. The previously active path was \"`%prevLspPath%`\".

Message Parameters

Name	Type
lspName	String
lspPath	String
prevLspPath	String
srcIpAddr	IP

Name	Type
destIpAddr	IP
tunnelId	uInt32
lspId	uInt32
rcvdLabel	xInt32
nexthopIf	String
nexthopAddr	IP



MPLS.RtMgr Messages

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MPLS.RtMgr.QueueStatus

Description

Queue status information for RTMGR messages sent to MPLS

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

MPLS.RtMgr.RegisterFailed

Description

No description is available.

Remedy

No remedy is available.

Severity

Critical

Message Text

Failed to register with Rtmgr

MPLS.RtMgr.RtMgrStatus

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

MPLS.RtMgr.FSMStatus

Description

Internal FSM status

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

MPLS.RtMgr.QueryResponse

Description

Normal query response from RTMGR

Remedy

No remedy is available.

Severity

Info

Message Text

RtMgr response `%route%`/`%netmask%` -> `%gw%` (interface=`%interface%`)

Message Parameters

Name	Type
route	IP
gw	IP
netmask	uInt32
interface	uInt32

MPLS.RtMgr.RouteUpdate

Description

Normal route update

Remedy

No remedy is available.

Severity

Info

Message Text

`%code%` `%route%`/`%netmask%` (origin=`%origin%`, VNH#=`%numValidNextHop%`, NH#=`%numNextHop%`, nh1=`%nh%`, ig=`%ig%` eg=`%eg%`)

Message Parameters

Name	Type
route	IP
netmask	uInt16
origin	uInt16
numValidNextHop	uInt8
numNextHop	uInt8
ig	uInt32
eg	uInt32
code	String
nh	IP

MPLS.RtMgr.NonTEQuery

Description

Diagnostic log message informing the user than a RSVP-TE query to CSPF that was unconstrained has been routed to RtMgr instead of being processed by CSPF.

Remedy

N/A

Severity

Info

Message Text

CSPF non-TE query for `%addr%` redirected to RtMgr

Message Parameters

Name	Type
addr	IP

MPLS.RtMgr.RawRouteUpdate

Description

Normal route update

Remedy

No remedy is available.

Severity

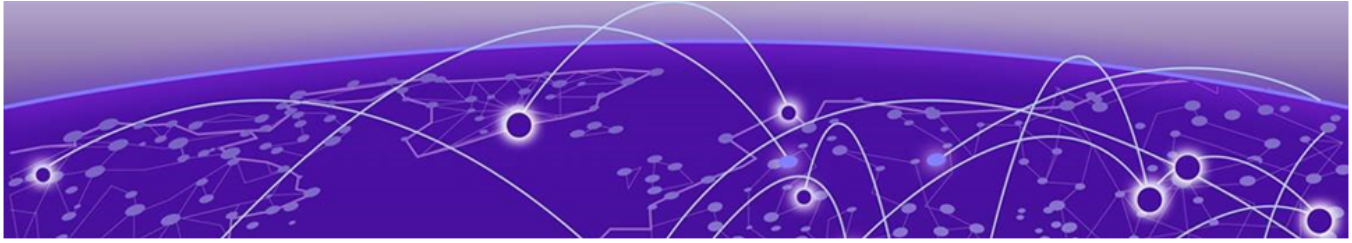
Debug-Data

Message Text

route=`%route%`/`%netmask%`, flags=`%flags%`, origin=`%origin%`, VNH#=`%numValidNextHop%`, NH#=`%numNextHop%`, nh1=`%nh%`

Message Parameters

Name	Type
route	IP
netmask	uInt16
origin	uInt16
numValidNextHop	uInt8
numNextHop	uInt8
flags	xInt32
nh	IP



MPLS.SCK Messages

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MPLS.SCK.DumpRsvpHdr on page 3313
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MPLS.SCK.PathErrObjs on page 3327
MPLS.SCK.ResvErrObjs on page 3328
MPLS.SCK.PathTearObjs on page 3329
MPLS.SCK.ResvTearObjs on page 3329
MPLS.SCK.ConfirmObjs on page 3330
MPLS.SCK.HelloObjs on page 3331
MPLS.SCK.PathRsvpIpHdr on page 3332
MPLS.SCK.ResvRsvpIpHdr on page 3333
MPLS.SCK.PathErrIpHdr on page 3334
MPLS.SCK.ResvErrIpHdr on page 3335
MPLS.SCK.PathTearIpHdr on page 3335
MPLS.SCK.ResvTearIpHdr on page 3336
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MPLS.SCK.Open

Description

This is a trace of the MPLS socket (SCK) open request interface used by LDP and RSVP protocols. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Open socket descriptor = `%socketID%`. `%msg1%` = `%addrFam%`. `%msg2%` = `%mplsProt%`. `%msg3%` = `%sock_type%`

Message Parameters

Name	Type
socketID	sInt
addrFam	String
mplsProt	String
sock_type	String
msg1	String
msg2	String
msg3	String

MPLS.SCK.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

MPLS.SCK.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.SCK.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.SCK.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.SCK.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.SCK.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.SCK.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

MPLS.SCK.OpenError

Description

A problem has been detected which is interfering with the normal operation of the system or the MPLS network. The system is not functioning as expected. Theproblem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

SocketID = `%socketID%`. `%msg4%` = `%retcode%`. `%msg1%` = `%addrFam%`. `%msg2%` = `%mplsProt%`. `%msg3%` = `%sock_type%`

Message Parameters

Name	Type
socketID	sInt
addrFam	String
mplsProt	String
sock_type	String
msg1	String
msg2	String
msg3	String
retcode	sInt32
msg4	String

MPLS.SCK.XmitData

Description

This is a trace of the MPLS socket (SCK) data transmit request interface used by LDP and RSVP protocols. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Socket descr. = `%socketID%`. \n ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. \n port = `%dst_port%`. out if = `%out_if%`. size = `%data_size%`. \n protocol = `%mpls_prot%`.

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
dst_port	uInt16

Name	Type
data_size	uInt32
mpls_prot	String
out_if	String

MPLS.SCK.DumpLdpHdr

Description

This is a trace of the MPLS socket (SCK) data transmit request interface used by the LDP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

LDP Header: version = `%ldp_version%`. PDU length = `%ldp_length%`. LDP identifier(octets 4-7) = `%identifier_octet4_7%`. LDP identifier(octets 8-9) = `%identifier_octet8_9%`. Socket Descr. = `%socketID%`

Message Parameters

Name	Type
ldp_version	uInt16
ldp_length	uInt16
identifier_octet4_7	uInt32
identifier_octet8_9	uInt16
socketID	sInt

MPLS.SCK.DumpLdpHello

Description

This is a trace of the MPLS socket (SCK) Hello message request interface used by the LDP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

LDP Hello Hdr: U bit = `%u_bit%`. Msg type = `%msg_type%`. Msg length = `%msg_length%`. Msg id = `%hl_message_id%`. Hold time = `%hl_hold_time%`. `%T_R_bits%`. Socket Descr. = `%socketID%`.

Message Parameters

Name	Type
u_bit	String
msg_type	uInt16
msg_length	uInt16
hl_message_id	uInt32
hl_hold_time	sInt
T_R_bits	String
socketID	sInt

MPLS.SCK.DumpLdpHelloOpt

Description

This is a trace of the MPLS socket (SCK) Hello (optional parameters) message request interface used by the LDP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Hello optional params: %type_desc% = %msg_type% Option value length = %msg_length%. Option value = %msg_value%. Socket Descr. = %socketID%.

Message Parameters

Name	Type
msg_type	uInt16
msg_length	uInt16
msg_value	String
type_desc	String
socketID	sInt

MPLS.SCK.XmitError

Description

A problem has been detected which is interfering with the normal operation of the system or the MPLS network. The system is not functioning as expected. Theproblem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Debug-Summary

Message Text

SocketID = %socketID%. %msg4% = %retcode%. %msg1% = %addrFam%. %msg2% = %mplsProt%. %msg3% = %sock_type%

Message Parameters

Name	Type
socketID	sInt
addrFam	String
mplsProt	String
sock_type	String

Name	Type
msg1	String
msg2	String
msg3	String
retcode	sInt32
msg4	String

MPLS.SCK.XmitDataErr

Description

This is a trace of the MPLS socket (SCK) data transmit request interface used by LDP and RSVP protocols. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Socket descr. = `%socketID%`. \n ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. \n port = `%dst_port%`. out if = `%out_if%`. size = `%data_size%`. \n protocol = `%mpls_prot%`.

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
dst_port	uInt16
data_size	uInt32
mpls_prot	String
out_if	String

MPLS.SCK.InternalDev

Description

MPLS Sockets Internal development log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id% (%sub_code%) %str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.SCK.InternalAudit

Description

MPLS Sockets Internal development audit log messages

Remedy

Development Informational Only

Severity

Debug-Verbose

Message Text

`%process_type%-%sub_id% (%sub_code%) %str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.SCK.InternalExcept

Description

MPLS Sockets Internal development exception log messages

Remedy

Development Informational Only

Severity

Notice

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.SCK.InternalProb

Description

MPLS Sockets Internal development problem log messages

Remedy

Development Informational Only

Severity

Debug-Summary

Message Text

`%process_type%-%sub_id%` (`%sub_code%`) `%str%`

Message Parameters

Name	Type
process_type	xInt32
sub_id	uInt
sub_code	sInt
str	String

MPLS.SCK.SetSockOpt

Description

This is a trace of the MPLS socket (SCK) options request interface used by LDP and RSVP protocols. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Option socket descriptor = `%socketID%`. `%msg1%` = `%mplsProt%`. `%msg2%` = `%sock_type%`. `%msg3%` = `%protLevel%`. Option name = `%optName%`. `%msg4%` = `%optValue%` .

Message Parameters

Name	Type
socketID	sInt
optValue	uInt32
mplsProt	String
sock_type	String

Name	Type
protLevel	String
optName	String
msg1	String
msg2	String
msg3	String
msg4	String

MPLS.SCK.DumpRsvpIpHdr

Description

This is a trace of the MPLS socket (SCK) data transmit request interface used by LDP and RSVP protocols. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Socket descr. = `%socketID%`. ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. msg type = `%rsvp_type%` ip TOS = `%tos%`. ip pkt len = `%tot_ip_len%`. ip TTL = `%pkt_ttl%`. router alert = `%router_alert%`

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String

MPLS.SCK.DumpRsvpHdr

Description

This is a trace of the MPLS socket (SCK) data request interface used byRSVP protocols. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. msg type = `%rsvp_type%`. version = `%rsvp_ver%` length = `%rsvp_len%` rsvp chksum = `%cksum%` src = `%src_addr%`. dest = `%dst_addr%`.

Message Parameters

Name	Type
socketID	sInt
rsvp_type	String
rsvp_ver	uInt
rsvp_len	uInt16
cksum	String
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String

MPLS.SCK.DumpRsvpObject

Description

This is a trace of the MPLS socket (SCK) data transmit request interface used byRSVP protocols. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Socket descr. = `%socketID%`. chksum = `%rsvp_cksum%` msg type = `%msg_type%`. obj type = `%obj_type%` obj length = `%obj_len%` obj class = `%obj_class%` obj ctype = `%obj_ctype%`. dataptr = `%obj_ptr%` datalen = `%data_len%`.

Message Parameters

Name	Type
socketID	sInt
rsvp_cksum	String
msg_type	String
obj_type	String
obj_len	uInt16
obj_class	uInt
obj_ctype	uInt
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.RcvData

Description

This is a trace of the MPLS socket (SCK) data receive interface used by LDP and RSVP protocols. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Socket descr. = `%socketID%`. \n ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. \n port = `%dst_port%`. out if = `%out_if%`. size = `%data_size%`. \n protocol = `%mpls_prot%`.

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
dst_port	uInt16
data_size	uInt32
mpls_prot	String
out_if	String

MPLS.SCK.DumpRxRsvpIpHdr

Description

This is a trace of the MPLS socket (SCK) data receive interface used by the RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Socket descr. = `%socketID%`. ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. msg type = `%rsvp_type%` ip TOS = `%tos%`. ip pkt len = `%tot_ip_len%`. ip TTL = `%pkt_ttl%`. router alert = `%router_alert%`

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String

Name	Type
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String

MPLS.SCK.DumpRxRsvpHdr

Description

This is a trace of the MPLS socket (SCK) data interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. msg type = `%rsvp_type%`. version = `%rsvp_ver%` length = `%rsvp_len%` rsvp chksum = `%cksum%` src = `%src_addr%`. dest = `%dst_addr%`.

Message Parameters

Name	Type
socketID	sInt
rsvp_type	String
rsvp_ver	uInt
rsvp_len	uInt16
cksum	String
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String

MPLS.SCK.DumpRxRsvpObj

Description

This is a trace of the MPLS socket (SCK) data receive interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Socket descr. = `%socketID%`. chksum = `%rsvp_cksum%` msg type = `%msg_type%`. obj type = `%obj_type%` obj length = `%obj_len%` obj class = `%obj_class%` obj ctype = `%obj_ctype%`. dataptr = `%obj_ptr%`. datalen = `%data_len%`.

Message Parameters

Name	Type
socketID	sInt
rsvp_cksum	String
msg_type	String
obj_type	String
obj_len	uInt16
obj_class	uInt
obj_ctype	uInt
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.RsvpDataDump

Description

This is a trace of the MPLS socket (SCK) data receive interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Rsvp Raw Data Dump. dataptr = `%obj_ptr%`. datalen = `%data_len%`.

Message Parameters

Name	Type
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.PathRsvpHdr

Description

This is a trace of the MPLS socket (SCK) Path message data interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. msg type = `%rsvp_type%`. version = `%rsvp_ver%` length = `%rsvp_len%` rsvp chksum = `%cksum%` src = `%src_addr%`. dest = `%dst_addr%`.

Message Parameters

Name	Type
socketID	sInt
rsvp_type	String
rsvp_ver	uInt

Name	Type
rsvp_len	uInt16
cksum	String
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String

MPLS.SCK.ResvRsvpHdr

Description

This is a trace of the MPLS socket (SCK) Reserve message data interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. msg type = `%rsvp_type%`. version = `%rsvp_ver%` length = `%rsvp_len%` rsvp chksum = `%cksum%` src = `%src_addr%`. dest = `%dst_addr%`.

Message Parameters

Name	Type
socketID	sInt
rsvp_type	String
rsvp_ver	uInt
rsvp_len	uInt16
cksum	String
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String

MPLS.SCK.PathErrHdr

Description

This is a trace of the MPLS socket (SCK) Path error message data interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. msg type = `%rsvp_type%`. version = `%rsvp_ver%` length = `%rsvp_len%` rsvp chksum = `%cksum%` src = `%src_addr%`. dest = `%dst_addr%`.

Message Parameters

Name	Type
socketID	sInt
rsvp_type	String
rsvp_ver	uInt
rsvp_len	uInt16
cksum	String
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String

MPLS.SCK.ResvErrHdr

Description

This is a trace of the MPLS socket (SCK) Resv error message data interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%)Socket descr. = %socketID%. msg type = %rsvp_type%. version = %rsvp_ver% length = %rsvp_len% rsvp chksum = %cksum% src = %src_addr%. dest = %dst_addr%.

Message Parameters

Name	Type
socketID	sInt
rsvp_type	String
rsvp_ver	uInt
rsvp_len	uInt16
cksum	String
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String

MPLS.SCK.PathTearHdr

Description

This is a trace of the MPLS socket (SCK) Path Tear message data interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%)Socket descr. = %socketID%. msg type = %rsvp_type%. version = %rsvp_ver% length = %rsvp_len% rsvp chksum = %cksum% src = %src_addr%. dest = %dst_addr%.

Message Parameters

Name	Type
socketID	sInt
rsvp_type	String
rsvp_ver	uInt
rsvp_len	uInt16
cksum	String
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String

MPLS.SCK.ResvTearHdr

Description

This is a trace of the MPLS socket (SCK) Reserve Tear message data interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. msg type = `%rsvp_type%`. version = `%rsvp_ver%` length = `%rsvp_len%` rsvp chksum = `%cksum%` src = `%src_addr%`. dest = `%dst_addr%`.

Message Parameters

Name	Type
socketID	sInt
rsvp_type	String
rsvp_ver	uInt
rsvp_len	uInt16
cksum	String
src_addr	srcIPaddress

Name	Type
dst_addr	dstIPaddress
pkt_dir	String

MPLS.SCK.ConfirmRsvpHdr

Description

This is a trace of the MPLS socket (SCK) Confirm message data interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. msg type = `%rsvp_type%`. version = `%rsvp_ver%` length = `%rsvp_len%` rsvp chksum = `%cksum%` src = `%src_addr%`. dest = `%dst_addr%`.

Message Parameters

Name	Type
socketID	sInt
rsvp_type	String
rsvp_ver	uInt
rsvp_len	uInt16
cksum	String
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String

MPLS.SCK.HelloRsvpHdr

Description

This is a trace of the MPLS socket (SCK) Hello message data interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%)Socket descr. = %socketID%. msg type = %rsvp_type%. version = %rsvp_ver% length = %rsvp_len% rsvp chksum = %cksum% src = %src_addr%. dest = %dst_addr%.

Message Parameters

Name	Type
socketID	sInt
rsvp_type	String
rsvp_ver	uInt
rsvp_len	uInt16
cksum	String
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String

MPLS.SCK.PathObjs

Description

This is a trace of the MPLS Path message objects through the socket (SCK) interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%): src = %src_addr%. dst = %dst_addr%. chksum = %rsvp_cksum% obj type = %obj_type% obj length = %obj_len% obj class = %obj_class% obj ctype = %obj_ctype%. datalen = %data_len%.

Message Parameters

Name	Type
rsvp_cksum	String
obj_type	String
obj_len	uInt16
obj_class	uInt
obj_ctype	uInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.DumpRsvpObj

Description

This is a trace of the MPLS (x) message objects through the socket (SCK) interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%): src = %src_addr%. dst = %dst_addr%. chksum = %rsvp_cksum% obj type = %obj_type% obj length = %obj_len% obj class = %obj_class% obj ctype = %obj_ctype%. dataptr = %obj_ptr%. datalen = %data_len%.

Message Parameters

Name	Type
rsvp_cksum	String
obj_type	String
obj_len	uInt16
obj_class	uInt
obj_ctype	uInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.ResvObjs

Description

This is a trace of the MPLS Reserve message objects through the socket (SCK) interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`): src = `%src_addr%`. dst = `%dst_addr%`. chksum = `%rsvp_cksum%` obj type = `%obj_type%` obj length = `%obj_len%` obj class = `%obj_class%` obj ctype = `%obj_ctype%`. dataptr = `%obj_ptr%`. datalen = `%data_len%`.

Message Parameters

Name	Type
rsvp_cksum	String
obj_type	String
obj_len	uInt16
obj_class	uInt

Name	Type
obj_ctype	uInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.PathErrObjs

Description

This is a trace of the MPLS Path Error message objects through the socket (SCK) interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`): src = `%src_addr%`. dst = `%dst_addr%`. chksum = `%rsvp_cksum%` obj type = `%obj_type%` obj length = `%obj_len%` obj class = `%obj_class%` obj ctype = `%obj_ctype%`. dataptr = `%obj_ptr%`. datalen = `%data_len%`.

Message Parameters

Name	Type
rsvp_cksum	String
obj_type	String
obj_len	uInt16
obj_class	uInt
obj_ctype	uInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String

Name	Type
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.ResvErrObjs

Description

This is a trace of the MPLS Reserve Error message objects through the socket (SCK) interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`): src = `%src_addr%`. dst = `%dst_addr%`. chksum = `%rsvp_cksum%` obj type = `%obj_type%` obj length = `%obj_len%` obj class = `%obj_class%` obj ctype = `%obj_ctype%`. dataptr = `%obj_ptr%`. datalen = `%data_len%`.

Message Parameters

Name	Type
rsvp_cksum	String
obj_type	String
obj_len	uInt16
obj_class	uInt
obj_ctype	uInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.PathTearObjs

Description

This is a trace of the MPLS Path Tear message objects through the socket (SCK) interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`): src = `%src_addr%`. dst = `%dst_addr%`. chksum = `%rsvp_cksum%` obj type = `%obj_type%` obj length = `%obj_len%` obj class = `%obj_class%` obj ctype = `%obj_ctype%`. dataptr = `%obj_ptr%`. datalen = `%data_len%`.

Message Parameters

Name	Type
rsvp_cksum	String
obj_type	String
obj_len	uInt16
obj_class	uInt
obj_ctype	uInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.ResvTearObjs

Description

This is a trace of the MPLS Reserve Tear message objects through the socket (SCK) interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`): src = `%src_addr%`. dst = `%dst_addr%`. chksum = `%rsvp_cksum%` obj type = `%obj_type%` obj length = `%obj_len%` obj class = `%obj_class%` obj ctype = `%obj_ctype%`. dataptr = `%obj_ptr%`. datalen = `%data_len%`.

Message Parameters

Name	Type
rsvp_cksum	String
obj_type	String
obj_len	uInt16
obj_class	uInt
obj_ctype	uInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.ConfirmObjs

Description

This is a trace of the MPLS Confirm message objects through the socket (SCK) interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%): src = %src_addr%. dst = %dst_addr%. chksum = %rsvp_cksum% obj type = %obj_type% obj length = %obj_len% obj class = %obj_class% obj ctype = %obj_ctype%. dataptr = %obj_ptr%. datalen = %data_len%.

Message Parameters

Name	Type
rsvp_cksum	String
obj_type	String
obj_len	uInt16
obj_class	uInt
obj_ctype	uInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.HelloObjs

Description

This is a trace of the MPLS Hello message objects through the socket (SCK) interface used by RSVP protocol. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%): src = %src_addr%. dst = %dst_addr%. chksum = %rsvp_cksum% obj type = %obj_type% obj length = %obj_len% obj class = %obj_class% obj ctype = %obj_ctype%. dataptr = %obj_ptr%. datalen = %data_len%.

Message Parameters

Name	Type
rsvp_cksum	String
obj_type	String
obj_len	uInt16
obj_class	uInt
obj_ctype	uInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
pkt_dir	String
obj_ptr	Buf-ptr
data_len	Buf-len

MPLS.SCK.PathRsvpIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Path message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. msg type = `%rsvp_type%` ip TOS = `%tos%`. ip pkt len = `%tot_ip_len%`. ip TTL = `%pkt_ttl%`. router alert = `%router_alert%`

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress

Name	Type
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.ResvRsvpIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Reserve message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. msg type = `%rsvp_type%` ip TOS = `%tos%`. ip pkt len = `%tot_ip_len%`. ip TTL = `%pkt_ttl%`. router alert = `%router_alert%`

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt

Name	Type
router_alert	String
pkt_dir	String

MPLS.SCK.PathErrIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) interface used by RSVP Path Error message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. msg type = `%rsvp_type%` ip TOS = `%tos%`. ip pkt len = `%tot_ip_len%`. ip TTL = `%pkt_ttl%`. router alert = `%router_alert%`

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.ResvErrIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Reserve Error message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. msg type = `%rsvp_type%` ip TOS = `%tos%`. ip pkt len = `%tot_ip_len%`. ip TTL = `%pkt_ttl%`. router alert = `%router_alert%`

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.PathTearIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Path Tear message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%)Socket descr. = %socketID%. ips type = %ips_type%. src = %src_addr%. dest = %dst_addr%. msg type = %rsvp_type% ip TOS = %tos%. ip pkt len = %tot_ip_len%. ip TTL = %pkt_ttl%. router alert = %router_alert%

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.ResvTearIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Reserve Tear message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%)Socket descr. = %socketID%. ips type = %ips_type%. src = %src_addr%. dest = %dst_addr%. msg type = %rsvp_type% ip TOS = %tos%. ip pkt len = %tot_ip_len%. ip TTL = %pkt_ttl%. router alert = %router_alert%

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.ConfirmIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Confirm message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%)Socket descr. = %socketID%. ips type = %ips_type%. src = %src_addr%. dest = %dst_addr%. msg type = %rsvp_type% ip TOS = %tos%. ip pkt len = %tot_ip_len%. ip TTL = %pkt_ttl%. router alert = %router_alert%

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.DreqIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP DREQ message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. msg type = `%rsvp_type%` ip TOS = `%tos%`. ip pkt len = `%tot_ip_len%`. ip TTL = `%pkt_ttl%`. router alert = `%router_alert%`

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress

Name	Type
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.DrepIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP DREP message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. msg type = `%rsvp_type%` ip TOS = `%tos%`. ip pkt len = `%tot_ip_len%`. ip TTL = `%pkt_ttl%`. router alert = `%router_alert%`

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt

Name	Type
router_alert	String
pkt_dir	String

MPLS.SCK.BundleIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Bundle message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. msg type = `%rsvp_type%` ip TOS = `%tos%`. ip pkt len = `%tot_ip_len%`. ip TTL = `%pkt_ttl%`. router alert = `%router_alert%`

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.AckIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Ack message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(`%pkt_dir%`)Socket descr. = `%socketID%`. ips type = `%ips_type%`. src = `%src_addr%`. dest = `%dst_addr%`. msg type = `%rsvp_type%` ip TOS = `%tos%`. ip pkt len = `%tot_ip_len%`. ip TTL = `%pkt_ttl%`. router alert = `%router_alert%`

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.NotifyIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Notify message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%)Socket descr. = %socketID%. ips type = %ips_type%. src = %src_addr%. dest = %dst_addr%. msg type = %rsvp_type% ip TOS = %tos%. ip pkt len = %tot_ip_len%. ip TTL = %pkt_ttl%. router alert = %router_alert%

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.SrefreshIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Srefresh message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%)Socket descr. = %socketID%. ips type = %ips_type%. src = %src_addr%. dest = %dst_addr%. msg type = %rsvp_type% ip TOS = %tos%. ip pkt len = %tot_ip_len%. ip TTL = %pkt_ttl%. router alert = %router_alert%

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.HelloIpHdr

Description

This is a trace of the Ip header via MPLS socket (SCK) data request interface used by RSVP Hello message. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

(%pkt_dir%)Socket descr. = %socketID%. ips type = %ips_type%. src = %src_addr%. dest = %dst_addr%. msg type = %rsvp_type% ip TOS = %tos%. ip pkt len = %tot_ip_len%. ip TTL = %pkt_ttl%. router alert = %router_alert%

Message Parameters

Name	Type
ips_type	String
socketID	sInt
src_addr	srcIPaddress
dst_addr	dstIPaddress
rsvp_type	String
tos	String
tot_ip_len	uInt
pkt_ttl	uInt
router_alert	String
pkt_dir	String

MPLS.SCK.CloseTrace

Description

This is a trace of the MPLS socket (SCK) close request interface used by LDP and RSVP protocols. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

SocketID = `%socketID%`. `%msg1%` = `%addrFam%`. `%msg2%` = `%mplsProt%`. `%msg3%` = `%sock_type%` Socket CB = `%sock_cb%`

Message Parameters

Name	Type
socketID	sInt
addrFam	String
mplsProt	String
sock_type	String

Name	Type
msg1	String
msg2	String
msg3	String
sock_cb	uInt32

MPLS.SCK.RcvPktNoVlan

Description

This is a trace of the MPLS socket (SCK) data receive interface. This event is logged when the vlan that is associated with the receive data no longer supports MPLS. This is a tool used by developers to analysis the MPLS network.

Remedy

No remedy is available.

Severity

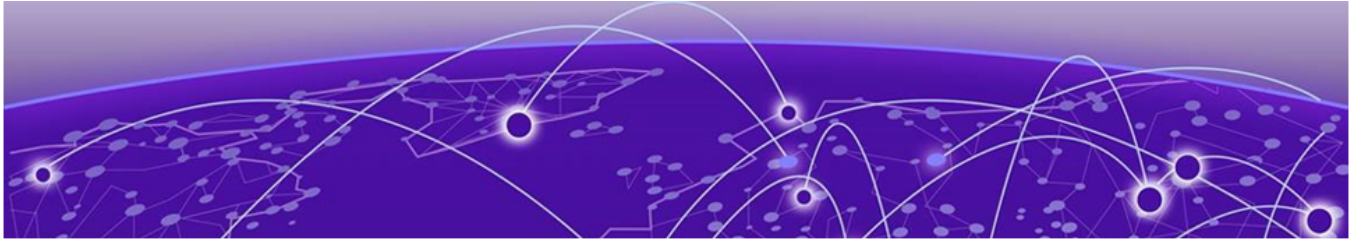
Debug-Data

Message Text

Socket descr. = `%socketID%`. Address Family = `%sock_type%`. interface index = `%if_index%`. out if = `%out_if%`. mpls protocol = `%mpls_prot%`.

Message Parameters

Name	Type
sock_type	String
socketID	sInt
if_index	uInt32
mpls_prot	String
out_if	String



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MPLS.TPM.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.TPM.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MPLS.TPM.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

MPLS.TPM.EnterFnc

Description

This is a generic debugging log for tracking the code path being executed

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Enter function `%function%`

Message Parameters

Name	Type
function	String

MPLS.TPM.AddEntFail

Description

Due to the specified reason, the pseudo-wire indentified by the given index could not be added to an internal table.

Remedy

Disabling and enabling the L2VPN or CES container for the pseudo-wire may fix the problem. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Error

Message Text

Unable to add an entry for the pseudo-wire with index `%pwIndex%` to the \"`%table%`\": `%reason%`

Message Parameters

Name	Type
pwIndex	uInt32
table	String
reason	Printf

MPLS.TPM.UpdtEntFail

Description

Due to the specified reason, the pseudo-wire indentified by the given index could not be updated in an internal table.

Remedy

Disabling and enabling the L2VPN or CES container for the pseudo-wire may fix the problem. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Error

Message Text

Unable to update an entry for the pseudo-wire with index `%pwIndex%` in the \"`%table%`\": `%reason%`

Message Parameters

Name	Type
pwIndex	uInt32
table	String
reason	Printf

MPLS.TPM.DelEntFail

Description

Due to the specified reason, the pseudo-wire indentified by the given index could not be removed from an internal table.

Remedy

Disabling and enabling the L2VPN or CES container for the pseudo-wire may fix the problem. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Error

Message Text

Unable to delete an entry for the pseudo-wire with index `%pwIndex%` from the \"`%table%`\": `%reason%`

Message Parameters

Name	Type
pwIndex	uInt32
table	String
reason	Printf

MPLS.TPM.CBDataIgn

Description

While performing work on an internal pseudo-wire table entry, some unexpected data was found associated with the conrol block. Since the data was not expected, and not required, it was ignored.

Remedy

No action may be required; however, if the pseudo-wire specified by the pwIndex is not functioning properly, disabling and enabling the L2VPN or CES container for the pseudo-wire may fix the problem. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Warning

Message Text

Control block data for the pseudo-wire with index `%pwIndex%` was ignored `%action%`

Message Parameters

Name	Type
pwIndex	uInt32
action	Printf

MPLS.TPM.CBParmIgn

Description

While performing work on an internal pseudo-wire table entry, an unexpected parameter was received. Since the parameter was not expected, and not required, it was ignored.

Remedy

No action may be required; however, if the pseudo-wire specified by the pwIndex is not functioning properly, disabling and enabling the L2VPN or CES container for the pseudo-wire may fix the problem. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If

the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Warning

Message Text

Control block parameter for the pseudo-wire with index `%pwIndex%` was ignored `%action%`

Message Parameters

Name	Type
pwIndex	uInt32
action	Printf

MPLS.TPM.CBDataNotFnd

Description

While performing work on an internal pseudo-wire table entry, the control block data used to manage the entry could not be found.

Remedy

Since the control block data was missing, the action being performed on the pseudo-wire likely did not complete. Disabling and enabling the L2VPN or CES container for the pseudo-wire may restore normal operation. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Error

Message Text

Control block data for the pseudo-wire with index `%pwIndex%` was not found `%action%`

Message Parameters

Name	Type
pwIndex	uInt32
action	Printf

MPLS.TPM.CBParmNotFnd

Description

While performing work on an internal pseudo-wire table entry, a control block parameter used to manage the entry was not received.

Remedy

Since the control block parameter was missing, the action being performed on the pseudo-wire likely did not complete. Disabling and enabling the L2VPN or CES container for the pseudo-wire may restore normal operation. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Error

Message Text

Control block parameter for the pseudo-wire with index `%pwIndex%` was not found `%action%`

Message Parameters

Name	Type
pwIndex	uInt32
action	Printf

MPLS.TPM.CBDataNull

Description

While performing work on an internal pseudo-wire table entry, the control block data used to manage the entry was found to be NULL.

Remedy

Since the control block data was NULL, the affected pseudo-wire cannot be determined from the information available when the log was generated. If the affected pseudo-wire can be determined by some other method, disabling and enabling the L2VPN or CES container for the pseudo-wire may restore normal operation. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Error

Message Text

Control block data for a pseudo-wire was unexpectedly NULL in function `%function%`

Message Parameters

Name	Type
function	String

MPLS.TPM.StateChgInv

Description

A pseudo-wire received an event that is not valid or handled for the current state of the pseudo-wire FSM. The requested event was rejected and the pseudo-wire did not take any action because of the event.

Remedy

Since no action was taken, the affected pseudo-wire may still be functioning proplerly; however, if the the pseudo-wire is not functioning properly, disabling and enabling the L2VPN or CES container for the pseudo-wire may restore normal operation. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Error

Message Text

A pseudo-wire with index `%pwIndex%` incorrectly received \"`%event%`\" event while in FSM state \"`%state%`\"

Message Parameters

Name	Type
pwIndex	uInt32
state	String
event	String

MPLS.TPM.AddWorkQueFail

Description

A pseudo-wire received an event request that had to be added to a work queue for deferred processing. The item could not be added to the work queue and as a result, the request will not be processed.

Remedy

Disabling and enabling the L2VPN or CES container for the pseudo-wire may restore normal operation. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Warning

Message Text

A work item (`%work%`) triggered by event \"`%event%`\" for the pseudo-wire with index `%pwIndex%` in FSM state \"`%state%`\" could not be added to the work queue

Message Parameters

Name	Type
pwIndex	uInt32
state	String
event	String
work	xInt32

MPLS.TPM.EventInv

Description

A pseudo-wire received an event that is not valid. The requested event was rejected and the pseudo-wire did not take any action because of the event.

Remedy

Since no action was taken, the affected pseudo-wire may still be functioning proplerly; however, if the the pseudo-wire is not functioning properly, disabling and enabling the L2VPN or CES container for the pseudo-wire may restore normal operation. To enable/disable an L2VPN, use the "enable/disable l2vpn" command. To enable/disable a CES, use the "enable/disable ces" command. If the problem continues, disabling and enabling MPLS will cause this internal table to be reset. To enable/disable MPLS, use the "enable/disable mpls" command.

Severity

Error

Message Text

A FSM event (`%event%`) for the pseudo-wire with index `%pwIndex%` was invalid `%action%`

Message Parameters

Name	Type
pwIndex	uInt32
event	uInt
action	Printf

MPLS.TPM.DebugFSM

Description

A condition related to FSM execution has been detected that may interest a developer analyzing some system behavior.

Remedy

No action required - Informational message only.

Severity

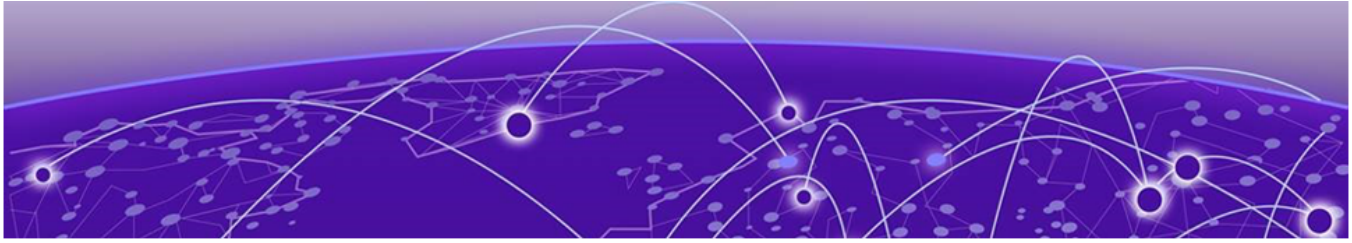
Debug-Verbose

Message Text

PW Index: `%pwIndex%` -- `%message%`

Message Parameters

Name	Type
pwIndex	uInt32
message	Printf



MRP Messages

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MRP.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MRP.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MRP.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

MRP.ParmInv

Description

Error checking has determined that an invalid parameter has been passed to the function. Example errors are unexpected NULL pointers or parameters out of range. As a result, the action performed may not have worked as intended.

Remedy

There is no known remedy. Inform engineering. Provide as much information as possible including config file, log file, and a description of actions that were being performed when log message was seen.

Severity

Critical

Message Text

Invalid Parameter `%format%`

Message Parameters

Name	Type
format	Printf

MRP.ERROR

Description

Generic MRP error message. This is a temporary place holder, and must be replaced prior to code release.

Remedy

TBD

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

MRP.SMTrace

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

MRP.StrmRsvFail

Description

This event occurs when the stream reservation fails on a port due to any of the below reasons: 1. Insufficient bandwidth 2. Insufficient Bridge resources 3. Insufficient bandwidth for traffic class. 4. StreamID in use by another Talker 5. Stream destination_address already in use 6. Stream preempted by higher rank 7. Reported latency has changed 8. Egress port is not AVB capable 9. Use a different destination_address (i.e., MAC DA hash table full) 10. Out of MSRP resources 11. Out of MMRP resources 12. Cannot store destination_address (i.e., Bridge is out of MAC DA resources) 13. Requested priority is not an SR Class priority 14. MaxFrameSize is too large for media 15. msrpMaxFanInPorts limit has been reached 16. Changes in FirstValue for a registered StreamID. 17. VLAN is blocked on this egress port (Registration Forbidden) 18. VLAN tagging is disabled on this egress port (untagged set) 19. SR class priority mismatch

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Stream Reservaion Failure on port `%port%` with following parameters: StreamId- `%streamID%`, Reason- `%failureReason%`.

Message Parameters

Name	Type
port	SlotPort
streamID	uInt16
failureReason	Printf

MRP.AddPortVLANOK

Description

This event occurs when port was successfully added to a VLAN.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Added port `%port%` to VLAN with VLANId: `%vlanId%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag

MRP.AddPortVLANFail

Description

This event occurs when port was not able to be added to a VLAN.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Failed to add port `%port%` to VLAN with VLANId- `%vlanId%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag

MRP.CreatVLANOK

Description

This event occurs when port a VLAN was created dynamically.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Created VLAN dynamically with VLANId `%vlanId%`.

Message Parameters

Name	Type
vlanId	VLAN-tag

MRP.CreatVLANFail

Description

This event occurs when a VLAN was failed to be created dynamically.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Failed to create VLAN dynamically with VLANId `%vlanId%` .

Message Parameters

Name	Type
vlanId	VLAN-tag

MRP.DelPortVLANOK

Description

This event occurs when port was successfully deleted from a VLAN.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Deleted port `%port%` from VLAN with VLANId: `%vlanId%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag

MRP.DelPortVLANFail

Description

This event occurs when port was failed to delete from a VLAN.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Failed to delete port `%port%` from VLAN with VLANId: `%vlanId%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag

MRP.RxMVRPMsg

Description

This event occurs when a MVRP message is received on a port.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Received MVRP message on port `%port%` with the following parameters: VLANid - `%vlanId%`, Message - `%message%`, Attribute Event- `%attributeEvent%`, Attribute type- `%attrType%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag
message	uInt8
attributeEvent	String
attrType	String

MRP.TxMVRPMsg

Description

This event occurs when a MVRP message is transmitted from a port.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Transmitted MVRP message on port `%port%` with the following parameters: VLANid - `%vlanId%`, Attribute Event - `%attrEvent%`, Attribute type- `%attrType%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag
attrEvent	String
attrType	String

MRP.AddStrmRsv

Description

This event occurs when the stream reservation is added.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

MSRP stream reservation added with StreamId- `%streamID%`, Destination MAC- `%desMAC%` Class- `%trafficClass%` Bandwidth- `%bandwidth%` on port `%port%`.

Message Parameters

Name	Type
port	SlotPort
streamID	String
bandwidth	uInt32
trafficClass	uInt8
desMAC	MAC

MRP.RemStrmRsv

Description

This event occurs when a MSP stream reservation is removed.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

MSRP stream reservation removed with StreamId- `%streamID%`, Destination MAC- `%dstMAC%`, Class- `%trafficClass%`, Bandwidth- `%bandwidth%` on port `%port%`.

Message Parameters

Name	Type
port	SlotPort
streamID	String
bandwidth	uInt32
trafficClass	uInt8
dstMAC	MAC

MRP.RxMSRPDmnMsg

Description

This event occurs when a MSRP domain message is received on a port.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Received MSRP Domain message on port `%port%` with VLAN- `%vlanId%`, Attribute Event- `%attributeEvent%`, SR Class Id- `%classId%`, SR Class Priority- `%classPriority%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag
attributeEvent	String
classId	uInt8
classPriority	uInt8

MRP.TxMSRPDmnMsg

Description

This event occurs when a MSRP domain message is transmitted on a port.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Transmitted MSRP Domain message on port `%port%` with VLAN- `%vlanId%`, Attribute Event- `%attributeEvent%`, SR Class Id- `%classId%`, SR Class Priority- `%classPriority%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag
attributeEvent	String
classId	uInt8
classPriority	uInt8

MRP.TxMSRPTalkMsg

Description

This event occurs when a MSRP Talker message is transmitted on a port.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Transmitted MSRP Talker message on port `%port%` with StreamId - `%streamId%`, Destination MAC: `%dstMAC%`, VLAN- `%vlanId%`, Attribute Event- `%attributeEvent%`, Declaration Type-`%declarationType%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag
attributeEvent	String
streamId	String

Name	Type
dstMAC	MAC
declarationType	String

MRP.RxMSRPTalkMsg

Description

This event occurs when a MSRP Talker message is received on a port.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Received MSRP Talker message on port `%port%` with StreamId - `%streamId%`, Destination MAC: `%dstMAC%`, VLAN- `%vlanId%`, Attribute Event- `%attributeEvent%`, Declaration Type-`%declarationType%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag
attributeEvent	String
streamId	String
dstMAC	MAC
declarationType	String

MRP.TxMSRPLstnMsg

Description

This event occurs when a MSRP Listener message is transmitted on a port.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Transmitted MSRP Listener message on port `%port%` with StreamId - `%streamId%`, Destination MAC: `%dstMAC%`, VLAN- `%vlanId%`, Attribute Event- `%attributeEvent%`, Declaration Type-`%declarationType%`.

Message Parameters

Name	Type
port	SlotPort
vlanId	VLAN-tag
attributeEvent	String
streamId	String
dstMAC	MAC
declarationType	String

MRP.RxMSRPLstnMsg

Description

This event occurs when a MSRP listener message is received on a port.

Remedy

No action required - Information message only.

Severity

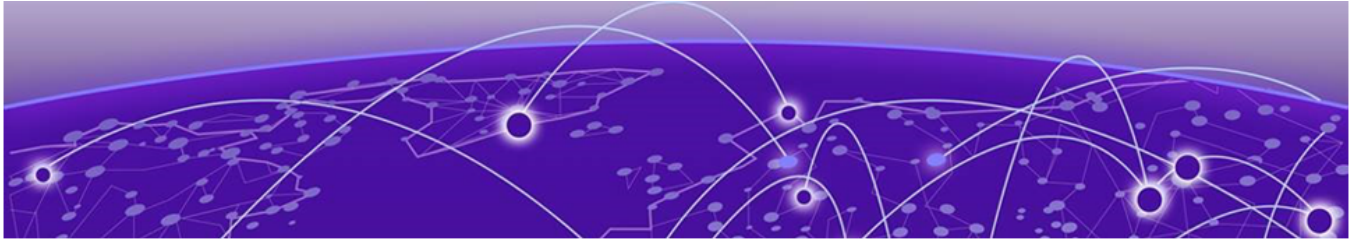
Debug-Summary

Message Text

Received MSRP Listener message on port `%port%` with StreamId - `%streamId%`, Attribute Event- `%attributeEvent%`, Declaration Type-`%declarationType%`.

Message Parameters

Name	Type
port	SlotPort
attributeEvent	String
streamId	String
declarationType	String



msdp Messages

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msdp.DebugVerbose on page 3375
msdp.DebugData on page 3375
msdp.Init on page 3376
msdp.DeInit on page 3376
msdp.NodeNotFnd on page 3377
msdp.SockCreatFail on page 3377
msdp.SockOptSetFail on page 3378
msdp.MemAllocFail on page 3378
msdp.SockConnectFail on page 3379
msdp.DataTxFail on page 3379
msdp.DataRxFail on page 3380

msdp.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

msdp.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

msdp.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

msdp.Init

Description

When user creates a Virtual Router, MSDP will initialize it's own database for that particular VR.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Initializing MSDP node for virtual router `%vrname%`

Message Parameters

Name	Type
vrname	String

msdp.DeInit

Description

When user deletes a Virtual Router, MSDP will remove it's own database for that particular VR.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Removing MSDP node for virtual router `%vrname%`

Message Parameters

Name	Type
vrname	String

msdp.NodeNotFnd

Description

MSDP doesn't know about this VR. The associated MSDP database in not yet initialized

Remedy

No remedy is available.

Severity

Warning

Message Text

MSDP node not found for virtual router `%vrId%` !!!

Message Parameters

Name	Type
vrId	uInt16

msdp.SockCreatFail

Description

MSDP doesn't know about this VR. The associated MSDP database in not yet initialized

Remedy

No remedy is available.

Severity

Warning

Message Text

MSDP global server socket creation failed !!!

msdp.SockOptSetFail

Description

MSDP doesn't know about this VR. The associated MSDP database in not yet initialized

Remedy

No remedy is available.

Severity

Warning

Message Text

Reuse address socket option configuration failed on MSDP global server socket!!!

msdp.MemAllocFail

Description

Memory allocation failure

Remedy

No remedy is available.

Severity

Warning

Message Text

Memory allocation failed for `%type%`!!!

Message Parameters

Name	Type
type	String

msdp.SockConnectFail

Description

TCP socket connection failed. FSM will retry soon

Remedy

No remedy is available.

Severity

Warning

Message Text

Connect failed for socket `%sock%` due to `%msg%`!!!

Message Parameters

Name	Type
sock	sInt32
msg	String

msdp.DataTxFail

Description

Transmission of data on TCP socket failed. This is fatal error, the MSDP neighbor will be reset

Remedy

No remedy is available.

Severity

Warning

Message Text

Data send on socket %sock% failed due to %msg%!!!

Message Parameters

Name	Type
sock	sInt32
msg	String

msdp.DataRxFail

Description

Reception of data on TCP socket failed. This is fatal error, the MSDP neighbor will be reset

Remedy

No remedy is available.

Severity

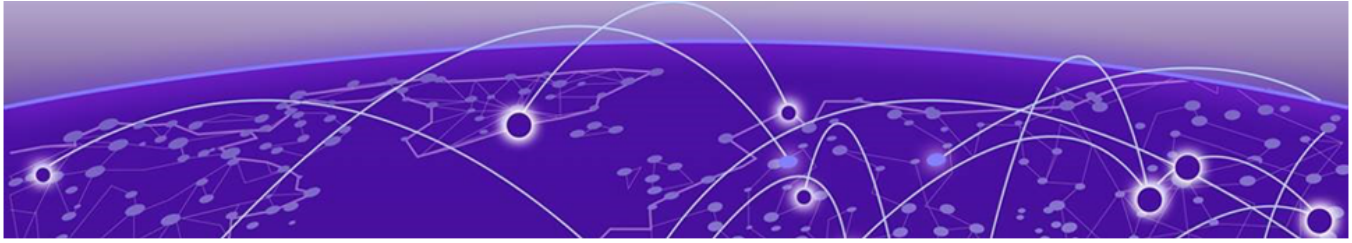
Warning

Message Text

Data receive on socket %sock% failed due to %msg%!!!

Message Parameters

Name	Type
sock	sInt32
msg	String



msdp.events Messages

msdp.events.DebugSummary on page 3381
msdp.events.DebugVerbose on page 3382
msdp.events.DebugData on page 3383
msdp.events.HoldTmrExp on page 3383
msdp.events.PeerFSMEvent on page 3384
msdp.events.PeerStart on page 3384
msdp.events.SockBindFail on page 3385
msdp.events.FSMError on page 3386
msdp.events.AuthCfgFail on page 3386
msdp.events.RejAnonConn on page 3387
msdp.events.LocAddrMismatch on page 3387
msdp.events.TcpFail on page 3388
msdp.events.TcpClosed on page 3388
msdp.events.ReadyToSend on page 3389
msdp.events.SACacheAgeout on page 3389
msdp.events.ReRunRpf on page 3390
msdp.events.RpfResult on page 3391
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msdp.events.LocalSAAdd on page 3392
msdp.events.LocalSADel on page 3392
msdp.events.SAAdvTmrExp on page 3393
msdp.events.MarkRpfRun on page 3393
msdp.events.RunPeerRpf on page 3394
msdp.events.PeerRpfFail on page 3394
msdp.events.NoRpfPeer on page 3395

msdp.events.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

msdp.events.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

msdp.events.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

msdp.events.HoldTmrExp

Description

Hold timer expired because peer didn't send any message for Hold Timer duration. MSDP session will be tear down.

Remedy

No remedy is available.

Severity

Warning

Message Text

Hold timer expired for the peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
vrname	String

msdp.events.PeerFSMEvent

Description

Peer FSM event.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

FSM event current state `%state%` event `%event%` new state `%new_state%` for peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
state	String
event	String
new_state	String
peer	IP
vrname	String

msdp.events.PeerStart

Description

Starting MSDP peer.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Starting peer `%peer%` with local addr `%loc_addr%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
loc_addr	IP
vrname	String

msdp.events.SockBindFail

Description

Socket bind failure.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Socket bind to local address `%loc_addr%` failed for peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
loc_addr	IP
peer	IP
vrname	String

msdp.events.FSMError

Description

Peer FSM error.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

FSM error detected for peer `%peer%` current state `%state%` event `%event%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
state	String
event	String
vrname	String

msdp.events.AuthCfgFail

Description

Setting of TCP MD5 password for MSDP peer failed

Remedy

No remedy is available.

Severity

Warning

Message Text

Authentication configuration failed for peer `%peer%` due to `%msg%`

Message Parameters

Name	Type
peer	IP
msg	String

msdp.events.RejAnonConn

Description

Incoming TCP connection for a non existant MSDP peer.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Rejecting incoming anonymous connection from peer `%peer%`

Message Parameters

Name	Type
peer	IP

msdp.events.LocAddrMismatch

Description

Incoming TCP connection's destination IP address doesn't match configured local address.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Can't establish connection due to mismatch in local address from peer `%peer%`

Message Parameters

Name	Type
peer	IP

msdp.events.TcpFail

Description

Connection to peer failed. MSDP will try to connect again.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Connect to peer `%peer%` failed on skt `%sock%`

Message Parameters

Name	Type
peer	IP
sock	sInt32

msdp.events.TcpClosed

Description

Connection closed by the other end. MSDP will try to connect again.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Error detected while writing data to peer `%peer%`

Message Parameters

Name	Type
peer	IP

msdp.events.ReadyToSend

Description

Ready to send data to this MSDP peer

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Ready to send data to peer `%peer%` on skt `%sock%`

Message Parameters

Name	Type
peer	IP
sock	sInt32

msdp.events.SACacheAgeout

Description

Ready to send data to this MSDP peer

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

SA cache entry src `%src%` group `%grp%` RP `%rp%` from `%peer%` agedout

Message Parameters

Name	Type
src	IP
grp	IP
rp	IP
peer	IP

msdp.events.ReRunRpf

Description

Path to reach RP has changed. So Peer RPF needs to be run again

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Re running peer RPF check due to `%reason%` for `%dest%`

Message Parameters

Name	Type
dest	IP
reason	String

msdp.events.RpfResult

Description

Output of the Peer RPF algorithm

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

RPF peer for RP `%rp%` is `%peer%` (`%rule%`)

Message Parameters

Name	Type
rp	IP
peer	IP
rule	String

msdp.events.PurgeSACache

Description

Purging SA cache due to peer going down

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Purging SA cache database received from peer `%peer%`

Message Parameters

Name	Type
peer	IP

msdp.events.LocalSAAdd

Description

Local SA cache added

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Local SA cache src `%src%` group `%grp%` is added in VR `%vrname%`

Message Parameters

Name	Type
src	IP
grp	IP
vrname	String

msdp.events.LocalSADel

Description

Local SA cache deleted

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Local SA cache src `%src%` group `%grp%` is deleted from VR `%vrname%`

Message Parameters

Name	Type
src	IP
grp	IP
vrname	String

msdp.events.SAAdvTmrExp

Description

All local SA cache will be re-advertised

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Periodic SA cache advertisement timer expired for VR `%vrname%`

Message Parameters

Name	Type
vrname	String

msdp.events.MarkRpfRun

Description

Mark for re computation of RPF peer for a RP

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Mark RP `%rp%` to re run peer RPF check due to `%reason%`

Message Parameters

Name	Type
rp	IP
reason	String

msdp.events.RunPeerRpf

Description

This event is about running of peer RPF check for a new RP

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

MSDP is running Peer RPF check for RP `%rp%` in VR `%vrname%`

Message Parameters

Name	Type
rp	IP
vrname	String

msdp.events.PeerRpfFail

Description

This event is about running of peer RPF check for a new RP

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Peer RPF check for SA msg with RP `%rp%` from peer `%peer%` in VR `%vrname%` failed

Message Parameters

Name	Type
rp	IP
peer	IP
vrname	String

msdp.events.NoRpfPeer

Description

This event is about running of peer RPF check for a new RP

Remedy

No remedy is available.

Severity

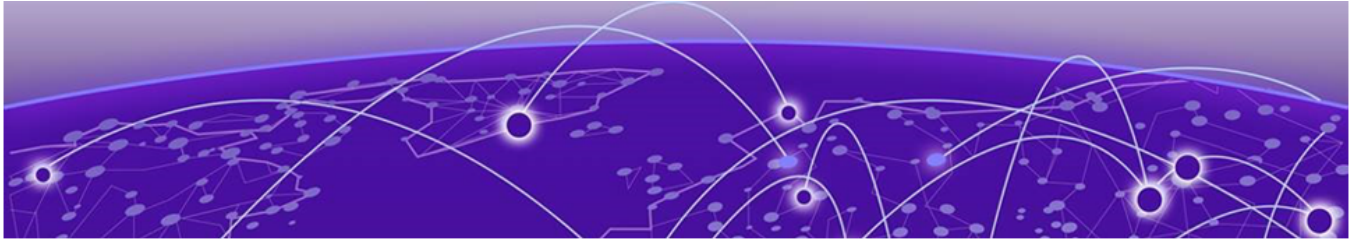
Debug-Summary

Message Text

No RPF peer for SA message with RP `%rp%` in VR `%vrname%`

Message Parameters

Name	Type
rp	IP
vrname	String



msdp.extif Messages

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msdp.extif.DebugVerbose on page 3397
msdp.extif.DebugData on page 3397
msdp.extif.Reg on page 3398
msdp.extif.RtMgrPrefixRegFail on page 3398
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msdp.extif.UnkRtNotif on page 3400
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msdp.extif.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

msdp.extif.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

msdp.extif.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

msdp.extif.Reg

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Process `%process%` registered with MSDP

Message Parameters

Name	Type
process	String

msdp.extif.RtMgrPrefixRegFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Prefix registration for `%dest%` VR `%vrname%` to RtMgr failed

Message Parameters

Name	Type
dest	IP
vrname	String

msdp.extif.RtNotif

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Route to dest `%dest%` in VR `%vrname%` is `%reach%`

Message Parameters

Name	Type
dest	IP
vrname	String
reach	String

msdp.extif.UnkRtNotif

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Unknown route notification received for dest `%dest%` in VR `%vrname%`

Message Parameters

Name	Type
dest	IP
vrname	String

msdp.extif.NotifyPIM

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Notifying PIM about SA cache src `%src%` group `%grp%` `%with%` data in VR `%vrname%`

Message Parameters

Name	Type
src	IP
grp	IP
with	String
vrname	String

msdp.extif.ClientReg

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

A new client `%name%` registered with MSDP

Message Parameters

Name	Type
name	String

msdp.extif.SGRegByPIM

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

PIM registers src `%src%` group `%grp%` in VR `%vrname%` with MSDP

Message Parameters

Name	Type
src	IP
grp	IP
vrname	String

msdp.extif.SGUnRegByPIM

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

PIM unregisters src `%src%` group `%grp%` in VR `%vrname%` from MSDP

Message Parameters

Name	Type
src	IP
grp	IP
vrname	String

msdp.extif.RtNotifFromBGP

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

MSDP recv route reachability notification from BGP about `%dest%` in VR `%vrname%`

Message Parameters

Name	Type
dest	IP
vrname	String

msdp.extif.RxMsgFromClient

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

MSDP recv msg of type `%type%` length `%len%` from client `%client%`

Message Parameters

Name	Type
type	sInt32
len	sInt32
client	String

msdp.extif.SendRtReqToBGP

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

MSDP sending route request msg to BGP for dest `%dest%` net `%net%`/`%mask%` in VR `%vrname%`

Message Parameters

Name	Type
dest	IP
net	IP
mask	sInt32
vrname	String

msdp.extif.RxSyncRspFromBGP

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Recd sync route response from BGP about dest `%dest%` in VR `%vrname%`

Message Parameters

Name	Type
dest	IP
vrname	String

msdp.extif.SendGrpNotifToPIM

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Notifying PIM about sources for group `%grp%` source count `%num%` in VR `%vrname%`

Message Parameters

Name	Type
grp	IP
num	sInt32
vrname	String

msdp.extif.RxMsgFromPIM

Description

This message gets logged when MSDP receives a message from PIM.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Rx message from PIM - `%msgtype%` type:`%type%`; mode:`%mode%`; flags:`%flags%`; rp:`%rp%`; num:`%num%`

Message Parameters

Name	Type
msgtype	String
type	uInt
mode	uInt
flags	uInt
rp	String
num	uInt

msdp.extif.RxEntriesSGfromPIM

Description

This message logs the individual (S, G) entry from PIM to MSDP

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

(S, G) entry in PIM to MSDP message - index:`%i%`; S:`%S%`; G:`%G%`

Message Parameters

Name	Type
i	uInt
S	String
G	String

msdp.extif.RxDupRegMsgFromPIM

Description

This message gets logged when MSDP receives a duplicate message from PIM.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Rx duplicate register message from PIM - group: `%grp%` source: `%src%` already registered

Message Parameters

Name	Type
grp	String
src	String

msdp.extif.RxDupUnRegMsgFromPIM

Description

This message gets logged when MSDP receives a duplicate message from PIM.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Rx duplicate unregister message from PIM - group: `%grp%` source: `%src%` doesn't exist

Message Parameters

Name	Type
grp	String
src	String

msdp.extif.RxDupSAFromPIM

Description

This message gets logged when MSDP receives a duplicate SA Add/Delete message from PIM.

Remedy

No remedy is available.

Severity

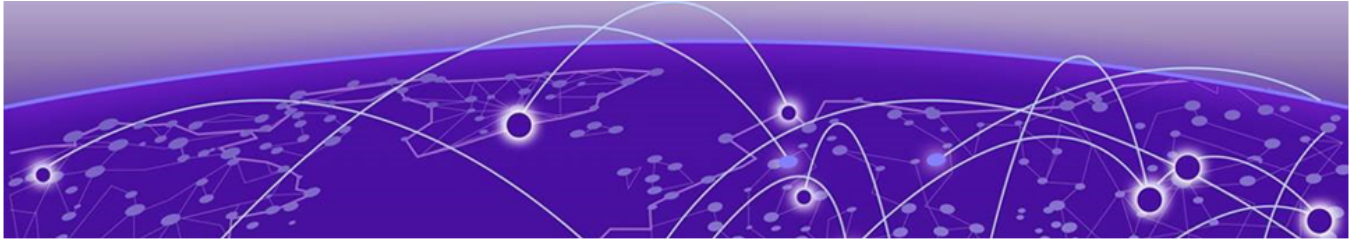
Debug-Summary

Message Text

Rx duplicate local SA `%oper%` message from PIM - group: `%grp%` source: `%src%`

Message Parameters

Name	Type
oper	String
grp	String
src	String



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msdp.msgs.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

msdp.msgs.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

msdp.msgs.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

msdp.msgs.Rx

Description

This event is about reception of a MSDP protocol msg from it's peer

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

MSDP message received from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
vrname	String

msdp.msgs.TxKeepalive

Description

This event is about transmission of a MSDP Keepalive msg to it's peer

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Sending MSDP keepalive message to peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
vrname	String

msdp.msgs.RxSA

Description

This event is about reception of a MSDP SA protocol msg from it's peer

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

MSDP SA message of length `%len%` rx from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
len	sInt32
peer	IP
vrname	String

msdp.msgs.RxSAReq

Description

This event is about reception of a MSDP SA Request protocol msg from it's peer

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

MSDP SA request message received from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
vrname	String

msdp.msgs.RxSAResp

Description

This event is about reception of a MSDP SA Response protocol msg from it's peer

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

MSDP SA response message received from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
vrname	String

msdp.msgs.RxKeepalive

Description

This event is about reception of a MSDP keepalive msg from it's peer

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

MSDP keepalive message received from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
vrname	String

msdp.msgs.RxUnknownMsg

Description

This event is about reception of a MSDP keepalive msg from it's peer

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Unknown MSDP message received from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
vrname	String

msdp.msgs.TX

Description

This event is about transmission of a MSDP msg to it's peer

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Sending MSDP message of length `%len%` to peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
len	sInt32
peer	IP
vrname	String

msdp.msgs.MsgTooBig

Description

This event is about reception of a MSDP msg that is bigger than MAX (8192) bytes

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Recvd MSDP SA msg has length `%len%` from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
len	sInt32
peer	IP
vrname	String

msdp.msgs.InvMsgLen

Description

This event is about reception of a MSDP SA msg whose total length is less than the control part of the msg

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Recvd MSDP SA msg total length `%len%` is less than control length `%ctrl_len%` from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
len	sInt32
ctrl_len	sInt32
peer	IP
vrname	String

msdp.msgs.InvRpAddr

Description

This event is about reception of a MSDP SA msg with invalid Originating RP field

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Recvd MSDP SA msg has invalid RP address `%rp%` from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
rp	IP
peer	IP
vrname	String

msdp.msgs.InvGrpAddr

Description

This event is about reception of a MSDP SA msg with one of SA record having invalid Group address

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Recvd MSDP SA msg has invalid group address `%grp%` from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
grp	IP
peer	IP
vrname	String

msdp.msgs.InvSrcAddr

Description

This event is about reception of a MSDP SA msg with one of SA record having invalid source address

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Recvd MSDP SA msg has invalid source address `%src%` from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
src	IP
peer	IP
vrname	String

msdp.msgs.EncapDataRx

Description

This event is about reception of a MSDP SA msg with enacpsulated data field

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Recvd MSDP SA msg has encapsulated data of len `%len%` from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
vrname	String
len	sInt32

msdp.msgs.ProcSARec

Description

This event is about processing of a SA record

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Process SA record (src `%src%`, group `%grp%`, RP `%rp%`) from peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
src	IP
grp	IP
rp	IP
peer	IP
vrname	String

msdp.msgs.SARejByPlcy

Description

This event is about processing of a SA record

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

SA record (`%src%`, `%grp%`) from peer `%peer%` in VR `%vrname%` rejected by policy

Message Parameters

Name	Type
src	IP
grp	IP
peer	IP
vrname	String

msdp.msgs.DefPeerPlcy

Description

This event is about processing of a SA record

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

SA record (`%src%`, `%grp%`) from peer `%peer%` in VR `%vrname%` `%rej%` by default peer policy

Message Parameters

Name	Type
src	IP
grp	IP
peer	IP
vrname	String
rej	String

msdp.msgs.InvLenSAReq

Description

This event is about reception of a SA request msg with invalid length

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

SA req msg from peer `%peer%` in VR `%vrname%` has invalid len `%len%`

Message Parameters

Name	Type
peer	IP
vrname	String
len	sInt32

msdp.msgs.InvGrpAddrInSAReq

Description

This event is about reception of a SA request msg with invalid group address

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

SA req msg from peer `%peer%` in VR `%vrname%` has invalid group addr `%grp%`

Message Parameters

Name	Type
peer	IP
vrname	String
grp	IP

msdp.msgs.SAReqRej

Description

This event is about reception of a SA request msg

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

SA req msg from peer `%peer%` in VR `%vrname%` rejected by policy

Message Parameters

Name	Type
peer	IP
vrname	String

msdp.msgs.TxSAResp

Description

This event is about transmission of a SA response msg

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Queue SA resp msg with `%num%` SA records for group `%grp%` to peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
num	sInt32
grp	IP
peer	IP
vrname	String

msdp.msgs.InitialSATx

Description

This event is about transmission of a SA response msg

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Sending entire SA cache database to peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
peer	IP
vrname	String

msdp.msgs.TxSA

Description

This event is about transmission of a SA response msg

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Sending SA cache src `%src%` group `%grp%` to peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
src	IP
grp	IP
peer	IP
vrname	String

msdp.msgs.TxSAReq

Description

This event is about transmission of a SA request msg

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Sending SA request msg for group `%grp%` to peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
grp	IP
peer	IP
vrname	String

msdp.msgs.SAReqNotSent

Description

This event is about transmission of a SA request msg

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

SA request msg not sent for group `%grp%` to peer `%peer%` in VR `%vrname%` as peer is not up

Message Parameters

Name	Type
grp	IP
peer	IP
vrname	String

msdp.msgs.RxFrmMeshGrp

Description

This event is about reception of a SA msg from a peer that is also a member of the same Mesh Group

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

SA msg rxed from peer `%peer%` a member of mesh group `%grp%` so bypass RPF check

Message Parameters

Name	Type
peer	IP
grp	String

msdp.msgs.NumPeerSACacheExcd

Description

This event is about reception of a SA msg from a peer that causes the number of cache entries from that peer to exceed the preconfigured limit.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Num of SA cache entries from peer `%peer%` exceeds the preconfigured limit of `%num%`. Discard

Message Parameters

Name	Type
peer	IP
num	sInt32

msdp.msgs.NumRejSACacheExcd

Description

This event is about reception of a SA msg from a peer that causes the number of cache entries to exceed the preconfigured limit.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Num of rejected SA cache entries exceeds the preconfigured limit of `%num%`. Discard

Message Parameters

Name	Type
num	sInt32

msdp.msgs.TXSAEncap

Description

This event is about transmission of a MSDP msg to its peer

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Sending MSDP SA msg with encapsulated data length `%len%` to peer `%peer%` in VR `%vrname%`

Message Parameters

Name	Type
len	sInt32
peer	IP
vrname	String

msdp.msgs.EncapFree

Description

This event is about transmission of a MSDP msg to its peer

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Freeing MSDP SA encapsulated data of length `%len%`

Message Parameters

Name	Type
len	sInt32

msdp.msgs.DupEncapDataRx

Description

This event is about reception of a duplicate MSDP SA msg with enacpsulated data field

Remedy

No remedy is available.

Severity

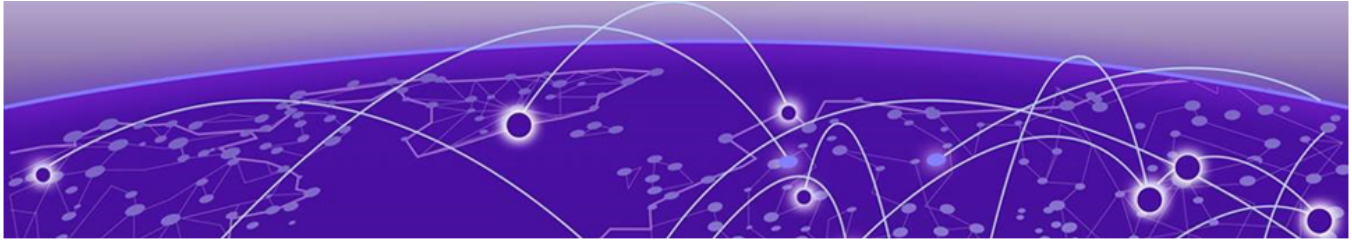
Debug-Summary

Message Text

Recvd MSDP SA `%src%` `%grp%` `%rp%` with encap data from `%peer%` for which encap data is already present

Message Parameters

Name	Type
src	IP
grp	IP
rp	IP
peer	IP



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NetDBMgr.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on the switch configuration. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Argument `%arg%` is NULL

Message Parameters

Name	Type
arg	String

NetDBMgr.ParmInv

Description

An internal function was called with an invalid value. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on the switch configuration. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Argument %arg% has an invalid value %val%

Message Parameters

Name	Type
arg	String
val	uInt32

NetDBMgr.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect network database operations.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory. Once sufficient system memory is reclaimed, it is recommended that netDbMgr process be restarted for internal state to be fully rebuilt.

Severity

Error

Message Text

Memory allocation failed when trying to allocate a %obj% structure of size %size%.

Message Parameters

Name	Type
obj	String
size	uInt32

NetDBMgr.AllocPipeFail

Description

A thread failed to open a pipe to talk to other threads in netDbMgr. This may be either due to the system running low on memory or a large number of file descriptors being opened by the process due to software bug. Pipe allocation failures imply no or partial control information exchange between threads that results in incorrect operation of netDbMgr. Users may see incorrect operation of applications that talk to a remote database

Remedy

Check free memory available on the system using the "show memory" command. If there is sufficient memory try restarting netDbMgr else reducing configuration may help reclaiming memory. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

Failed to create pipe with error: `%errormsg%(%err%)`

Message Parameters

Name	Type
errormsg	String
err	sInt32

NetDBMgr.SetPipeFail

Description

netDbMgr failed to set a configuration option on the pipe file descriptor used inter-thread communication. Failure to set correct options will result remote database operations failing and in incorrect working of application that rely on netDb infrastructure

Remedy

Try restarting netDbMgr using the "restart process netDbMgr" command. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

Failed to set Pipe `%option%` with error: `%errormsg%`(`%err%`)

Message Parameters

Name	Type
option	String
errormsg	String
err	sInt32

NetDBMgr.InitSrvrFail

Description

Failed to start the netDbMgr server. This condition results in applications not being able to communicate with netDbMgr and hence will not have access to remote databases. This is not expected and is indicative of a serious problem.

Remedy

Try restarting netDbMgr using the "restart process netDbMgr" command. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

Network Database server failed to start

NetDBMgr.InitApplFail

Description

Failed to initialize application that uses netDbMgr. This condition results in netDbMgr being unable to populate its structures on details of the connecting application. Some applications may not being able to communicate with netDbMgr and hence will not have access to remote databases. This is not expected and is indicative of a serious problem.

Remedy

Check free memory available on the system using the "show memory" command. If there is sufficient memory try restarting netDbMgr else reducing configuration may help reclaiming memory. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

Failed to initialize application: `%appl%`

Message Parameters

Name	Type
appl	String

NetDBMgr.InitSrvrDone

Description

This message is an informational message used for debugging problems related to netDbMgr Server and does not indicate a problem.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

netDbMgr server initialized successfully

NetDBMgr.OpenDrvrFail

Description

netDbMgr failed to open a database driver library of the indicated type. Driver open failures result in netDbMgr failing to connect to remote databases of the specified type. This is not expected and is indicative of a serious problem.

Remedy

Check free memory available on the system using the "show memory" command. If there is sufficient memory try restarting netDbMgr else reducing configuration may help reclaiming memory. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

Network Database Driver: `%name%` open failed with error: `%error%`)

Message Parameters

Name	Type
name	String
error	String

NetDBMgr.LkupDrvrFail

Description

netDbMgr failed to lookup a driver function. Database drivers are dynamically loaded depending on applications that use a specific type of database. Lookup failures indicate netDbMgr and the database driver library may have mismatched versions. This is not expected and is indicative of a serious problem.

Remedy

Try restarting netDbMgr using "restart process netDbMgr" command. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

Network Database Driver: `%name%` lookup for function `%function%` failed with error: `%error%`)

Message Parameters

Name	Type
name	String
function	String
error	String

NetDBMgr.InitDrvrFail

Description

netDbMgr failed to initialize a database driver. Driver initialization failures result in netDbMgr failing to connect to remote databases of the specified type. This is not expected and is indicative of a serious problem.

Remedy

Try restarting netDbMgr using "restart process netDbMgr" command. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

Network Database Driver: `%name%` initialization failed with error: `%error%`)

Message Parameters

Name	Type
name	String
error	String

NetDBMgr.SchedTimerFail

Description

netDbMgr failed to schedule a timer. Failure to schedule timers will result in incorrect operation of periodic or time-bound events in netDbMgr's operation. This is not expected and is indicative of a serious problem.

Remedy

Check free memory available on the system using the "show memory" command. If there is sufficient memory try restarting netDbMgr. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

netDbMgr failed to schedule an internal timer: `%name%` initialization failed with error: `%error%`)

Message Parameters

Name	Type
name	String
error	String

NetDBMgr.CreatThreadFail

Description

netDbMgr process failed to create an internal thread. Thread allocation failures are indicative of a serious resource depletion problem in the underlying Linux Kernel.

Remedy

Check free memory available on the system using the "show memory" command. If there is sufficient memory try restarting netDbMgr. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

Failed to create thread name:`%name%` with error: `%errormsg%` (`%err%`)

Message Parameters

Name	Type
name	String
errormsg	String
err	sInt32

NetDBMgr.AllocEventBaseFail

Description

netDbMgr process failed to allocate an event base. Event base allocation failures is indicative of the system being low on memory.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory. Once sufficient system memory is reclaimed, it is recommended that netDbMgr process be restarted for internal state to be fully rebuilt.

Severity

Error

Message Text

Failed to allocate a event base: `%name%`

Message Parameters

Name	Type
name	String

NetDBMgr.AllocEventStrucFail

Description

netDbMgr process failed to allocate an event structure. Event allocation failures indicates the system may be running low on memory.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory. Once sufficient system memory is reclaimed, it is recommended that netDbMgr process be restarted for internal state to be fully rebuilt.

Severity

Error

Message Text

Failed to allocate an event structure: `%name%`

Message Parameters

Name	Type
name	String

NetDBMgr.AssgnEventStrucFail

Description

netDbMgr process failed to assign an event structure. Event assignment failures will result in missed events and incorrect operation of netDbMgr

Remedy

Check free memory available on the system using the "show memory" command. If there is sufficient memory try restarting netDbMgr. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

Failed to assign an event; `%name%`

Message Parameters

Name	Type
name	String

NetDBMgr.ParseMsgFail

Description

netDbMgr was not able to successfully parse an internal message. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on the switch configuration.

Severity

Critical

Message Text

Failed to parse message `%format%`

Message Parameters

Name	Type
format	Printf

NetDBMgr.ConnDBSrvrFail

Description

netDbMgr was not able to successfully connect to a database server. This can happen due to one or more of these conditions - DNS resolution failure, route lookup failure,

a network connectivity issue, remote host being down, the remote database not accepting connections, authentication failure etc.

Remedy

Check if the remote database server is configured correctly and is accepting connections. Check the output of the show database command to see if the server address or hostname and the L4 port has been configured correctly. Use ping or traceroute from the switch to troubleshoot network connectivity and DNS lookup issues.

Severity

Critical

Message Text

Failed to connect. Database: `%db%` Server: `%host%` Port: `%port%` Error: `%err%`

Message Parameters

Name	Type
db	String
host	String
port	dstL4portN
err	String

NetDBMgr.AutoEdgeMsgTrace

Description

This message is for debugging problems related to Automated Edge application messages in netDbMgr. This does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve the Automated Edge application

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NetDBMgr.RedisDrvrTrace

Description

This message is for debugging problems related to Redis Driver for netDbMgr. This does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve Redis database in netDb Manager

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NetDBMgr.RedisDBTrace

Description

This message is for debugging problems related to Redis DB client for netDbMgr. This does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve Redis database in netDb Manager

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NetDBMgr.RedisCfgDBTrace

Description

This message is for debugging problems related to Redis DB client configuration for netDbMgr. This does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve Redis database in netDb Manager

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NetDBMgr.RedisEventDBTrace

Description

This message is for debugging problems related to Redis DB client events for netDbMgr. This does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve Redis database in netDb Manager

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NetDBMgr.AutoEdgeDBTrace

Description

This message is for debugging problems related to Automated Edge application in netDbMgr. This does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve Automated Edge application

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NetDBMgr.AutoEdgeCfgDBTrace

Description

This message is for debugging problems related to Automated Edge DB Configuration in netDbMgr. This does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve Automated Edge application

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NetDBMgr.AutoEdgeEventDBTrace

Description

This message is for debugging problems related to Automated Edge DB events in netDbMgr. This does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve Automated Edge application

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NetDBMgr.IntMsgTrace

Description

This message is for debugging problems related to internal messages in netDbMgr. This does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve inter-thread messaging within netDbMgr

Severity

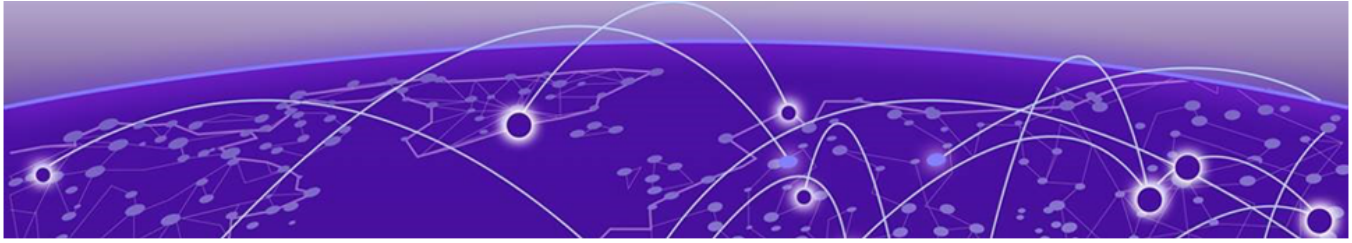
Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



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NetTools.PrvlgNotRoot

Description

NetTools must be started with root privileges.

Remedy

Start NetTools with root privileges.

Severity

Error

Message Text

NetTools was not started with root privileges

NetTools.AllocRawSockFail

Description

Can't allocate a system resource for receving a raw protocol.

Remedy

When the protocol type is IPPROTO_ICMP this is probably related to the ping or traceroute functions. Gather as much information on replication as possible and get in touch with the Extrmene Networks technical support center.

Severity

Error

Message Text

Can't allocate RAW socket for protocol `%prot%` error `%error%`

Message Parameters

Name	Type
prot	String
error	sInt

NetTools.AddSockToDsptchFail

Description

Could not add the given socket to the dispatcher.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Failed to add socket `%socket%-%type%` with VrID `%vrid%` to dispatcher.

Message Parameters

Name	Type
vrid	sInt
socket	sInt
type	uInt

NetTools.DsptchClbkCtrlBlkNull

Description

Callback function was called without any work to do.

Remedy

This should not happen, but if it does report it to Extreme Networks technical support center. This should not influence the opperation of the switch.

Severity

Info

Message Text

ntDtCallback() received a NULL socketEntry_t controll block.

NetTools.ICMPPktRxFmSock

Description

An incoming ICMP packet from the above socket was received.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Verbose

Message Text

ICMP packet from `%sip%` to `%dip%` on socket `%sock%-%vrid%` type `%type%` code `%code%`

Message Parameters

Name	Type
sip	srcIPN
dip	dstIPN
sock	sInt
vrid	uInt
type	uInt
code	uInt

NetTools.ICMPFragSizeSmall

Description

An ICMP packet with fragment data was received, but the fragement is to small to indentify if it was ours.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Summary

Message Text

ICMP fragment is to small to hold original IP packet plus ICMP header [`%vrid%:%iplen%:%ipHdrLen%:%ipFragHdrLen%`]

Message Parameters

Name	Type
vrid	uInt
iplen	uInt
ipHdrLen	uInt
ipFragHdrLen	uInt

NetTools.ICMPFragInvalid

Description

An ICMP packet with fragment data was received but the fragment is not an ICMP Echo Request packet.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Summary

Message Text

ICMP fragment does not contain an ICMP echo request packet [`%vrid%:%prot%:%type%`]

Message Parameters

Name	Type
vrid	uInt
prot	uInt
type	uInt

NetTools.ICMPFragPktRxFmSock

Description

An incomming ICMP fragment packet from the above socket was received.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Verbose

Message Text

ICMP fragment packet from `%sip%` to `%dip%` on socket `%sock%-%vrid%` type `%type%` code `%code%` id `%id%` seq `%seq%`

Message Parameters

Name	Type
sip	srcIP
dip	dstIP
sock	uInt
vrid	uInt
type	uInt
code	uInt
id	uInt
seq	uInt

NetTools.AllocUDPSockFail

Description

Can't allocate a system resource for receiving and sending UDP datagrams.

Remedy

For some reason it's not possible to allocate a socket. Please restart the netTools application. If this does not solve it get in touch with Extreme Networks techsupport.

Severity

Error

Message Text

Can't allocate UDP socket for source port `%port%` error `%error%`

Message Parameters

Name	Type
port	uInt
error	sInt

NetTools.BindUDPSockFail

Description

Can't bind UDP socket to local address or port.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Unable to bind UDP socket `%sock%` to `%ip%:%port%` error `%err%`

Message Parameters

Name	Type
sock	sInt
ip	SockAddr
port	uInt
err	sInt

NetTools.ICMPPktRxSizeSmall

Description

The packet size returned from recvfrom() is not enough to hold entire IP packet.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Summary

Message Text

ICMP packet received from recvfrom() is not large enough to hold IP and ICMP data [%socket%-%vrid%].

Message Parameters

Name	Type
socket	sInt
vrid	uInt

NetTools.RxPingReply

Description

A valid echo reply was received for an outstanding ping request. Enable the icmpIn message to see details on the source of the echo reply.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Verbose

Message Text

Echo reply; %size% bytes from %from%: icmp_seq=%seq% ttl=%ttl% [%secNow%.%usecNow% - %secSend%.%usecSend%]

Message Parameters

Name	Type
size	uInt
from	srcIPN
seq	uInt
ttl	uInt
secNow	uInt
usecNow	uInt
secSend	uInt
usecSend	uInt

NetTools.ConnectUDPSockFail

Description

Can't connect UDP socket to/from address and port specified.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Unable to connect UDP socket `%sock%` to `%dip%:%dport%` from `%sip%:%sport%` error `%err%`

Message Parameters

Name	Type
sock	sInt
dip	dstSockAddr
dport	dstL4port
sip	srcSockAddr
sport	srcL4port
err	uInt

NetTools.AllocTCPSockFail

Description

Can't allocate a system resource for receiving and sending TCP datagrams.

Remedy

For some reason it's not possible to allocate a socket. Please restart the netTools application. If this does not solve it get in touch with Extreme Networks techsupport.

Severity

Error

Message Text

Can't allocate TCP socket for source port %port% error %error%

Message Parameters

Name	Type
port	uInt
error	sInt

NetTools.BindTCPSockFail

Description

Can't bind TCP socket to local address or port.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Unable to bind TCP socket %sock% to %ip%:%port% error %err%

Message Parameters

Name	Type
sock	sInt
ip	SockAddr
port	uInt
err	sInt

NetTools.ListenTCPSockFail

Description

Can't listen on TCP socket for specific IP address and TCP port.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Unable to listen for TCP socket `%sock%` on `%ip%:%port%` error `%err%`

Message Parameters

Name	Type
sock	sInt
ip	SockAddr
port	uInt
err	sInt

NetTools.AcceptTCPSockFail

Description

Can't accept an new connection on TCP socket for specific IP address and TCP port.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Unable to accept TCP connection for socket `%sock%` on `%ip%:%port%` error `%err%`

Message Parameters

Name	Type
sock	sInt
ip	SockAddr
port	uInt
err	sInt

NetTools.ConnectTCPSockFail

Description

Can't connect a TCP socket for specific IP destination address and TCP port.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Unable to setup a TCP connection for socket `%sock%` on `%ip%:%port%` error `%err%`

Message Parameters

Name	Type
sock	sInt
ip	SockAddr
port	uInt
err	sInt

NetTools.InitVLANLibFail

Description

Failed initializing the VLAN Library

Remedy

Restart the netTools application, if it continues to fail get in touch with Extreme Networks techsupport.

Severity

Error

Message Text

VLAN Library initialization failed.

NetTools.BindICMPSockFail

Description

Can't bind ICMP socket to local address.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Unable to bind ICMP socket `%sock%` to `%ip%` error `%err%`

Message Parameters

Name	Type
sock	sInt
ip	SockAddr
err	sInt

NetTools.RxUDPPingReply

Description

An incoming UDP echo packet from the mentioned socket was received.

Remedy

This is for debug purposes and should only be enabled on request of Extreme Networks technical support.

Severity

Debug-Verbose

Message Text

UDP packet from `%sip%:%spo%` on socket `%sock%-%vrid%` type `%type%` code `%code%`

Message Parameters

Name	Type
sip	srcIPN
spo	srcL4port
sock	sInt
vrid	uInt
type	uInt
code	uInt

NetTools.BindEchoSockFail

Description

Failed to bind the UDP Echo server port for the specified virtual router.

Remedy

This could happen if the specified port is already used by the switch for another service.

Severity

Error

Message Text

Failed to bind UDP Echo server to UDP port `%port%` for virtual router number `%vrid%`

Message Parameters

Name	Type
port	L4port
vrid	uInt16

NetTools.AllocPFSockFail

Description

Cannot allocate a system resource for receiving and sending PF_PACKET datagrams.

Remedy

For some reason it's not possible to allocate a socket. Please restart the netTools application. If this does not solve it get in touch with Extreme Networks techsupport.

Severity

Error

Message Text

Cannot allocate PF_PACKET socket for protocol `%prot%` error `%error%`

Message Parameters

Name	Type
prot	uInt16
error	sInt

NetTools.ProcTrackingEvent

Description

This message can be used for debugging the netTools ping tracking module.

Remedy

Restart the netTools application, if it continues to fail get in touch with Extreme Networks techsupport.

Severity

Debug-Verbose

Message Text

Received event `%event%` for target `%ip%`, VR id `%vrid%`, freq `%freq%`, misses `%cfgMis%` (`%curMis%`), successes `%cfgSucc%`(`%curSucc%`)

Message Parameters

Name	Type
event	uInt
ip	dstSockAddr
vrid	uInt
freq	uInt
cfgMis	uInt16
curMis	uInt16
cfgSsucc	uInt16
curSucc	uInt16

NetTools.AllocEPFSockFail

Description

Cannot allocate a system resource for receiving and sending PF_EXOS_PACKET datagrams.

Remedy

For some reason it's not possible to allocate a socket. Please restart the netTools application. If this does not solve it get in touch with Extreme Networks techsupport.

Severity

Error

Message Text

Cannot allocate PF_EXOS_PACKET socket for protocol `%prot%` error `%error%`

Message Parameters

Name	Type
prot	uInt16
error	sInt

NetTools.PingTrackAddFail

Description

Application using ping tracking feature may not get notified if the particular ping-track IP address fails. Try deleting another entry to free up resources and re-adding. If that fails, a reboot may be required.

Remedy

Restart the netTools application, if it continues to fail get in touch with Extreme Networks techsupport.

Severity

Warning

Message Text

Ping Track Add Failed: vrid:`%vrid%` IP:`%ipAddress%` peerId:`%peerId%` pingId:`%pingId%` rc=`%rc%`

Message Parameters

Name	Type
vrid	uInt16
ipAddress	SockAddr
peerId	sInt
pingId	sInt32
rc	sInt32

NetTools.PingTrackDelFail

Description

Ping tracking entry was unable to be deleted on the server. This occurs only if peerId was not found, in which case it would appear to have already been deleted.

Remedy

Message is informational on non-service affecting de

Severity

Info

Message Text

Ping Track Delete Failed: peerId:`%peerId%` pingId:`%pingId%` rc=`%rc%`

Message Parameters

Name	Type
peerId	sInt
pingId	sInt32
rc	sInt32

NetTools.PingTrackAdd

Description

Debug log to verify nettools server received ping track ADD request.

Remedy

Restart the netTools application, if it continues to fail get in touch with Extreme Networks techsupport.

Severity

Debug-Summary

Message Text

Ping Track Add Request Received: vrid:`%vrid%` IP:`%ipAddress%` peerId:`%peerId%` pingId:`%pingId%`

Message Parameters

Name	Type
vrid	uInt16
ipAddress	SockAddr

Name	Type
peerId	sInt32
pingId	sInt32

NetTools.PingTrackDel

Description

Debug log to verify nettools server received ping track DELETE request.

Remedy

Restart the netTools application, if it continues to fail get in touch with Extreme Networks techsupport.

Severity

Debug-Summary

Message Text

Ping Track Delete Request Received: peerId:`%peerId%` pingId:`%pingId%`

Message Parameters

Name	Type
peerId	sInt
pingId	sInt

NetTools.TCPPortTrackAdd

Description

Debug log to verify netTools server received TCP port track ADD request.

Remedy

Restart the netTools application, if it continues to fail get in touch with Extreme Networks techsupport.

Severity

Debug-Summary

Message Text

TCP Port Track Add Request Received: vrid:`%vrid%` IP:`%ipAddress%` port:`%port%` freq:`%freq%` missesLimit:`%missesLimit%` successesLimit:`%successesLimit%` peerId:`%peerId%` tcpPortTrackId:`%tcpPortTrackId%`

Message Parameters

Name	Type
vrid	uInt16
ipAddress	SockAddr
port	uInt16
freq	uInt16
missesLimit	uInt16
successesLimit	uInt16
peerId	sInt32
tcpPortTrackId	sInt32

NetTools.TCPPortTrackDel

Description

Debug log to verify netTools server received tcp port track DELETE request.

Remedy

Restart the netTools application, if it continues to fail get in touch with Extreme Networks techsupport.

Severity

Debug-Summary

Message Text

TCP Port Track Delete Request Received: peerId:`%peerId%` tcpPortTrackId:`%tcpPortTrackId%`

Message Parameters

Name	Type
peerId	sInt32
tcpPortTrackId	sInt32

NetTools.TCPPortTrackAddFail

Description

Application using TCP Port tracking feature may not get notified if the particular ping-track IP address fails. Try deleting another entry to free up resources and re-adding. If that fails, a reboot may be required.

Remedy

Restart the netTools application, if it continues to fail get in touch with Extreme Networks techsupport.

Severity

Warning

Message Text

TCP Port Track Add Failed: vrid:`%vrid%` IP:`%ipAddress%` port:`%port%` peerId:`%peerId%` tcpPortTrackId:`%tcpPortTrackId%` rc=`%rc%`

Message Parameters

Name	Type
vrid	uInt16
ipAddress	SockAddr
port	uInt16
peerId	sInt
tcpPortTrackId	sInt32
rc	sInt32

NetTools.TCPPortTrackDelFail

Description

TCP Port tracking entry could not be deleted on the server. This occurs only if peerId was not found, in which case it would appear to have already been deleted.

Remedy

Message is informational

Severity

Info

Message Text

TCP Port Track Delete Failed: peerId:`%peerId%` tcpPortTrackId:`%tcpPortTrackId%` rc=`%rc%`

Message Parameters

Name	Type
peerId	sInt
tcpPortTrackId	sInt32
rc	sInt32

NetTools.TCPPortTrackConnected

Description

Debug log to note that TCP connection was established

Remedy

Not Applicable.

Severity

Debug-Summary

Message Text

TCP Port Track - TCP Connection established to IP:`%ipAddress%` port:`%port%`

Message Parameters

Name	Type
ipAddress	SockAddr
port	uInt16

NetTools.TCPPortTrackConnectFail

Description

Debug log to note that TCP connect failed

Remedy

Not Applicable.

Severity

Debug-Summary

Message Text

TCP Port Track - Unable to establish TCP Connection to IP:`%ipAddress%` port:`%port%`

Message Parameters

Name	Type
ipAddress	SockAddr
port	uInt16

NetTools.TCPPortTrackEntryAddOK

Description

Debug log to note that TCP Port Track Entry was created

Remedy

Not Applicable.

Severity

Debug-Summary

Message Text

TCP Port Track Entry (tcpPortTrackId:`%tcpPortTrackId%`) added for IP:`%ipAddress%` port:`%port%`

Message Parameters

Name	Type
tcpPortTrackId	sInt32
ipAddress	SockAddr
port	uInt16

NetTools.TCPPortTrackEntryDelOK

Description

Debug log to note that TCP Port Track Entry was deleted

Remedy

Not Applicable.

Severity

Debug-Summary

Message Text

TCP Port Track Entry (tcpPortTrackId:`%tcpPortTrackId%`) deleted for IP:`%ipAddress%` port:`%port%`

Message Parameters

Name	Type
tcpPortTrackId	sInt32
ipAddress	SockAddr
port	uInt16

NetTools.TCPPortTrackMaxEntries

Description

Warning to note that number of TCP Port Track Entries has reached its maximum limit

Remedy

Delete the unwanted TCP Port Track Entries. For more help get in touch with Extreme Networks techsupport.

Severity

Warning

Message Text

Number of TCP Port Track Entries has reached its maximum limit.

NetTools.TCPPortTrackOKNotify

Description

Info that the client was notified of a successful connection

Remedy

Not Applicable.

Severity

Info

Message Text

TCP Port Track - Notified the client for successfully connecting to IP:`%ipAddress%` port:`%port%`

Message Parameters

Name	Type
ipAddress	SockAddr
port	uInt16

NetTools.TCPPortTrackFailNotify

Description

Info that the client was notified of an unsuccessful connection

Remedy

Not Applicable.

Severity

Info

Message Text

TCP Port Track - Notified the client for failing to connect to IP:`%ipAddress%` port:`%port%`

Message Parameters

Name	Type
ipAddress	SockAddr
port	uInt16

NetTools.TCPPortTrackDebug

Description

Used for debugging purposes

Remedy

Not Applicable.

Severity

Debug-Summary

Message Text

:`%reason%`

Message Parameters

Name	Type
reason	Printf

NetTools.DebugSummary

Description

This message is displayed when a software error has occured.

Remedy

Please contact Extreme Networks with the error message and the conditions under which it occured.

Severity

Debug-Summary

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

NetTools.Error

Description

This message is displayed when a software error has occured.

Remedy

Please contact Extreme Networks with the error message and the conditions under which it occured.

Severity

Error

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

NetTools.TCPSockGetPeerNameFail

Description

Could not contact server listening at IP destination address and TCP port.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Debug-Summary

Message Text

Could not contact TCP Peer at `%ip%:%port%` socket `%sock%` error `%err%`

Message Parameters

Name	Type
sock	sInt
ip	SockAddr
port	uInt
err	sInt

NetTools.SockBindVLANFail

Description

Could not bind socket to the specified VLAN device.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

Error

Message Text

Unable to bind socket to VLAN:`%vlan%`; `%reason%`

Message Parameters

Name	Type
vlan	VLAN
reason	String

NetTools.SendCkptData

Description

Ping/Traceroute MIB Checkpointing Data was sent from master to backup node

Remedy

NA

Severity

Debug-Summary

Message Text

Ping/Traceroute MIB Checkpointing Data was sent from master to backup node

NetTools.RecvCkptData

Description

Ping/Traceroute MIB Checkpointing Data was received on backup from master node

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Ping/Traceroute MIB Checkpointing Data was received on backup from master node

NetTools.IPv6HopLmtMisMatch

Description

A deprecated command was used that allowed configuration of the IPv6 hop-limit only for Router Advertisements. According to RFC 4861, the IPv6 hop-limit configuration of the local VLAN interface must be the same as the advertised hop-limit in outgoing Router Advertisements. A mismatch may lead to unexpected network problems like dropped packets. The Router Advertisement hop-limit will revert to interface hop-limit value when either the interface hop-limit is configured or the system reboots.

Remedy

Use "configure ipv6 hop-limit" command to specify a hop-limit for the local VLAN interface as well as for outgoing router advertisements. It is flexible enough to allow specifying a value of zero for router advertisements and a non-zero value for the local interface.

Severity

Warning

Message Text

IPv6 hop-limit mismatch on `%vlan%`: Interface hop-limit is `%vhl%` and zero-in-ra is `%unspec%`, while Router Advertisement hop-limit is `%rahl%`

Message Parameters

Name	Type
vlan	String
vhl	uInt8
unspec	uInt
rahl	uInt8

NetTools.SetSockVRFFail

Description

Can't bind to VRF for specified socket.

Remedy

Try to replicate this issue and report it to the Extreme Networks technical support center.

Severity

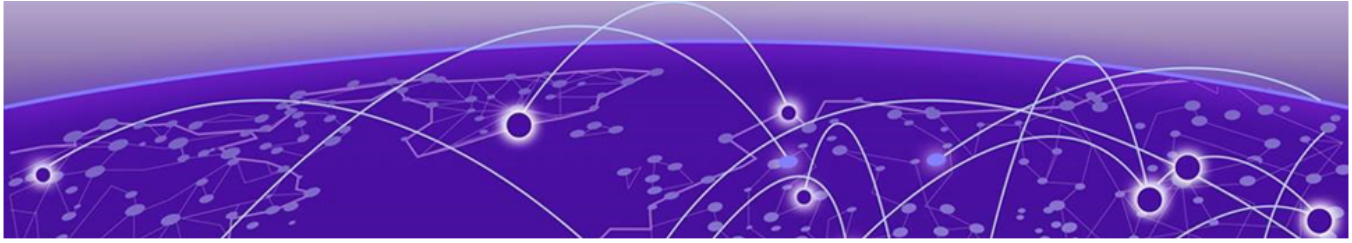
Error

Message Text

Unable to bind to VRF `%vrf%` for socket `%socket%-%type%` error `%error%`

Message Parameters

Name	Type
vrf	String
socket	sInt
type	uInt
error	sInt



NetTools.DNSClient Messages

NetTools.DNSClient.DmnName on page 3480
NetTools.DNSClient.TryNum on page 3481
NetTools.DNSClient.NetSrvr on page 3481
NetTools.DNSClient.SrvrRtrnCode on page 3482
NetTools.DNSClient.TryRslvAsIs on page 3482
NetTools.DNSClient.ReqNotFnd on page 3483
NetTools.DNSClient.RxPktInv on page 3483
NetTools.DNSClient.IPAddrInv on page 3484
NetTools.DNSClient.NetSrvrNotCfg on page 3484
NetTools.DNSClient.RslvSrchFail on page 3485
NetTools.DNSClient.SrchReq on page 3485
NetTools.DNSClient.TryNxtSrvr on page 3486
NetTools.DNSClient.RetrySrchReq on page 3486
NetTools.DNSClient.SrchReqFail on page 3487
NetTools.DNSClient.RslvSendFail on page 3488
NetTools.DNSClient.TryRslvHostDmn on page 3488
NetTools.DNSClient.NetToolsNotCnct on page 3489
NetTools.DNSClient.NetToolsRdy on page 3489
NetTools.DNSClient.NetToolsNotRdy on page 3490
NetTools.DNSClient.AllocBufFail on page 3490

NetTools.DNSClient.DmnName

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

dnsInfoTrace: `%from%` Domain `%domain%`

Message Parameters

Name	Type
domain	String
from	String

NetTools.DNSClient.TryNum

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

dnsInfoTrace: `%from%` Try number `%try%`

Message Parameters

Name	Type
try	sInt32
from	String

NetTools.DNSClient.NetSrvr

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

dnsInfoTrace: `%from%` Network server number `%ns%`

Message Parameters

Name	Type
ns	sInt32
from	String

NetTools.DNSClient.SrvrRtrnCode

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Return Code Received from server `%retcode%`

Message Parameters

Name	Type
retcode	sInt32

NetTools.DNSClient.TryRslvAsIs

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Try to resolve without concatenating domain name. Called from `%from%`

Message Parameters

Name	Type
from	String

NetTools.DNSClient.ReqNotFnd

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Could not find DNS request in socket DNS list.

NetTools.DNSClient.RxPktInv

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Error in receving packet error:`%bytes%`

Message Parameters

Name	Type
bytes	sInt

NetTools.DNSClient.IPAddrInv

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

`%addr%` is not a valid IP address

Message Parameters

Name	Type
addr	String

NetTools.DNSClient.NetSrvrNotCfg

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

No dns search network servers configured.

NetTools.DNSClient.RslvSrchFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

resSearch Failed retval `%retval%`

Message Parameters

Name	Type
retval	uInt

NetTools.DNSClient.SrchReq

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

DNS Search request name:`%name%` domain:`%domain%`

Message Parameters

Name	Type
name	String
domain	String

NetTools.DNSClient.TryNxtSrvr

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

Timeout now try Network Server number `%number%`

Message Parameters

Name	Type
number	uInt

NetTools.DNSClient.RetrySrchReq

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

Time Out retry now at `%retry%`

Message Parameters

Name	Type
retry	uInt

NetTools.DNSClient.SrchReqFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

Time Out No more options retry at `%retry%`

Message Parameters

Name	Type
retry	uInt

NetTools.DNSClient.RslvSendFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

resolvSend Failed retval `%retval%`

Message Parameters

Name	Type
retval	uInt

NetTools.DNSClient.TryRslvHostDmn

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Try domain `%domain%`

Message Parameters

Name	Type
domain	String

NetTools.DNSClient.NetToolsNotCnct

Description

DNS client has not connected to dns client server on netTools, all requests are queued until connected.

Remedy

Check that netTools is up and running.

Severity

Warning

Message Text

DNS Client not connnected to netTools ,queue request `%name%`

Message Parameters

Name	Type
name	String

NetTools.DNSClient.NetToolsRdy

Description

Nettools has is now ready, process all queued requests.

Remedy

No remedy is available.

Severity

Info

Message Text

Process all DNS requests on queue.

NetTools.DNSClient.NetToolsNotRdy

Description

DNS client has to wait until netTools is in the ready state, this occurs once netTools has loaded it's confiugration (if it has a configuration).

Remedy

No remedy is available.

Severity

Warning

Message Text

Nettools not in ready State.

NetTools.DNSClient.AllocBufFail

Description

No description is available.

Remedy

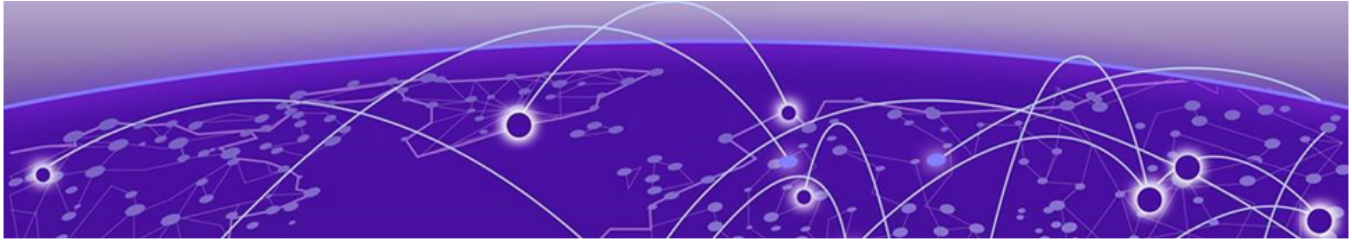
No remedy is available.

Severity

Warning

Message Text

Could not allocate DNS reply buffer



NetTools.DNSProxy Messages

NetTools.DNSProxy.CreatFail on page 3491
NetTools.DNSProxy.AllocFail on page 3492
NetTools.DNSProxy.SendReqFail on page 3492
NetTools.DNSProxy.SendRspnsFail on page 3493
NetTools.DNSProxy.SendSysReqFail on page 3493
NetTools.DNSProxy.AllocSysReqFail on page 3494
NetTools.DNSProxy.SendSysRspnsFail on page 3494
NetTools.DNSProxy.AllocSysSockFail on page 3495
NetTools.DNSProxy.SetSysSockFail on page 3495

NetTools.DNSProxy.CreatFail

Description

EXOS was unable to create a DNS proxy for the VLAN mentioned.

Remedy

No remedy is available.

Severity

Error

Message Text

Could not create DNS proxy for VLAN `%vlanname%`

Message Parameters

Name	Type
vlanname	VLAN

NetTools.DNSProxy.AllocFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Could not allocate memory for proxy DNS request from VLAN `%vlanname%`

Message Parameters

Name	Type
vlanname	VLAN

NetTools.DNSProxy.SendReqFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Unable to send proxied DNS request for VLAN `%vlanname%`

Message Parameters

Name	Type
vlanname	VLAN

NetTools.DNSProxy.SendRspnsFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Could not send DNS response to VLAN `%vlanname%` client `%saddr%`

Message Parameters

Name	Type
saddr	SockAddr
vlanname	VLAN

NetTools.DNSProxy.SendSysReqFail

Description

The DNS proxy for system-level DNS requests could not send the proxied request to a DNS server. As a result, a DNS query will fail to complete.

Remedy

This could be a transient failure due to limited system resources; however, if the problem continues, please contact technical support.

Severity

Warning

Message Text

Unable to send a system-level proxied DNS request

NetTools.DNSProxy.AllocSysReqFail

Description

The DNS proxy for system-level DNS requests could not allocate memory necessary to send the proxied request to a DNS server. As a result, a DNS query will fail to complete.

Remedy

This could be a transient failure due to limited system resources; however, if the problem continues, please contact technical support.

Severity

Error

Message Text

Could not allocate memory for system-level proxy DNS request

NetTools.DNSProxy.SendSysRspnsFail

Description

The DNS proxy for system-level DNS requests could not send the DNS response back to the original requestor. As a result, a DNS query will fail to complete.

Remedy

This could be a transient failure due to limited system resources; however, if the problem continues, please contact technical support.

Severity

Warning

Message Text

Could not send DNS response for system-level request

NetTools.DNSProxy.AllocSysSockFail

Description

The DNS proxy for system-level DNS requests could not open a socket to a DNS server. As a result, a DNS query will fail to complete.

Remedy

This could be a transient failure due to limited system resources; however, if the problem continues, please contact technical support.

Severity

Error

Message Text

Could not create a socket for system-level DNS proxy requests (`%errormsg%`)

Message Parameters

Name	Type
errormsg	String

NetTools.DNSProxy.SetSysSockFail

Description

The DNS proxy for system-level DNS requests could not set the specified socket option on a socket to a DNS server. As a result, a DNS query will likely fail to complete.

Remedy

This could be a transient failure due to limited system resources; however, if the problem continues, please contact technical support.

Severity

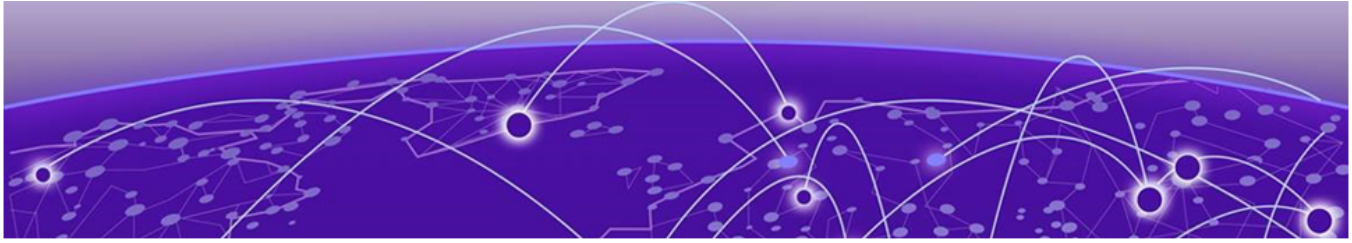
Warning

Message Text

Could not set socket option \"`%option%`\" for system-level DNS proxy requests (`%errormsg%`)

Message Parameters

Name	Type
option	String
errormsg	String



NetTools.NAT Messages

NetTools.NAT.ParmNull on page 3497
NetTools.NAT.ParmInv on page 3498
NetTools.NAT.AllocMemFail on page 3498
NetTools.NAT.SchedTimerFail on page 3499
NetTools.NAT.AllocInstFail on page 3500
NetTools.NAT.DebugData on page 3500
NetTools.NAT.CreatDynNATRule on page 3501
NetTools.NAT.AgeOutDynNATRule on page 3502
NetTools.NAT.CfgNFTFail on page 3502

NetTools.NAT.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on the switch configuration by collecting the outputs of "show tech-support", "show ip nat", "show ip nat vlan" and "show ip nat rule" commands. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Argument `%arg%` is NULL

Message Parameters

Name	Type
arg	String

NetTools.NAT.ParmInv

Description

Provide technical support information on the switch configuration by collecting the outputs of "show tech-support", "show ip nat", "show ip nat vlan" and "show ip nat rule" commands. Also, check the scalability limit and compare this with the current configuration.

Remedy

Provide technical support information on the switch configuration. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Argument `%arg%` has an invalid value `%val%`

Message Parameters

Name	Type
arg	String
val	uInt32

NetTools.NAT.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect network address translation operations.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory. Once sufficient system memory is

reclaimed, it is recommended that netTools process be restarted for internal state to be fully rebuilt.

Severity

Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure of size `%size%`.

Message Parameters

Name	Type
obj	String
size	uInt32

NetTools.NAT.SchedTimerFail

Description

NAT failed to schedule a timer. Failure to schedule timers will result in incorrect operation of periodic or time-bound events in NAT's operation. This is not expected and is indicative of a serious problem.

Remedy

Check free memory available on the system using the "show memory" command. If there is sufficient memory try restarting netTools. If the issue persists, on systems with backup nodes try failing over to the backup. Standalone systems may require a reboot to correct the problem.

Severity

Error

Message Text

NAT failed to schedule an internal timer: `%name%` initialization failed with error: `%error%`)

Message Parameters

Name	Type
name	String
error	String

NetTools.NAT.AllocInstFail

Description

Instance for the displayed object could not be allocated.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Instance allocation failed when trying to allocate an instance for `%obj%` structure.

Message Parameters

Name	Type
obj	String

NetTools.NAT.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

NetTools.NAT.CreatDynNATRule

Description

A dynamic NAT rule got created.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Dynamic NAT rule `%ruleName%` mapping IP `%ipAddr%` port `%port%` on `%vrName%` to IP `%newIpAddr%` port `%newPort%` on `%newVrName%` for protocol `%protocol%` got created

Message Parameters

Name	Type
ruleName	String
ipAddr	srcIPv4
port	srcL4port
vrName	VR
newIpAddr	dstIPv4
newPort	srcL4port
newVrName	VR
protocol	uInt8

NetTools.NAT.AgeOutDynNATRule

Description

A dynamic NAT rule has aged out and has been removed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Dynamic NAT rule `%ruleName%` has aged out and is removed

Message Parameters

Name	Type
ruleName	String

NetTools.NAT.CfgNFTFail

Description

NFT command execution resulted in error. This might affect network translation of slowpath forwarded traffic.

Remedy

No action required - Informational message only.

Severity

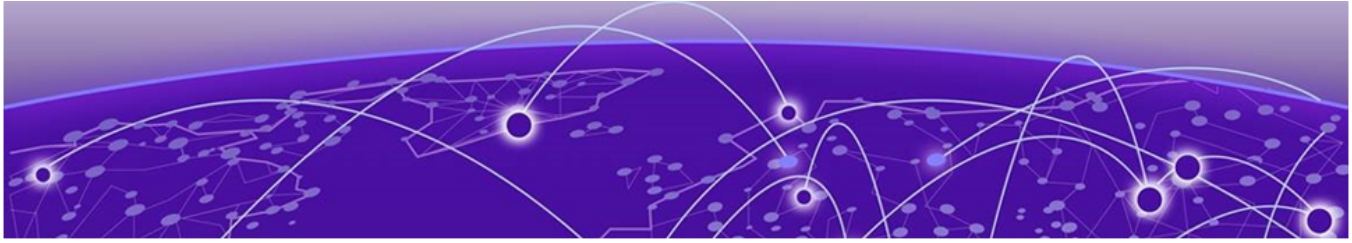
Debug-Verbose

Message Text

NFT command error `%error%` when executing `%command%`

Message Parameters

Name	Type
error	String
command	String



NetTools.RouterAdv Messages

NetTools.RouterAdv.EnblIPv6RtrDiscFail on page 3504
NetTools.RouterAdv.SchdRtrAdvertFail on page 3505
NetTools.RouterAdv.VLANCfgNotFnd on page 3506
NetTools.RouterAdv.AdvertStateNotFnd on page 3506
NetTools.RouterAdv.AdvertInvCfg on page 3507
NetTools.RouterAdv.AdvertPrefixInvCfg on page 3507
NetTools.RouterAdv.VLANNotExist on page 3508
NetTools.RouterAdv.AddrNotLinkLoc on page 3509
NetTools.RouterAdv.AdvertInvPktShort on page 3509
NetTools.RouterAdv.AdvertHopLmtInv on page 3510
NetTools.RouterAdv.AdvertInvOptLenZero on page 3510
NetTools.RouterAdv.AdvertInvICMPCodNotZero on page 3511
NetTools.RouterAdv.AdvertInvParseFail on page 3512
NetTools.RouterAdv.AdvertPrefixInv on page 3512
NetTools.RouterAdv.ICMP6IfNotFnd on page 3513
NetTools.RouterAdv.SockInitFail on page 3514
NetTools.RouterAdv.InitRtrDiscMcastFail on page 3514
NetTools.RouterAdv.DebugTrace on page 3515
NetTools.RouterAdv.DNSSLSfxTxFail on page 3515
NetTools.RouterAdv.AdvertRDNSSOptLenInv on page 3516
NetTools.RouterAdv.RxAdvertRDNSSOpt on page 3517
NetTools.RouterAdv.LkupRDNSSAddrFail on page 3517
NetTools.RouterAdv.AdvertRDNSSOptLftimeInv on page 3518
NetTools.RouterAdv.AdvertDNSSLOptLenInv on page 3519
NetTools.RouterAdv.RxAdvertDNSSLOpt on page 3520
NetTools.RouterAdv.LkupDNSSLSfxFail on page 3520
NetTools.RouterAdv.AdvertDNSSLOptLftimeInv on page 3521

NetTools.RouterAdv.EnblIPv6RtrDiscFail

Description

EXOS was unable to enable the sending of ICMP6 Router Advertisement packets to iPv6 hosts for the given vlan.

Remedy

The most likely cause of this error is lack of available memory.

Severity

Error

Message Text

Cannot enable IPv6 Router Discovery for vlan `%vlanName%`

Message Parameters

Name	Type
vlanName	VLAN

NetTools.RouterAdv.SchdRtrAdvertFail

Description

EXOS was unable to schedule the periodic sending of a multicast Router Advertisement for the given vlan.

Remedy

Disable routerdiscovery on the given vlan, and then enable it again.

Severity

Error

Message Text

Error scheduling periodic Router Advertisement for vlan `%vlanName%`

Message Parameters

Name	Type
vlanName	VLAN

NetTools.RouterAdv.VLANCfgNotFnd

Description

When attempting to send a Router Advertisement for a particular VLAN, the configuration for that VLAN could not be located and the Router Advertisement was not sent.

Remedy

No remedy is available.

Severity

Warning

Message Text

IP6 Router Advertisement could not locate the configuration for VLAN instance `%vlanIfInstance%`

Message Parameters

Name	Type
vlanIfInstance	uInt32

NetTools.RouterAdv.AdvertStateNotFnd

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Could not locate Router Advertisement state for VLAN `%vlanName%`

Message Parameters

Name	Type
vlanName	VLAN

NetTools.RouterAdv.AdvertInvCfg

Description

Indicates a misconfiguration between routers on a locally attached subnet.

Remedy

No remedy is available.

Severity

Warning

Message Text

Received Router Advertisement on vlan `%vlanName%` from `%otherRouter%` with a `%fieldName%` = `%otherVal%` which differs from the local configuration `%localVal%`

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
fieldName	String
otherVal	uInt
localVal	uInt

NetTools.RouterAdv.AdvertPrefixInvCfg

Description

Indicates a misconfiguration between routers on a locally attached subnet.

Remedy

No remedy is available.

Severity

Warning

Message Text

Received Router Advertisement on VLAN `%vlanName%` from `%otherRouter%` containing prefix `%prefix%` where `%fieldName%` differs from the local configuration (`%otherVal%` != `%localVal%`)

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
prefix	IPv6
fieldName	String
otherVal	uInt
localVal	uInt

NetTools.RouterAdv.VLANNotExist

Description

A Router Advertisement was received from another IPv6 router, but the configuration information for the vlan cannot be found.

Remedy

No remedy is available.

Severity

Warning

Message Text

Cannot process Router Advertisement from `%otherRouter%`: no such VLAN

Message Parameters

Name	Type
otherRouter	IPv6

NetTools.RouterAdv.AddrNotLinkLoc

Description

RFC2461 states that Router Advertisements must be sent from an IPv6 Link Local address. The router which sent the Router Advertisement has been misconfigured.

Remedy

No remedy is available.

Severity

Warning

Message Text

Cannot process Router Advertisement received from `%otherRouter%` on vlan `%vlanName%`, because it is not a link local address.

Message Parameters

Name	Type
otherRouter	IPv6
vlanName	VLAN

NetTools.RouterAdv.AdvertInvPktShort

Description

A Router Advertisement packet was received which is smaller than the minimum size for a Router Advertisement. The router which sent the packet is misconfigured.

Remedy

No remedy is available.

Severity

Warning

Message Text

received bad Router Advertisement on vlan `%vlanName%` from `%sourceAddress%` : packet is too small (`%packetLen%` bytes)

Message Parameters

Name	Type
vlanName	VLAN
sourceAddress	IPv6
packetLen	uInt

NetTools.RouterAdv.AdvertHopLmtInv

Description

RFC2461 states that Router Advertisements must contain a hop limit of 255, but a packet was received which did not. This means either that the other router is misconfigured and is sending the packet with an invalid hop count, or there is a network problem causing link local ICMP6 packets to be inappropriately routed.

Remedy

No remedy is available.

Severity

Warning

Message Text

received bad Router Advertisement on vlan `%vlanName%` from `%sourceAddress%` : hop limit (`%hopLimit%`) is not 255

Message Parameters

Name	Type
vlanName	VLAN
sourceAddress	IPv6
hopLimit	uInt

NetTools.RouterAdv.AdvertInvOptLenZero

Description

Option headers for ICMP6 Router Advertisements have a length specified in multiples of 8 bytes. A length of zero is nonsensical, and the router which sent this packet has been misconfigured.

Remedy

No remedy is available.

Severity

Warning

Message Text

Received bad Router Advertisement on VLAN `%vlanName%` from `%sourceAddress%` : Option length for code `%optCode%` is zero

Message Parameters

Name	Type
vlanName	VLAN
sourceAddress	IPv6
optCode	uInt

NetTools.RouterAdv.AdvertInvICMPCodNotZero

Description

RFC2461 states that Router Advertisements must contain an ICMP Code of zero. A packet was received which does not. This may indicate misconfiguration of the other router.

Remedy

No remedy is available.

Severity

Warning

Message Text

received bad Router Advertisement on vlan `%vlanName%` from `%sourceAddress%` : ICMP Code `%icmpCode%` is not zero

Message Parameters

Name	Type
vlanName	VLAN
sourceAddress	IPv6
icmpCode	uInt

NetTools.RouterAdv.AdvertInvParseFail

Description

A Router Advertisement was received which cannot be parsed. The router which sent it may be misconfigured.

Remedy

No remedy is available.

Severity

Warning

Message Text

received bad Router Advertisement on vlan `%vlanName%` from `%sourceAddress%` : Cannot parse the packet

Message Parameters

Name	Type
vlanName	VLAN
sourceAddress	IPv6

NetTools.RouterAdv.AdvertPrefixInv

Description

Indicates a misconfiguration in another router on a locally attached subnet.

Remedy

No remedy is available.

Severity

Warning

Message Text

Received Router Advertisement on vlan `%vlanName%` from `%otherRouter%` containing prefix `%prefix%` which is invalid (`%reasonInvalid%`)

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
prefix	IPv6
reasonInvalid	String

NetTools.RouterAdv.ICMP6IfNotFnd

Description

An ICMP6 packet was received, but could not be associated with any vlan.

Remedy

No remedy is available.

Severity

Warning

Message Text

Cannot process packet from `%sourceAddr%`: no interface

Message Parameters

Name	Type
sourceAddr	IPv6

NetTools.RouterAdv.SockInitFail

Description

The IP6 Router Discovery module did not initialize successfully, because the socket could not be created.

Remedy

No remedy is available.

Severity

Error

Message Text

Cannot initialize IP6 Router Discovery socket (condition `%errorCode%`)

Message Parameters

Name	Type
errorCode	uInt32

NetTools.RouterAdv.InitRtrDiscMcastFail

Description

IP6 Router Advertisement did not initialize correctly on the given vlan, because the multicast group could not be joined.

Remedy

No remedy is available.

Severity

Error

Message Text

Cannot initialize IP6 Router Discovery multicast for VLAN `%vlanName%` (condition `%errorCode%`)

Message Parameters

Name	Type
vlanName	VLAN
errorCode	uInt

NetTools.RouterAdv.DebugTrace

Description

Developer Debug Trace

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

NetTools.RouterAdv.DNSSLSfxTxFail

Description

There was a problem in adding the DNS suffix to the Router Advertisement packet for transmission over the specified interface. This will cause the suffix to not be present in the Router Advertisement message that is transmitted. This can happen if the configuration is invalid.

Remedy

Check the configuration and correct any inconsistencies found. Configuration can be verified by issuing a 'show router-discovery <vlan-name>'. Configuration can be corrected by the 'configure <vlan-name> router-discovery [add|delete] dnssl <dns_suffix>' command.

Severity

Error

Message Text

Error transmitting DNSSL suffix `%suffix%` as part of DNSSL option of Router Advertisement over vlan `%vlan%`

Message Parameters

Name	Type
suffix	String
vlan	VLAN

NetTools.RouterAdv.AdvertRDNSSOptLenInv

Description

This indicates a misconfiguration between routers on a locally attached subnet.

Remedy

Check the configuration on appropriate routers and make any configuration updates as needed. Locally, configuration can be verified by issuing a 'show router-discovery <vlan-name>'. Configuration can be corrected by the 'configure <vlan-name> router-discovery [add|delete] rdnss <ipaddress>' command.

Severity

Warning

Message Text

Received Router Advertisement on vlan `%vlanName%` from `%otherRouter%` with a RDNSS Option Length of `%optLen%` which is less than the minimum required length of `%minLen%`

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6

Name	Type
optLen	uInt
minLen	uInt

NetTools.RouterAdv.RxAdvertRDNSSOpt

Description

A Router Advertisement message with a RDNSS Option was received from a router on the same subnet.

Remedy

No action required. Informational message only.

Severity

Info

Message Text

Received Router Advertisement on vlan `%vlanName%` from `%otherRouter%` with a RDNSS Adddress `%addr%` and lifetime `%rxLfTm%`

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
addr	IPv6
rxLfTm	uInt

NetTools.RouterAdv.LkupRDNSSAddrFail

Description

The RDNSS address seems to be configured on the other router but not on the local router. This is possible as a transient when configurations are being updated on multiple routes or as a persistent because of a misconfiguration in one of the routers

Remedy

Check the configuration on appropriate routers and make any configuration updates as needed. Locally, configuration can be verified by issuing a 'show router-discovery <vlan-name>'. Configuration can be corrected by the 'configure <vlan-name> router-discovery [add|delete] rdnss <ipaddress>' command.

Severity

Warning

Message Text

RDNSS Address Lookup failed for received Router Advertisement on vlan `%vlanName%` from `%otherRouter%` with a RDNSS Adddress `%addr%`

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
addr	IPv6

NetTools.RouterAdv.AdvertRDNSSOptLftimeInv

Description

The RDNSS Lifetime value between two routers seem to not match. This is possible as a transient when configurations are being updated on multiple routes or as a persistent condition because of a misconfiguration in one of the routers

Remedy

Check the configuration on appropriate routers and make any configuration updates as needed. Locally, configuration can be verified by issuing a 'show router-discovery <vlan-name>'. Configuration can be corrected by one of the 'configure <vlan-name> router-discovery [add|delete] rdnss <ipaddress> {<rdnss_lifetime>}' or 'configure <vlan-name> router-discovery rdnss-lifetime <rdnss_lifetime>' command.

Severity

Warning

Message Text

Received Router Advertisement on vlan `%vlanName%` from `%otherRouter%` with a RDNSS Adddress `%addr%` and lifetime `%rxLfTm%` which differs from locally configured lifetime of `%cfgLfTm%`

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
addr	IPv6
rxLfTm	uInt
cfgLfTm	uInt

NetTools.RouterAdv.AdvertDNSSLOptLenInv

Description

This indicates a misconfiguration between routers on a locally attached subnet.

Remedy

Check the configuration on appropriate routers and make any configuration updates as needed. Locally, configuration can be verified by issuing a 'show router-discovery <vlan-name>'. Configuration can be corrected by the 'configure <vlan-name> router-discovery [add|delete] dnssl <dns_suffix>' command.

Severity

Warning

Message Text

Received Router Advertisement on vlan `%vlanName%` from `%otherRouter%` with a DNSSL Option Length of `%optLen%` which is less than the minimum required length of `%minLen%`

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6

Name	Type
optLen	uInt
minLen	uInt

NetTools.RouterAdv.RxAdvertDNSSLOpt

Description

A Router Advertisement message with a DNSSL Option was received from a router on the same subnet.

Remedy

No action required. Informational message only.

Severity

Info

Message Text

Received Router Advertisement on vlan `%vlanName%` from `%otherRouter%` with a DNSSL suffix `%suffix%` and lifetime `%rxLfTm%`

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
suffix	String
rxLfTm	uInt

NetTools.RouterAdv.LkupDNSSLSfxFail

Description

The DNSSL DNS suffix seems to be configured on the other router but not on the local router. This is possible as a transient when configurations are being updated on multiple routes or as a persistent because of a misconfiguration in one of the routers

Remedy

Check the configuration on appropriate routers and make any configuration updates as needed. Locally, configuration can be verified by issuing a 'show router-discovery <vlan-name>'. Configuration can be corrected by the 'configure <vlan-name> router-discovery [add|delete] dnssl <dns_suffix>' command.

Severity

Warning

Message Text

DNSSL Suffix Lookup failed for received Router Advertisement on vlan `%vlanName%` from `%otherRouter%` with a DNSSL suffix `%suffix%`

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
suffix	String

NetTools.RouterAdv.AdvertDNSSLOptLftimeInv

Description

The DNSSL Lifetime value between two routers seem to not match. This is possible as a transient when configurations are being updated on multiple routes or as a persistent condition because of a misconfiguration in one of the routers

Remedy

Check the configuration on appropriate routers and make any configuration updates as needed. Locally, configuration can be verified by issuing a 'show router-discovery <vlan-name>'. Configuration can be corrected by one of the 'configure <vlan-name> router-discovery [add|delete] dnssl <dns_suffix> {<dnssl_lifetime>}' or 'configure <vlan-name> router-discovery dnssl-lifetime <dnssl_lifetime>' command.

Severity

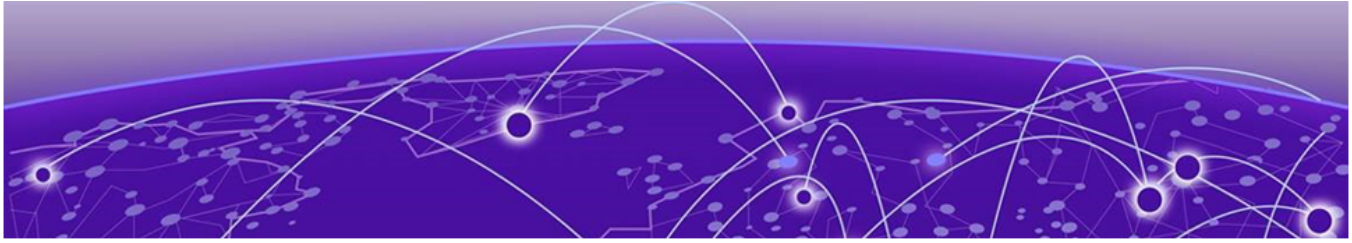
Warning

Message Text

Received Router Advertisement on vlan `%vlanName%` from `%otherRouter%` with a DNSSL suffix `%suffix%` and lifetime `%rxLfTm%` which differs from locally configured lifetime of `%cfgLfTm%`

Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
suffix	String
rxLfTm	uInt
cfgLfTm	uInt



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NetTools.SNTP.TxReqToSrvr

Description

No description is available.

Remedy

.

Severity

Info

Message Text

Send SNTP request to server `%serverAddr%`

Message Parameters

Name	Type
serverAddr	String

NetTools.SNTP.SrvrReqTmout

Description

Severs include: SNTP_PRIMARY 0 SNTP_SECONDARY 1 SNTP_BROADCAST 2 States include: SNTP_RECEIVED 1 SNTP_SENT 2 SNTP_RETRY 3

Remedy

.

Severity

Debug-Summary

Message Text

Sever type `%server%` timed out the state is `%state%`

Message Parameters

Name	Type
server	uInt
state	uInt

NetTools.SNTP.RxPktFmSrvr

Description

Severs include: SNTP_PRIMARY 0 SNTP_SECONDARY 1 SNTP_BROADCAST 2

Remedy

.

Severity

Debug-Summary

Message Text

Received `%rxSize%` bytes from server number `%server%`

Message Parameters

Name	Type
rxSize	uInt
server	uInt

NetTools.SNTP.PktRxInv

Description

No description is available.

Remedy

.

Severity

Debug-Summary

Message Text

Received invalid packet Leap version Mode `%leapVerMode%` transmit time stamp `%transmitTimestampSec%`

Message Parameters

Name	Type
leapVerMode	uInt
transmitTimestampSec	uInt64

NetTools.SNTP.PktRxVld

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Received Valid Packet

NetTools.SNTP.TimeOffset

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Offset is `%offset%`

Message Parameters

Name	Type
offset	uInt64

NetTools.SNTP.AdjTimeOfDay

Description

If the offset is less than 512000 micro seconds the timeofday will be gradually adusted by the offset.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Time of day adjusted by the time offset.

NetTools.SNTP.ResetTimeOfDay

Description

If the offset is greater than 512000 micro seconds the timeofday will be not be gradually adusted by the offset but it will be reset to the new time.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Offset is greater than 512000 micro sesconds.

NetTools.SNTP.OpenBcastUDPSockFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Broadcast Mode: Cannot open UDP SOCKET for SNTP

NetTools.SNTP.OpenUcastUDPSockFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Unicast Mode: Cannot open UDP SOCKET for SNTP

NetTools.SNTP.TxReqToSrvrFail

Description

No description is available.

Remedy

Check that server is reachable.

Severity

Warning

Message Text

Failed to send SNTP request to server `%serverAddr%`

Message Parameters

Name	Type
serverAddr	String

NetTools.SNTP.SrvrNameNotRslved

Description

The server host name has not been DNS resolved yet.

Remedy

If this message is seen repeatedly, check the validity of the hostname and your DNS configuration.

Severity

Warning

Message Text

Host name `%server%` is not DNS resolved yet

Message Parameters

Name	Type
server	String

NetTools.SNTP.SendCkptData

Description

SNTP Client Checkpointing Data was sent from master to backup node

Remedy

NA

Severity

Debug-Summary

Message Text

SNTP Client Checkpointing Data was sent from master to backup node

NetTools.SNTP.RecvCkptData

Description

SNTP Client Checkpointing Data was received on backup from master node

Remedy

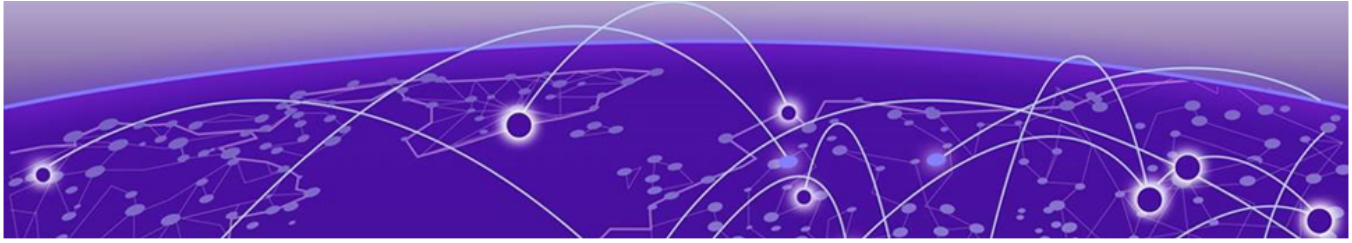
No remedy is available.

Severity

Debug-Summary

Message Text

SNTP Client Checkpointing Data was received on backup from master node



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nl.ProcessNextReqOnPif on page 3560
nl.AAATimeout on page 3561
nl.ClientAuthRespDrop on page 3561
nl.VSMClntInitFail on page 3562
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nl.init

Description

The Network Login framework was initialized.

Remedy

This is an informational message

Severity

Info

Message Text

Network Login framework has been initialized

nl.SubSysInitFail

Description

This error gets logged when one or more of the subsystems failed.

Remedy

This normally happens when communication with another component was not possible. Please check to see if the failing subsystem was running.

Severity

Error

Message Text

NetLogin framework failed to initialize the `%subsystem%` subsystem

Message Parameters

Name	Type
subsystem	String

nl.VPifHwStateChange

Description

This is a debug message used that can be used for hardware setup related NetLogin problems. It show the hardware state change.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Summary

Message Text

VPif[`%vlan%`, `%port%`] hardware state change from `%old%` to `%new%`, inState=`%ingress%`, egState=`%egress%`

Message Parameters

Name	Type
vlan	VLAN
port	SlotPort
old	String
new	String
ingress	xInt
egress	xInt

nl.VPifRegFail

Description

This is a debug message used that can be used for debugging hardware setup related NetLogin problems. It shows when we where not able to register a vpif with VLAN manager.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Verbose

Message Text

VPif[`%vlan%`, `%port%`] failed VmgrProtocolIfRegister()

Message Parameters

Name	Type
vlan	VLAN
port	SlotPort

nl.VPifDeRegFail

Description

This is a debug message used that can be used for debugging hardware setup related NetLogin problems. It shows when we where not able to unregister a vpif with VLAN manager.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Verbose

Message Text

VPif[`%vlan%`, `%port%`] failed VmgrProtocolIfDeRegister()

Message Parameters

Name	Type
vlan	VLAN
port	SlotPort

nl.VPifSetStateFail

Description

This is a debug message used that can be used for debugging hardware setup related NetLogin problems. It shows when we where not able to unregister a vpif with VLAN manager.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Verbose

Message Text

VPif[%vlan%, %port%] failed vMngrSetIfState() for inState=0x%in%, egState=0x%eg%

Message Parameters

Name	Type
vlan	VLAN
port	SlotPort
in	xInt32
eg	xInt32

nl.VPifStateChange

Description

This is a debug message used that can be used to debug vport state changes. It will show the old state, and the new vport state.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Summary

Message Text

VPif[%vlan%, %port%] state change from %old% to %new%.

Message Parameters

Name	Type
vlan	VLAN
port	SlotPort
old	String
new	String

nl.SetNetLoginVlanFail

Description

NetLogin framework failed to set the NetLogin VLAN.

Remedy

NetLogin VLAN could not be set by VLAN Manager. Verify that the criteria for a NetLogin VLAN are met (no ports configured, ipforwarding disabled).

Severity

Error

Message Text

Failed to configure the NetLogin VLAN to `%vlan%`, reason `%ret%`

Message Parameters

Name	Type
vlan	VLAN
ret	uInt

nl.ClientStateChange

Description

This is a debug message used that can be used to debug client authentication. It will show the state changes for all clients moving from unauthenticated to authenticated and the other way around.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Summary

Message Text

Client [`%mac%`, `%port%`] state change from `%old%` to `%new%`.

Message Parameters

Name	Type
port	SlotPort
mac	MAC
old	String
new	String

nl.NetLoginVlanAddFail

Description

NetLogin needs to add all port enabled for NetLogin to the NetLogin VLAN. For some reason this failed for the mentioned VLAN on the specific port.

Remedy

This should only happen if the NetLogin VLAN has not been configured correctly. i.e. IP-Forwarding disabled, a valid TAG is assigned, and no ports are added. The result for now is always zero, this migth change in the future.

Severity

Error

Message Text

Failed to add the NetLogin VLAN, `%vlan%`, to port `%port%`, reason `%reason%`

Message Parameters

Name	Type
vlan	VLAN
port	SlotPort
reason	sInt

nl.ClientMoveResult

Description

This is a debug message used that can be used to debug client authentication. It will show the framework internal return codes as a result to a VLAN move request.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Summary

Message Text

Client[`%port%`, `%mac%`] `%auth%` move result: `%ret%`

Message Parameters

Name	Type
port	SlotPort
mac	MAC
ret	String
auth	String

nl.VldtMoveReqRtrn

Description

This is a debug message used that can be used to debug client authentication. It will show the result of the move request preprocessing.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Summary

Message Text

Client[`%port%`, `%mac%`] authVlans preprocessing result; `%ret%`

Message Parameters

Name	Type
port	SlotPort
mac	MAC
ret	String

nl.VPifDump

Description

This is a debug message that will dump port VLAN membership information. This message is for engineering use only, and should NOT be turned on. This because it might swamp the log in a normal environment.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Data

Message Text

```
%text%
```

Message Parameters

Name	Type
port	SlotPort
text	Printf

nl.ClientAuthenticated

Description

This message gets logged when ever a user authenticates successfully.

Remedy

This is an informational message.

Severity

Info

Message Text

Network Login %protocol% user %user% logged in MAC %mac% port %port% VLAN(s) \"%vlan%\" policy \"%policy%\", authentication %auth%

Message Parameters

Name	Type
protocol	String
user	String
mac	MAC
port	SlotPort
vlan	VLAN
auth	String
policy	String

nl.ClientUnauthenticated

Description

This message gets logged when ever a user unauthenticates successfully.

Remedy

This is an informational message.

Severity

Info

Message Text

Network Login %protocol% user %user% logged out Mac %mac% port %port% VLAN(s) \"%vlan%\"

Message Parameters

Name	Type
protocol	String
user	String
mac	MAC
port	SlotPort
vlan	VLAN

nl.ClientAuthFailure

Description

This message gets logged when ever a user fails authentication.

Remedy

This is an informational message.

Severity

Info

Message Text

Authentication failed for Network Login `%protocol%` user `%user%` Mac `%mac%` port `%port%`

Message Parameters

Name	Type
protocol	String
user	String
mac	MAC
port	SlotPort

nl.ClientReset

Description

This message is logged when the authentication state of an authenticated client is cleared by either the operator or another module.

Remedy

This is an informational message.

Severity

Info

Message Text

The authentication state of Network Login user `%user%` was cleared by `%module%` due to `%reason%`, Mac `%mac%` port `%port%` VLAN(s) \"`%vlan%`\" Protocol(s) \"`%protocol%`\"

Message Parameters

Name	Type
user	String
mac	MAC
port	SlotPort
vlan	VLAN
protocol	String
module	String
reason	String

nl.ClientAgeOut

Description

This message gets logged when ever a user was aged out by the FDB.

Remedy

This is an informational message.

Severity

Info

Message Text

Network Login user `%user%` cleared by FDB entry age out, Mac `%mac%` port `%port%` VLAN(s) \"`%vlan%`\"

Message Parameters

Name	Type
user	String
mac	MAC
port	SlotPort
vlan	VLAN

nl.ClientFdbDel

Description

This message gets logged when the operator executed a clear fdb command.

Remedy

This is an informational message.

Severity

Info

Message Text

Network Login user `%user%` cleared by FDB deletion, Mac `%mac%` port `%port%` VLAN(s) \"`%vlan%`\"

Message Parameters

Name	Type
user	String
mac	MAC
port	SlotPort
vlan	VLAN

nl.FdbEvent

Description

This message will dump events related to FDB, and
should only be used for debugging on request of
engineering. Events are: 0 FDB_CLIENT_CALLBACK_NETLOGIN_MAC_DETECT
1 FDB_CLIENT_CALLBACK_NETLOGIN_MAC_DEL 2

FDB_CLIENT_CALLBACK_NETLOGIN_MAC_AGEOUT 3 Framework adds FDB Entry 4 Framework delete FDB Entry 5 Framework delete kernel cache 6 Framework Flush 13 Framework flush since STP is controlling the port in that VLAN 14 FDB_CLIENT_CALLBACK_FDB_MAC_SECURITY (FDB insertion failure due to limit learn/lockDown feature).

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Data

Message Text

event `%event%`, vlanInstance `%vlanInstance%`, portInstance `%portInstance%`, tag `%vlanTag%`, mac `%mac%`

Message Parameters

Name	Type
event	sInt
vlanInstance	uInt
portInstance	xInt32
vlanTag	VLAN-tag
mac	srcMAC

nl.ClientMoveFail

Description

The framework failed to authenticate the client, as it cant move to the requested VLAN.

Remedy

This could happen when there are authenticated clients existing on the current port (untagged), and we can only be in one port untagged at a given time. This could also happen when a port already exists tagged/untagged and your client tried to authenticate untagged/tagged. To allow the client to authenticated to the current vlan, change the NetLogin related CLI setting.

Severity

Notice

Message Text

Failed authentication for client `%mac%` on port `%port%`, VLAN `%vlan%`; Cant move to VLAN `%dstvlan%`

Message Parameters

Name	Type
mac	MAC
port	SlotPort
vlan	VLAN
dstvlan	VLAN

nl.InvalidVlanVSA

Description

User was authenticated and requested to move to a new VLAN. This did not happen due to one of the following reasons: 1) VLAN does not exist on the switch 2) VLAN is disabled 3) VLAN has a tag OR 4) VSA has an invalid delimiter.

Remedy

Check radius configuration, or create VLAN on the switch.

Severity

Warning

Message Text

VLAN `%vlan%` specified in Radius VSA does not exist, is disabled, has an internal tag value or an invalid VLAN delimiter is present

Message Parameters

Name	Type
vlan	VLAN

nl.InvalidVlanTagVSA

Description

User was authenticated and requested to move to a new vlan. This did not happen as the destination VLAN does not exists on the switch (identified by the vlan Tag).

Remedy

Check radius configuration, or create vlan with specfied tag on the switch.

Severity

Warning

Message Text

VLAN Tag `%vlan%` specified in Radius VSA does not exist on the switch or cannot be created. Please verify RADIUS configuration

Message Parameters

Name	Type
vlan	String

nl.ClientLinkDown

Description

This message gets logged when the physical link the client was authenticated on went down.

Remedy

This is an informational message.

Severity

Info

Message Text

Network Login user `%user%` cleared due to link down event, Mac `%mac%` port `%port%` VLAN(s) \"`%vlan%`\"

Message Parameters

Name	Type
user	String
mac	MAC
port	SlotPort
vlan	VLAN

nl.ChkPntStart

Description

This message gets logged when check-pointing to backup Needling framework has started.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Summary

Message Text

Initial Check Pointing started for NetLogin Framework

nl.ChkPntFinished

Description

This message gets logged when initial check-pointing to backup NetLogin framework is finished.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Summary

Message Text

Initial Check Pointing finished for NetLogin Framework

nl.ChkPntTxClient

Description

This message gets logged when client information is send to the backup instance.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Data

Message Text

Client `%mac%` on port `%port%` checkpointed, state = `%state%`

Message Parameters

Name	Type
mac	MAC
port	SlotPort
state	uInt32

nl.ChkPntRxClient

Description

This message gets logged when client information is received by the backup instance.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Data

Message Text

Client %mac% on port %port%, checkpointed, state = %state%

Message Parameters

Name	Type
mac	MAC
port	SlotPort
state	uInt

nl.ChkPntTxVPif

Description

This message gets logged when nlVPif information is send to the backup instance.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Data

Message Text

VPif for port %port%, VLAN %vlan% checkpointed; type=%type%, orgUntaggedVlanOnPort=%orgVlan%

Message Parameters

Name	Type
port	SlotPort
vlan	VLAN
type	uInt32
orgVlan	uInt32

nl.ChkPntRxVPif

Description

This message gets logged when nlVPif information is received by the backup instance.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Data

Message Text

VPif for port `%port%`, VLAN `%vlan%` checkpointed; type=`%type%`, orgVLAN=`%orgVlan%`

Message Parameters

Name	Type
port	SlotPort
vlan	VLAN
type	uInt32
orgVlan	uInt32

nl.ChkPntTxReqVPif

Description

This message gets logged when a request for nlVPif information is send to the backup instance.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Data

Message Text

Checkpoint VPif request for port `%port%`, VLAN `%vlan%`

Message Parameters

Name	Type
port	SlotPort
vlan	VLAN

nl.ChkPntRxReqVPif

Description

This message gets logged when a request for nlVPif information is received by the backup instance

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Data

Message Text

Checkpoint VPif request for port `%port%`, VLAN `%vlan%`

Message Parameters

Name	Type
port	SlotPort
vlan	VLAN

nl.ChkPntRxData

Description

This message gets logged when checkpoint data is received for one of the protocols.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Data

Message Text

`%bytes%` bytes checkpoint data received for protocol `%protocol%`

Message Parameters

Name	Type
bytes	uInt32
protocol	String

nl.ChkPntRxInitData

Description

This message gets logged when initial checkpoint data is received for one of the protocols.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Data

Message Text

`%bytes%` bytes checkpoint data received for protocol `%protocol%`

Message Parameters

Name	Type
bytes	uInt32
protocol	String

nl.InitDataAddFail

Description

This message gets logged when initial checkpoint data could not be added to update.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Summary

Message Text

Failed adding checkpoint data to initial request for protocol `%protocol%`

Message Parameters

Name	Type
protocol	String

nl.CreateVlanReq

Description

This message gets logged when the FrameWork requested the creation of a VLAN.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Summary

Message Text

FrameWork requested to create VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

nl.CreateVlanRes

Description

This message gets logged when the FrameWork receives a response to a VLAN creation request.

Remedy

This is a debug message and should only be turned on by request of Extreme Networks.

Severity

Debug-Summary

Message Text

Response to VLAN `%vlan%` create request; `%msg%`

Message Parameters

Name	Type
vlan	VLAN
msg	String

nl.AddUpLinkFailed

Description

When a dynamic VLAN is created, and for some reason NetLogin can not add the up-link ports this error message gets logged.

Remedy

When this happens, check to see if the configured port exists in the system, if it does make verify if any protocol conflicts could exists. If this all is fine get in touch with Extreme Networks Technical support to further trouble shoot this issue.

Severity

Error

Message Text

Failed to add up-link port `%port%` to VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
port	SlotPort

nl.AddedUpLinkPort

Description

When a dynamic VLAN is created, this message gets logged when the up-link ports are successfully added.

Remedy

Information message that uplink port was added, used for debuggin only.

Severity

Debug-Summary

Message Text

Successfully added up-link port `%port%` to VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
port	SlotPort

nl.ClientAdd

Description

This gets called whenever a client gets added via the nlAddClient() API.

Remedy

This is an debug message, and should only be used by request from engineering.

Severity

Debug-Data

Message Text

nlAddClient() request for `%mac%`, port `%portInst%` for protocol `%protocol%`

Message Parameters

Name	Type
portInst	SlotPort
mac	MAC
protocol	uInt32

nl.ClientReAuth

Description

This message gets logged when dot1x reauthentication fails

Remedy

This is an informational message.

Severity

Info

Message Text

Network Login user `%user%` unauthenticated as reauthentication failed, Mac `%mac%` port `%port%` VLAN(s) \"`%vlan%`\"

Message Parameters

Name	Type
user	String
mac	MAC

Name	Type
port	SlotPort
vlan	VLAN

nl.UPMEvent

Description

This message is logged when NetLogin sends an event to UPM.

Remedy

This message is for debug purposes only, and should only be enabled on request of Extreme Networks Technical Support.

Severity

Debug-Verbose

Message Text

UPM event `%event%` send for port `%port%`, VLAN(s) \"`%vlan%`\", mac `%mac%`, IP `%ip%`, clients `%clients%`, user \"`%user%`\", xmlVSA \"`%xmlVSA%`\"

Message Parameters

Name	Type
event	String
port	SlotPort
vlan	VLAN
mac	MAC
ip	IP
clients	uInt
user	String
xmlVSA	String

nl.ClientRefreshFailLogout

Description

This message gets logged when ever a user is logged out because the session failed to be refreshed more times than the allowed maximum.

Remedy

This is an informational message.

Severity

Info

Message Text

Network Login user `%user%` logged out due to session refresh failure , Mac `%mac%` port `%port%` VLAN(s) \"`%vlan%`\"

Message Parameters

Name	Type
user	String
mac	MAC
port	SlotPort
vlan	VLAN

nl.VlanMoveSuccess

Description

This message gets logged when client move is complete

Remedy

This message is for debug purposes only

Severity

Info

Message Text

Network Login user move complete, Mac `%mac%` port `%portInstance%` VLAN `%vlanInstance%`

Message Parameters

Name	Type
mac	MAC
portInstance	xInt32
vlanInstance	uInt

nl.RemoveClientFromQueue

Description

This message gets logged when client move is complete

Remedy

This message is for debug purposes only

Severity

Info

Message Text

remove processed client from queue, Mac `%mac%` port `%portInstance%`

Message Parameters

Name	Type
mac	MAC
portInstance	xInt32

nl.ProcessNextReqOnPif

Description

This message gets logged when client move is complete

Remedy

This message is for debug purposes only

Severity

Info

Message Text

processed next client from queue, Mac `%mac%` port `%portInstance%` vlan `%vlanInstance%`

Message Parameters

Name	Type
mac	MAC
portInstance	xInt32
vlanInstance	uInt

nl.AAATimeout

Description

This message gets logged when AAA cannot reach radius server and is trying for the next configured server

Remedy

This is an debug message, and should only be used by request from engineering.

Severity

Debug-Data

Message Text

Got AAA_TIMEOUT_HAVE_2ND_SERVER from AAA for `%mac%` on `%port%`.

Message Parameters

Name	Type
port	SlotPort
mac	MAC

nl.ClientAuthRespDrop

Description

This message gets logged when client receives an AAA response for a authentication request but the client is already authenticated using a different authType and this auth is dropped because of Service Unavail/Failure/guest Vlan.

Remedy

Check if the port is already authenticated in a Vlan using a different authentication method. This is for debug purposes and no action needs to be taken.

Severity

Debug-Summary

Message Text

Network Login user Mac `%mac%` port `%port%` already Authenticated using `%authString%`. Dropping this authentication response for `%authMethod%` related to `%authError%`.

Message Parameters

Name	Type
mac	MAC
port	SlotPort
authString	String
authMethod	String
authError	String

nl.VSMClntInitFail

Description

Initialization of Netlogin with VSM module has failed. In such a case MLAG functionality with respect to Netlogin will not function properly

Remedy

Stackables or standalone systems may require a reboot to correct the problem. If the issue persists, please escalate to technical support team with below logs 1) debug epm show process netLogin ipml 2) debug epm show process vsm ipml.

Severity

Error

Message Text

VSM client initialization failed

nl.VSMClntInitOK

Description

Netlogin is initiated with VSM library and ready for MLAG checkpointing functionality

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

netlogin initialization with vsm library is success

nl.NodeIsAuthMLAGPeer

Description

This peer acts as authenticator for the MLAG setup.And other peer acts as non-authenticator.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

This node is the authenticator for the MLAG peer

nl.ISCUp

Description

This is a debug message indicating that the state of an ISC has changed to UP.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

State changed to UP for ISC `%iscIdx%`

Message Parameters

Name	Type
iscIdx	uInt16

nl.ISCDown

Description

This is a debug message indicating that the state of an ISC has changed to DOWN.

Remedy

This is a debug message indicating that the state of an ISC has changed to DOWN.

Severity

Debug-Summary

Message Text

ISC `%iscIdx%` is DOWN, re-initialize application-specific data

Message Parameters

Name	Type
iscIdx	uInt16

nl.CreatISC

Description

This is a debug message indicating that an ISC is being created.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Create ISC for index `%iscIdx%`

Message Parameters

Name	Type
iscIdx	uInt16

nl.UpdtISC

Description

This is a debug message indicating that an update of ISC-related parameters is being attempted. The parameters that can be modified are ISC state, ISC port instance and IP address.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Update ISC for ISC `%iscIdx%`

Message Parameters

Name	Type
iscIdx	uInt16

nl.DelISC

Description

This is a debug message indicating that an ISC is being deleted.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Deleting ISC for index `%iscIdx%`

Message Parameters

Name	Type
iscIdx	uInt16

nl.CreatMLAG

Description

This is a debug message which indicates that an MLAG has been created.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Created MLAG for index `%mLagId%`

Message Parameters

Name	Type
mLagId	uInt16

nl.DelMLAG

Description

This is a debug message indicating that the specified MLAG is deleted.

Remedy

No action required - Informational message only.

Severity

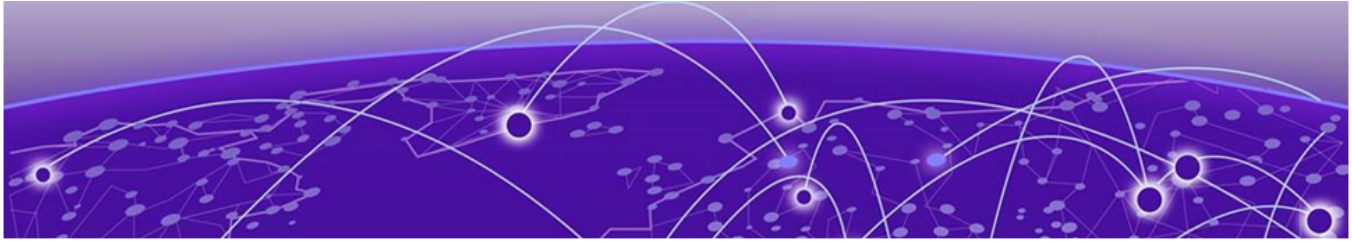
Debug-Summary

Message Text

Deleted Mlag for index `%mLagId%`

Message Parameters

Name	Type
mLagId	uInt16



nl.dot1x Messages

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nl.dot1x.init

Description

802.1x-Based Network Login module was initialized

Remedy

This is an informational message

Severity

Info

Message Text

802.1x-Based Network Login module initialized.

nl.dot1x.backAuthSMTrans

Description

The 802.1X Backend Authentication state machine has undergone a state transition

Remedy

This is an informational message used for debugging purposes. It should be turned on only at the request of Extreme Networks.

Severity

Debug-Summary

Message Text

Backend Authentication State Machine Transition for client `%mac%`, `%oldState%` -> `%newState%`

Message Parameters

Name	Type
oldState	String
newState	String
mac	MAC

nl.dot1x.authPaeSMTrans

Description

The 802.1X Authenticator PAE state machine has undergone a state transition

Remedy

This is an informational message used for debugging purposes. It should be turned on only at the request of Extreme Networks.

Severity

Debug-Summary

Message Text

Authenticator PAE State Machine Transition for client `%mac%`, `%oldState%` -> `%newState%`

Message Parameters

Name	Type
oldState	String
newState	String
mac	MAC

nl.dot1x.AAAResult

Description

802.1X received the result of an authentication from AAA

Remedy

This is an informational message used for debugging purposes. It should be turned on only at the request of Extreme Networks.

Severity

Debug-Summary

Message Text

802.1X received authentication result `%result%` for client `%mac%` from AAA

Message Parameters

Name	Type
result	uInt
mac	MAC

nl.dot1x.eapolPktRcvd

Description

An EAPOL packet was received from the 802.1X supplicant

Remedy

This is an informational message used for debugging purposes. It should be turned on only at the request of Extreme Networks.

Severity

Debug-Summary

Message Text

EAPOL Packet received on port `%port%`, VLAN instance `%vlanInst%`, VLAN ID `%vid%`

Message Parameters

Name	Type
port	SlotPort
vlanInst	uInt
vid	uInt

nl.dot1x.authPaeSMEvent

Description

An event is being dispatched to the Authenticator PAE state machine.

Remedy

This is an informational message used for debugging purposes. It should be turned on only at the request of Extreme Networks.

Severity

Debug-Summary

Message Text

Event `%event%` being dispatched to client `%mac%`'s Authenticator PAE State Machine

Message Parameters

Name	Type
event	String
mac	MAC

nl.dot1x.backAuthSMEvent

Description

An event is being dispatched to the Authenticator PAE state machine.

Remedy

This is an informational message used for debugging purposes. It should be turned on only at the request of Extreme Networks.

Severity

Debug-Summary

Message Text

Event `%event%` being dispatched to client `%mac%`'s Backend Authentication State Machine

Message Parameters

Name	Type
event	String
mac	MAC

nl.dot1x.eapPktSent

Description

An EAP packet was sent to RADIUS via AAA.

Remedy

This is an informational message used for debugging purposes. It should be turned on only at the request of Extreme Networks.

Severity

Debug-Summary

Message Text

An EAP packet was sent to RADIUS for client `%mac%` via AAA

Message Parameters

Name	Type
mac	MAC

nl.dot1x.eapolPktSent

Description

An EAPOL packet was sent to the 802.1X supplicant

Remedy

This is an informational message used for debugging purposes. It should be turned on only at the request of Extreme Networks.s

Severity

Debug-Summary

Message Text

An EAPOL packet was sent to the 802.1X client `%mac%` on port `%port%`

Message Parameters

Name	Type
mac	MAC
port	SlotPort

nl.dot1x.timerExpiry

Description

A 802.1X timer expired

Remedy

This is an informational message used for debugging purposes. It should be turned on only at the request of Extreme Networks.

Severity

Debug-Summary

Message Text

Timer `%timer%` for client `%mac%` expired

Message Parameters

Name	Type
timer	String
mac	MAC

nl.dot1x.AAAAuthFail

Description

802.1X received authentication fail from AAA

Remedy

This is an informational message used for debugging purposes. It should be turned on only at the request of Extreme Networks.

Severity

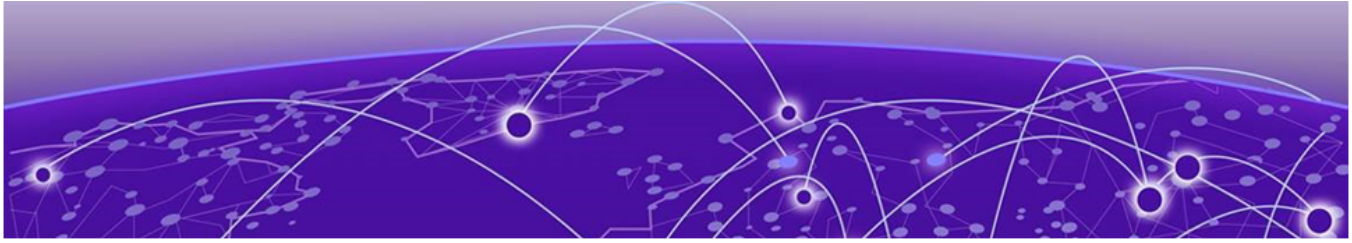
Debug-Summary

Message Text

802.1X received authentication result `%result%` for client `%mac%` from AAA

Message Parameters

Name	Type
result	sInt
mac	MAC



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nl.mac.init

Description

MAC-Based Network Login module was initialized

Remedy

This is an informational message

Severity

Info

Message Text

MAC-Based Network Login module initialized.

nl.mac.NewClient

Description

New client was reported to the MAC authentication protocol by the framework. This message can be used for debuggin MAC authentication issues.

Remedy

This is a debug message, and should only be enabled on request of Extreme Networks Technical Support Center.

Severity

Debug-Summary

Message Text

New client reported, `%port%`, `%mac%`

Message Parameters

Name	Type
port	SlotPort
mac	MAC

nl.mac.DeleteClient

Description

Delete client request was send to the MAC authentication protocol by the framework. This message can be used for debugging MAC authentication issues.

Remedy

This is a debug message, and should only be enabled on request of Extreme Networks Technical Support Center.

Severity

Debug-Summary

Message Text

Delete client request, `%port%`, `%mac%`

Message Parameters

Name	Type
port	SlotPort
mac	MAC

nl.mac.AAAResult

Description

This message logs the result code from a request to AAA manager, and exists for debugging by engineering. A result of one equals Authentication successful, other value means failure.

Remedy

This is a debug message, and should only be enabled on request of Extreme Networks Technical Support Center.

Severity

Debug-Summary

Message Text

Client; `%port%`, `%mac%`, AAA result code `%result%`, authError `%error%`

Message Parameters

Name	Type
port	SlotPort
mac	MAC
result	sInt16
error	sInt16

nl.mac.AAARequest

Description

This message logs a request for authentication to the AAA manager.

Remedy

This is a debug message, and should only be enabled on request of Extreme Networks Technical Support Center.

Severity

Debug-Summary

Message Text

Client; %port%, %mac%, AAA request for user %user%

Message Parameters

Name	Type
port	SlotPort
mac	MAC
user	String

nl.mac.FrameworkResult

Description

This message logs the result code from the framework as a result to an client authentication request. Zero means frame work authenticated client.

Remedy

This is a debug message, and should only be enabled on request of Extreme Networks Technical Support Center.

Severity

Debug-Summary

Message Text

Client; %port%, %mac%, FrameWork result code %result%

Message Parameters

Name	Type
port	SlotPort
mac	MAC
result	String

nl.mac.MacListEmpty

Description

This error is logged when mac authentication is tried, but the configured mac-list is empty.

Remedy

Configure the mac-list for the mentioned virtual router. This can be done using the configure netlogin add mac-list command.

Severity

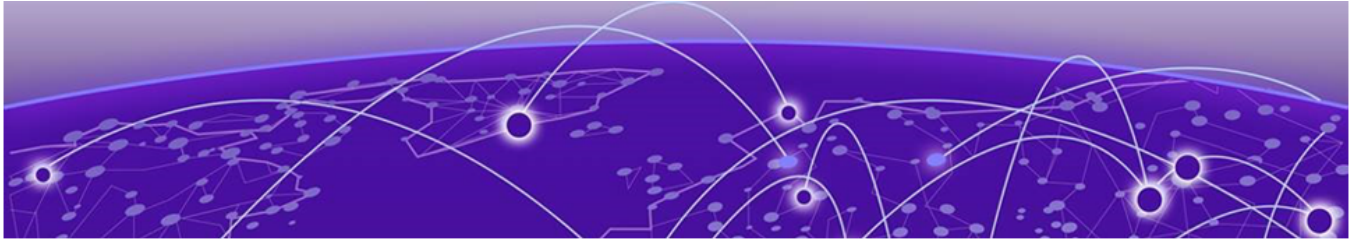
Error

Message Text

Mac authentication was initiated, but mac-list for virtual router `%vr%` is empty

Message Parameters

Name	Type
vr	String



nl.web Messages

nl.web.init on page 3580
nl.web.sessionRefreshFailed on page 3580

nl.web.init

Description

Web-Based Network Login module was initialized

Remedy

This is an informational message

Severity

Info

Message Text

Web-Based Network Login module initialized.

nl.web.sessionRefreshFailed

Description

The session of the web-based Network login client couldn't be refreshed before the session refresh interval expired.

Remedy

No remedy is available.

Severity

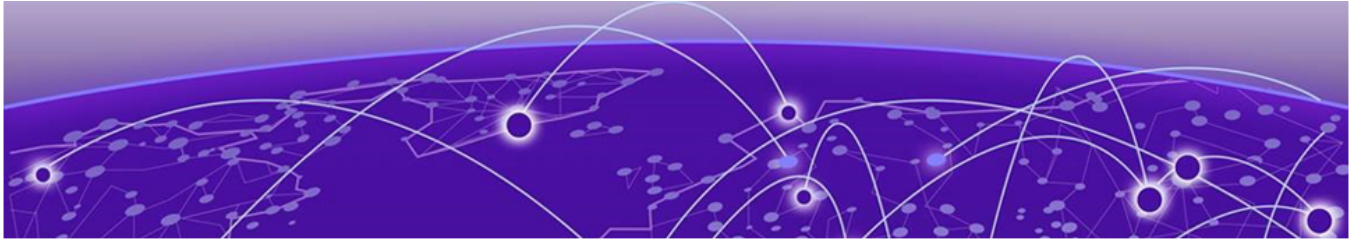
Info

Message Text

The session refresh for client `%mac%` consecutively failed `%numFailed%` times.

Message Parameters

Name	Type
mac	MAC
numFailed	uInt



NM Messages

NM.DebugSummary on page 3582
NM.DebugVerbose on page 3583
NM.DebugData on page 3583
NM.NodeStateFail on page 3584
NM.StrtProc on page 3585
NM.EffctLcnsMismatch on page 3585
NM.FeatLcnsMismatch on page 3586

NM.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NM.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NM.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NM.NodeStateFail

Description

The primary node has detected that the state of another node has changed to being failed. The reason for the failure may be one of the following: "OverHeat" Fan failure, component failure, or an external heat condition has caused the temperature of the module to exceed its operating limit. "Process Failure" The node can not continue to function due the abnormal termination of an an essential software module due to corruption or inconsistency. "Hw Failure" An essential hardware component on the module has failed. "Slot unsecured" The module present in the slot is not safely locked in the chassis. "Dual Master" More than one node is claiming to be the master (primary). This may be caused by a communication failure betweeen the nodes. "Backup lost" The master (primary) node has lost communication with the backup node and so it has forced the backup node into failed state. "No Master" A standby node has lost communication with the master (primary) node and no backup node is available or taken over the role of master node. "License Mismatch" The license installed on the node is not as capable as the license that is installed on the master (primary) node. "Not In Sync" The master (primary) node has failed or otherwise the backup node has lost communication with it before the backup had synchronized with the primary, and consequently the backup can not become primary. "Incompatible XOS" The version of EXOS running on the failed node is not compatible with the version running on the master (primary) node. "Card Mismatch" The module type present in the slot does not match the configured type for that slot. "Device Timeout" The module present in the slot is not responding to informational queries within the expected time period. "Node Not Yet UP" The node has not yet assumed the role of a standby node when the master (primary) is ready to proceed with module initialization.

Remedy

Possible resolutions to the problem depend on the exact reason for the failure; and the approach should be to alleviate the cause as described.

Severity

Critical

Message Text

`%SlotName%` has failed for the reason of \"`%ReasonStr%`\".

Message Parameters

Name	Type
SlotName	String
ReasonStr	String

NM.StrtProc

Description

The EXOS Node Manager application process (nodemgr) has completed initialization and begun normal processing.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

The Node Manager (NM) has started processing.

NM.EffctLcnsMismatch

Description

The effective license of a master capable node does not match the effective license of the primary node. If a failover occurs while in this state, some features may be disabled which may result in service interruption. If the stack is rebooted or if this slot is rebooted before resolving the license mismatch, the slot will not come into service. It will be in a failed state.

Remedy

Use the command, "show license slot all", to see the licenses installed on each slot. All licenses for all master capable nodes must match. Use the command, "enable license <license_key>", to install new licenses on a slot. The "enable license <license_key>" command must be executed on the switch terminal that is being upgraded - i.e. a license cannot be installed from the primary node for a different node.

Severity

Critical

Message Text

Effective license of `%SlotName%` does not match the effective license of the master `%MasterSlotName%`.

Message Parameters

Name	Type
SlotName	String
MasterSlotName	String

NM.FeatLcnsMismatch

Description

One or more feature pack licenses of a master capable node do not match the feature pack licenses of the primary node. If a failover occurs while in this state, some features may be disabled which may result in service interruption. If the stack is rebooted or if this slot is rebooted before resolving the license mismatch, the slot will not come into service. It will be in a failed state.

Remedy

Use the command, "show license slot all", to see the licenses installed on each slot. All licenses for all master capable nodes must match. Use the command, "enable license <license_key>", to install new licenses on a slot. The "enable license <license_key>" command must be executed on the switch terminal that is being upgraded - i.e. a license cannot be installed from the primary node for a different node.

Severity

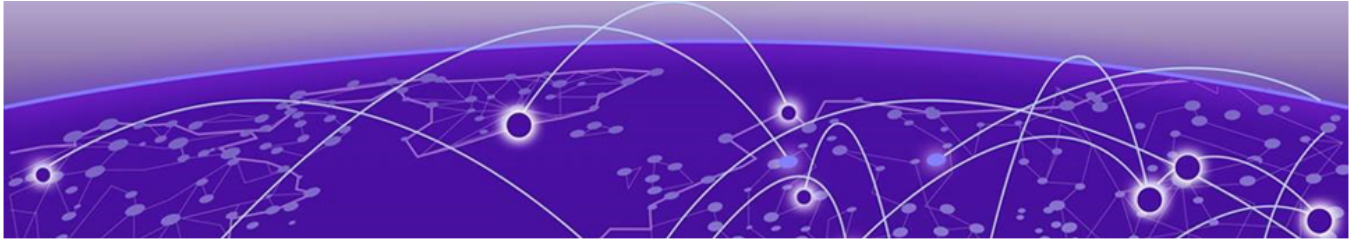
Critical

Message Text

The feature pack licenses of `%SlotName%` do not match the feature pack licenses of the master `%MasterSlotName%`.

Message Parameters

Name	Type
SlotName	String
MasterSlotName	String



NodeAlias Messages

NodeAlias.DebugSummary on page 3587
NodeAlias.DebugVerbose on page 3588
NodeAlias.DebugData on page 3588
NodeAlias.ParmNull on page 3589
NodeAlias.ParmInv on page 3589
NodeAlias.AllocMemFail on page 3590
NodeAlias.AllocInstFail on page 3591
NodeAlias.PktRx on page 3591
NodeAlias.ChkptRcv on page 3592
NodeAlias.ChkptSnd on page 3592
NodeAlias.SndCkptFail on page 3593

NodeAlias.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NodeAlias.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NodeAlias.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

NodeAlias.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs attention.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Arg `%arg%` is NULL

Message Parameters

Name	Type
arg	String

NodeAlias.ParmInv

Description

An internal function was called with an invalid value. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs attention.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: configuration, and the "show log" output.

Severity

Error

Message Text

Argument `%arg%` has an invalid value `%val%`

Message Parameters

Name	Type
arg	String
val	uInt32

NodeAlias.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect operation of the NodeAlias feature.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure of size `%size%`.

Message Parameters

Name	Type
obj	String
size	uInt32

NodeAlias.AllocInstFail

Description

Instance for the displayed object could not be allocated.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Instance allocation failed when trying to allocate an instance for `%obj%` structure.

Message Parameters

Name	Type
obj	String

NodeAlias.PktRx

Description

Nodealias module has received a packet for snooping.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NodeAlias.ChkptRcv

Description

Nodealias module has received a check point message.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NodeAlias.ChkptSnd

Description

Nodealias module has sent a check point message.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

NodeAlias.SndCkptFail

Description

Nodealias module was unable to checkpoint a nodealias entry from the primary to backup node. This will result in fewer number of nodealias entries learned on the backup node.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help. This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: Output of 'show nodealias', 'show nodealias ports all'

Severity

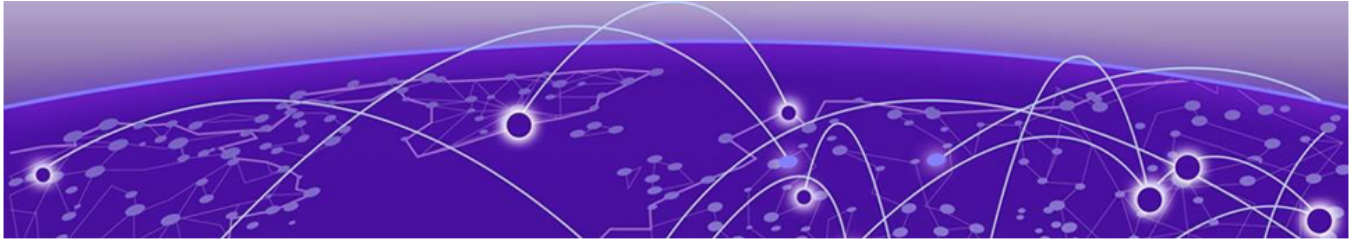
Error

Message Text

Send checkpoint message failed for aliasId `%aliasId%`.

Message Parameters

Name	Type
aliasId	uInt32



NTP Messages

NTP.StrtSrvcFail on page 3594
NTP.SrvcFail on page 3595
NTP.LoadCfgKeyLong on page 3595
NTP.LoadCfgSrvrKeyNotFnd on page 3596
NTP.LoadCfgBcastKeyNotFnd on page 3596
NTP.LoadCfgKeyUnsuprt on page 3597
NTP.EnblFIPSModeOK on page 3598
NTP.EnblFIPSModeFail on page 3598

NTP.StrtSrvcFail

Description

The NTP process tried to start the NTP service process, but failed when calling the system API fork(). The only expected reason for this to happen is when we run out of memory.

Remedy

This is an unexpected internal condition. Please try to restart the NTP process "restart process ntp" to see if the problem disappears. If the problem persists, please contact technical support and supply the output of the "show tech" command.

Severity

Error

Message Text

Failed to start the NTP service, reason being; `%strerror%(%error%)`

Message Parameters

Name	Type
error	uInt
strerror	String

NTP.SrvcFail

Description

When the NTP service stops unexpectedly, the NTP process can take two actions, namely "Terminate" or "Restart". If action is "Restart" the service will be restarted. If this has happened five times in one hour the NTP service will not be restarted, indicated by action "Terminated"

Remedy

If the action taken is "Terminated", try to restart the NTP process. In addition when this happens see if a core file was generated for the NTPD process, "ls /usr/local/tmp". If so please contact technical support with the following information: "show tech" and "upload debug".

Severity

Warning

Message Text

The NTP service stopped unexpectedly, and will be `%action%`.

Message Parameters

Name	Type
action	String

NTP.LoadCfgKeyLong

Description

Load configuration of the key failed, since its key length exceeds maximum limit (20).

Remedy

Configure the key with key length between 5 to 20 characters.

Severity

Error

Message Text

Load configuration of key `%keyIndex%` failed. Key length exceeds maximum limit.

Message Parameters

Name	Type
keyIndex	uInt32

NTP.LoadCfgSrvrKeyNotFnd

Description

Load configuration of the server failed, since its key index is not found.

Remedy

Configure the server with valid key index.

Severity

Error

Message Text

Load configuration of server `%server%` failed. Server's key index `%keyIndex%` is not found.

Message Parameters

Name	Type
server	String
keyIndex	uInt32

NTP.LoadCfgBcastKeyNotFnd

Description

Load configuration of the broadcast server failed, since its key index is not found.

Remedy

Configure the broadcast server with valid key index.

Severity

Error

Message Text

Load configuration of broadcast server in the VLAN `%vlanName%` failed. Broadcast server's key index `%keyIndex%` is not found.

Message Parameters

Name	Type
vlanName	String
keyIndex	uInt32

NTP.LoadCfgKeyUnsuprt

Description

Load configuration of the key failed, since its authentication type is not supported in FIPS mode.

Remedy

Configure the key with FIPS mode supported authentication type (SHA-256).

Severity

Error

Message Text

Load configuration of key `%keyIndex%` failed. MD5 authentication type is not supported in FIPS mode.

Message Parameters

Name	Type
keyIndex	uInt32

NTP.EnblFIPSModeOK

Description

FIPS mode is enabled in NTP process.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Self-Test passed. FIPS mode enabled.

NTP.EnblFIPSModeFail

Description

Unable to properly configure crypto lib with FIPS mode enabled.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

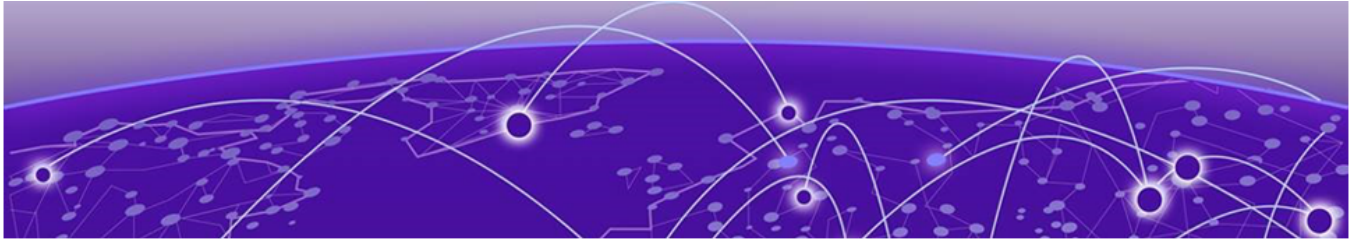
Error

Message Text

Failed to enable FIPS mode: `%errString%`

Message Parameters

Name	Type
errString	String



NTP.Peer Messages

NTP.Peer.DtectServRch on page 3599
NTP.Peer.DtectServUnrch on page 3600
NTP.Peer.SelSysPeer on page 3600

NTP.Peer.DtectServRch

Description

The NTP client sends an NTP request packet per poll interval (Default:64 seconds) to the NTP server(server, peer, or local reference clock) and waits for an NTP response packet. If there is no response for last 8 trials (one trial per pool interval), the NTP server is recognized as unreachable. When the NTP server is in the unreachable status and an NTP client receives an NTP response packet from the NTP server, the NTP server is considered as reachable from the NTP client system.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

The NTP `%type%` `%server%` is reachable from the local system.

Message Parameters

Name	Type
type	String
server	String

NTP.Peer.DtectServUnrch

Description

The NTP server(server, peer, or local reference clock) becomes unreachable from the local system after 8 continuous failures to receive NTP response packets from the server. The NTP client sends an NTP request packet per poll interval (Default:64 seconds) to the NTP server(server, peer, or local reference clock) and waits for an NTP response packet. If there is no response for 8 consecutive trials, the NTP server is recognized as unreachable. When a target NTP server becomes unreachable, it is removed from the system peer or candidate list. In case of a local reference clock, reachability of the local reference clock is dependent on the external system peer election. When the system elects a system peer from the external clock sources, the local reference clock becomes unreachable later because the local system stopsped polling the local reference clock and adjusts to the external clock source.

Remedy

Check network reachability using ping or traceroute from the local system to the target NTP server.

Severity

Info

Message Text

The NTP `%type%` `%server%` is unreachable from the local system.

Message Parameters

Name	Type
type	String
server	String

NTP.Peer.SelSysPeer

Description

NTP server(server, peer, or local reference clock) was selected as the system peer among candidates to adjust the local system clock by the selection algorithm. The selection algorithm scans all associations and casts off the false-tickers, which have demonstrated incorrect time, leaving the true-chimers as a result. In a series of rounds, the algorithm also discards the association statistically furthest from the center until a specified minimum number of survivors remain. One of the survivors is selected as system peer based on the statistical information with a weighted average basis. After

a system peer is chosen, the local system can synchronize the clock itself from the system peer. While the clock is synchronized, a change of reliability, network path load, or system load can trigger another round of system peer election and then choose a new system peer.

Remedy

No action required - Notification message only.

Severity

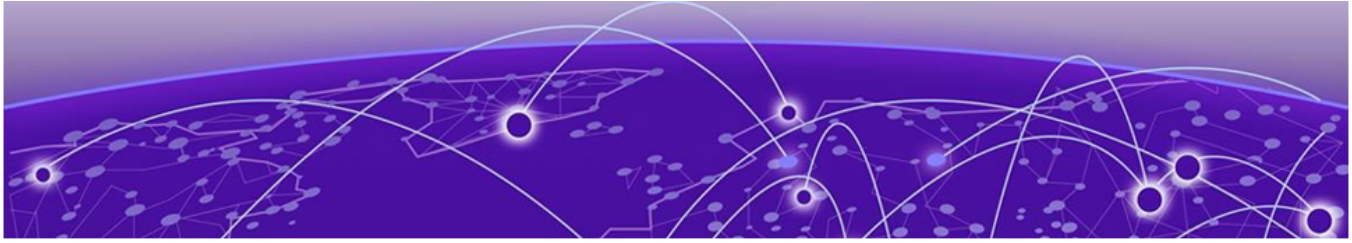
Notice

Message Text

The NTP `%type%` `%server%` is selected as system peer.

Message Parameters

Name	Type
type	String
server	String



NTP.Sys Messages

NTP.Sys.SetKernClockFreq on page 3602
NTP.Sys.InitKernClockFreq on page 3603
NTP.Sys.ActvSysPeerNotExist on page 3603
NTP.Sys.DtectClockSpike on page 3604
NTP.Sys.DtectClockStep on page 3604
NTP.Sys.NtfyClockSync on page 3605

NTP.Sys.SetKernClockFreq

Description

When NTP is started and the frequency file does exist, the NTP frequency is initialized from the file with this log message and enters normal mode immediately. After that, the current frequency offset is written to the file at hourly intervals

Remedy

No action required - Informational message only.

Severity

Info

Message Text

System kernel clock frequency is set at `%val%` ppm

Message Parameters

Name	Type
val	String

NTP.Sys.InitKernClockFreq

Description

NTP logs this message when NTP starts without the frequency file, which contains the latest estimate of clock frequency error. After NTP starts, NTP enters a special mode designed to quickly adapt to the particular system clock oscillator time and frequency error. This adaptation takes approximately 15 minutes, after which the time and frequency are set to nominal values and NTP enters normal mode, where the time and frequency are continuously tracked relative to the server. After one hour the frequency file is created and the current frequency offset is written to it.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

System kernel frequency value is not set.

NTP.Sys.ActvSysPeerNotExist

Description

NTP has no active system peer to receive clock information from the statically configured servers, peers, or local clocks. This event can be triggered by losing the path to a server or a server service stop. After this event, the accuracy of clock might drift.

Remedy

Check reachability from switch to destination using ping. In case of ping failures, use traceroute to see if the network segments are dropping packets. If the network segments are OK, check for a possible service outage in the server.

Severity

Notice

Message Text

No active NTP system peer exists to adjust the system clock.

NTP.Sys.DtectClockSpike

Description

A clock spike can occur due to packet collisions and network congestion. The NTP clock filter algorithm selects the most appropriate sample state and rejects noise spike. The clock offset and round-trip delay samples are computed from the four most recent timestamps based on the assumption that the network path is idle. If an offset sample exceeds the step threshold value, it is ignored and a timer is started. If a later sample is below the step threshold value, the counter is reset and the operation continues normally.

Remedy

Because a spike is caused by network congestion over a path to a system peer, check network utilization and round-trip time over the network segments leading to the server using traceroute or ping, and also check system CPU status, which can cause the possible delay of NTP packet processing via the top command.

Severity

Info

Message Text

Clock spike `%val%` seconds was detected while clock was synchronized with system peer.

Message Parameters

Name	Type
val	String

NTP.Sys.DtectClockStep

Description

Since the system time is outside the step threshold (default: 128 ms), the clock is stepped. The clock step event is dependent on whether the frequency is set from frequency file or initialized without information from frequency file. When the frequency is set from file, the clock step happens immediately, without waiting for the stepout interval(default: 15 minutes). However, when kernel frequency information is not available, the clock step happens after stepout interval (default: 15 minutes). After step adjustment, the clock discipline algorithm of NTP starts over again, requiring another round of at least four messages as before. If the system time is below the step

threshold, NTP gradually slews the clock to the nominal time. Clock step event occurs as the result of restarting the NTP process, manual time changes, or system failures.

Remedy

Check whether the NTP process was restarted before the clock step event. If this event happens continuously without restarting NTP process events, please contact technical support with the following information: "show tech".

Severity

Info

Message Text

Clock step `%val%` seconds was detected and the system clock is updated.

Message Parameters

Name	Type
val	String

NTP.Sys.NtfyClockSync

Description

System time is synchronized with the NTP system peer that feeds best time information. The time information is based on UTC (Coordinated Universal Time). The Difference and frequency difference between local time and UTC time was provided by the system peer, and the system clock has been reduced to below normal tolerances.

Remedy

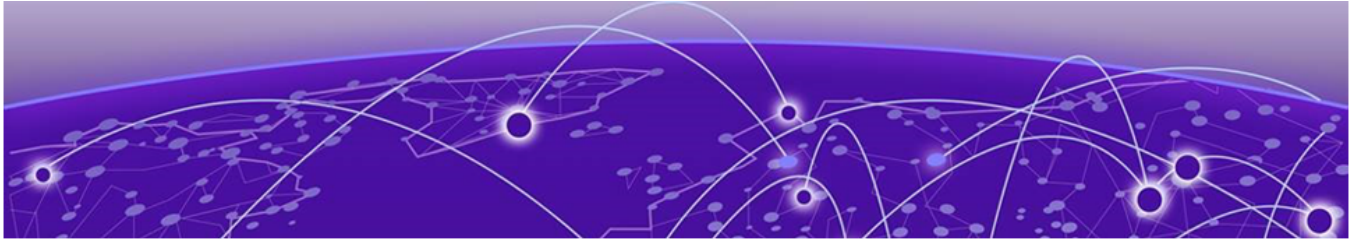
No action required - Notification message only.

Severity

Notice

Message Text

System clock is synchronized with NTP system peer.



ospf Messages

ospf.AreaCfgNotFnd on page 3607
ospf.BldExtLSAFail on page 3607
ospf.ExtLSALmtState on page 3608
ospf.AllocMemFail on page 3608
ospf.SummListAddrDup on page 3609
ospf.RtIfNull on page 3610
ospf.RtUpdtAddDel on page 3610
ospf.AllocInitMemFail on page 3611
ospf.InitSockFail on page 3611
ospf.TmpDownTimerExp on page 3612
ospf.AllocPathEntFail on page 3612
ospf.DelAreaFail on page 3613
ospf.InitIPCFail on page 3613
ospf.RtMgrRegFail on page 3614
ospf.Critical on page 3614
ospf.Error on page 3615
ospf.Warning on page 3615
ospf.Info on page 3616
ospf.DebugSummary on page 3616
ospf.DebugVerbose on page 3617
ospf.DebugData on page 3617
ospf.Enbl on page 3618
ospf.Dsbl on page 3618
ospf.DupRtId on page 3619
ospf.server_Debug on page 3619
ospf.server_DBEvent on page 3620
ospf.AddIfToAreaFmArea on page 3620
ospf.MoveIfToAreaFmArea on page 3621
ospf.RegInterVRExprtFail on page 3622
ospf.RfrshInterVRPlcyFail on page 3622
ospf.TrvrsStrtInterVRRtFail on page 3623
ospf.UnregInterVRExprtFail on page 3623

ospf.AreaCfgNotFnd

Description

Used when access ospf area which does not have area configuration structure. %area%: the area ID.

Remedy

No remedy required.

Severity

Warning

Message Text

Area `%area%` configuration does not found.

Message Parameters

Name	Type
area	IPN

ospf.BldExtLSAFail

Description

Used when ospf fails to build ASE Link. %ase%: the pointer of ospf external hdr structure. %without%: It could be string "without" or "".

Remedy

If ospf is doing graceful restart/lsa origination is triggered within LS Min interval, ospf doesn't generate the LSA immediately. No remedy required. LSA will be originated later. This may also occur when memory allocation fails for LSA origination, If that happens, system reboot may be required.

Severity

Debug-Verbose

Message Text

Building an external LSA `%ase%` `%without%` using Appendix E failed.

Message Parameters

Name	Type
ase	Ptr
without	String

ospf.ExtLSALmtState

Description

Used to report the state of the number of external LSAs relative to the limit of the database. %state%: either "above", or "down" %limit%: the configured limit of type-5 LSAs. %action%: either "entering" or "exiting".

Remedy

None. This is an informational message

Severity

Warning

Message Text

The number of external LSAs goes `%state%` the limit `%limit%`, `%action%` overflow state.

Message Parameters

Name	Type
state	String
limit	uInt
action	String

ospf.AllocMemFail

Description

Used when memory allocation is failed. %size%: the size of the memory allocated. %object%:Object

Remedy

The system might be running with low memory. Reduce the load on the system. Reboot may be required

Severity

Error

Message Text

malloc(`%size%`) failed `%object%`.

Message Parameters

Name	Type
size	uInt32
object	String

ospf.SummListAddrDup

Description

There are multiple summary list matches the address when ospf tries to leak the route to other ospf areas. %addr%: the route's IP address. %mask%: the route's IP mask. %type%: the type of the route.

Remedy

No remedy is required.

Severity

Error

Message Text

Multiple Matches in Summary List for Addr `%addr%`, Mask `%mask%`, Type `%type%`.

Message Parameters

Name	Type
addr	IP
mask	IPmaskval
type	uInt

ospf.RtIfNull

Description

Used to report error when no interface associate the interface route. %route_ip%: the route IP address. %gw%: the route's gateway IP address.

Remedy

None. This is for debugging

Severity

Error

Message Text

ospf Validate Kernel Rt: No intf for intf rt `%route_ip%` gw `%gw%`.

Message Parameters

Name	Type
route_ip	IP
gw	IP

ospf.RtUpdtAddDel

Description

Used when kernel table route updates, ospf needs to process both "add" and "delete" action. %action%: If it is set "add", ospf needs to process "add" besides "delete". Otherwise, ospf needs to proess "delete" besides "add".

Remedy

None. This is for debugging

Severity

Error

Message Text

Update Kernel Rt: A Route to `%action%` also present.

Message Parameters

Name	Type
action	String

ospf.AllocInitMemFail

Description

Used when ospf reports memory mallocation failure in initialization.

Remedy

System may be under low memory condition. Reduce the scaling limits. Restarting process/reboot may be required

Severity

Critical

Message Text

Initializing allocation `%what%` memory failed.

Message Parameters

Name	Type
what	String

ospf.InitSockFail

Description

Used when ospf fails to initialiize input socket.

Remedy

OSPF will fail to start in this condition. Restarting process/Rebooting system may be required

Severity

Critical

Message Text

Initializing socket failed

ospf.TmpDownTimerExp

Description

Used when ospf interface (point-to-point interface with no configured neighbor) temp down timer expires. %circ%: the pointer of ospf interface structure.

Remedy

None. This is for informational purpose

Severity

Debug-Data

Message Text

Temp Down Timer expiration (circuit=`%circ%`).

Message Parameters

Name	Type
circ	Ptr

ospf.AllocPathEntFail

Description

Used when ospf fails to alloc a path_entry structure for SPF from currently active pent block.

Remedy

Unable to allocate memory for path entry during spf mputation. Reduce the scaling number in the system and disable & enable ospf for the recovery

Severity

Error

Message Text

Allocating a path entry (PE) failed.

ospf.DelAreaFail

Description

Used when ospf fails to delete one area. %reason%: failure reason.

Remedy

Either virtual link/address range/circuit is still associated with this area. Remove all before deleting the area.

Severity

Error

Message Text

Deleting an OSPF area failed at `%reason%`.

Message Parameters

Name	Type
reason	String

ospf.InitIPCFail

Description

Used when ospf fails to initial IPML client to DS server.

Remedy

Inter process communication initialization failed. Restart the process/Reboot the system for the recovery

Severity

Warning

Message Text

Initializing Inter-Process Communications failed

ospf.RtMgrRegFail

Description

Used when ospf fails to register to rtmgr process. %src%: the pointer of OSPF DS server structure.

Remedy

None. Ospf will retry the registration procedure.

Severity

Warning

Message Text

Registering with the Route Manager fails on dsService `%src%`.

Message Parameters

Name	Type
src	Ptr

ospf.Critical

Description

Used when ospf shows critical messages.

Remedy

Some critical event occured. Restart process/Reboot system may be required

Severity

Critical

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

ospf.Error

Description

Used when ospf shows error message.

Remedy

None

Severity

Error

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

ospf.Warning

Description

Used when ospf shows warning message.

Remedy

None.

Severity

Warning

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

ospf.Info

Description

Used when ospf shows info messages.

Remedy

None. This is for informational purpose.

Severity

Info

Message Text

%msg%

Message Parameters

Name	Type
msg	Printf

ospf.DebugSummary

Description

Used when ospf shows DebugSummary message.

Remedy

None. This is for debugging purpose

Severity

Debug-Summary

Message Text

%msg%

Message Parameters

Name	Type
msg	Printf

ospf.DebugVerbose

Description

Used when ospf shows DebugVerbose message.

Remedy

None. This is for debugging purpose

Severity

Debug-Verbose

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

ospf.DebugData

Description

Used when ospf shows DebugData message.

Remedy

None. This is for debugging

Severity

Debug-Data

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

ospf.Enbl

Description

Used when ospf is enabled in the system

Remedy

None. This is an informational message

Severity

Info

Message Text

OSPF is enabled.

ospf.Dsbl

Description

ospf is disabled in the system

Remedy

None. This is an informational message

Severity

Info

Message Text

OSPF is disabled.

ospf.DupRtId

Description

Used to find out possible existence of another router with the same router id %rtid%: router identifier

Remedy

Make sure that ospf router id is unique within the autonomous system

Severity

Error

Message Text

Possible Existence of Another Router with OSPF Router ID `%rtid%`.

Message Parameters

Name	Type
rtid	IPN

ospf.server_Debug

Description

A debug event occured in ospf server. Used when ospf interacts with MPLS

Remedy

None. This is for developer debugging

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

ospf.server_DBEvent

Description

A debug event occured in ospf server. Used when ospf updates lsdb to mpls

Remedy

None. This is for debugging purpose

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

ospf.AddIfToAreaFmArea

Description

This event occurs whenever an existing OSPF interface is added to a new area while still belongs to another area. In other words, this event will only occur if the change is made inadvertently or implicitly with CLI command: configure ospf add vlan <vlan-name> area <area-id>. Since with this configuration change the interface is deleted from the old area and added to the new area, the associated adjacencies will be lost in the old area.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Interface `%vlan%` was added to area `%area_new%` and deleted from area `%area_old%` which caused the associated adjacencies to be lost.

Message Parameters

Name	Type
vlan	VLAN
area_new	IPN
area_old	IPN

ospf.MoveIfToAreaFmArea

Description

This event occurs whenever an existing OSPF interface is moved from one area to another area with CLI command: configure ospf vlan <vlan-name> area <area-id>. Since with this configuration change the interface is deleted from the old area and added to the new area, the associated adjacencies will be lost in the old area.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Interface `%vlan%` was moved to area `%area_new%` from area `%area_old%` which caused the associated adjacencies to be lost.

Message Parameters

Name	Type
vlan	VLAN
area_new	IPN
area_old	IPN

ospf.RegInterVRExprtFail

Description

This event occurs when inter-VR export fails to register with Route Manager.

Remedy

This is an internal error. Contact technical support with "show tech" output.

Severity

Error

Message Text

Failed to register inter-VR export with Route Manager. Source VR `%vrname%`, route type `%rttype%`..

Message Parameters

Name	Type
vrname	String
rttype	String

ospf.RfrshInterVRPlcyFail

Description

A policy used for inter-VR export was refreshed. The refreshed policy will not be applied to the export.

Remedy

Disable inter-VR export and enable again with the same policy.

Severity

Notice

Message Text

Policy refresh is not supported for inter-VR export. Source VR `%vrname%`, route type `%rttype%`, policy name `%policy%`.

Message Parameters

Name	Type
vrname	String
rttype	String
policy	String

ospf.TrvrsStrtInterVRRtFail

Description

This event occurs when OSPF is trying is trying to traverse the route table to add or delete routes for inter-VR export and the traversal fails to start.

Remedy

This is an internal error. Contact technical support with "show tech" output.

Severity

Error

Message Text

Route table traversal start failed for inter-VR export. Source VR `%vrname%`, route type `%rttype%`, traversal type `%travtype%`, error code `%retcode%`.

Message Parameters

Name	Type
vrname	String
rttype	String
travtype	String
retcode	sInt

ospf.UnregInterVRExprtFail

Description

This event occurs when inter-VR export fails to unregister with Route Manager.

Remedy

This is an internal error. Contact technical support with "show tech" output.

Severity

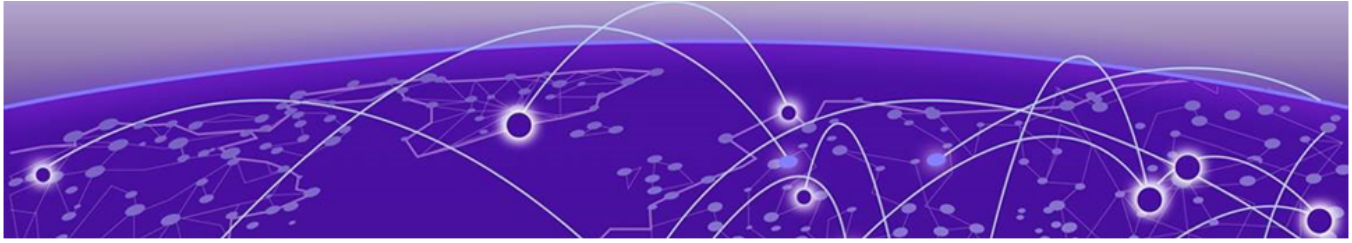
Error

Message Text

Failed to unregister inter-VR export with Route Manager. Source VR `%vrname%`, route type `%rttype%`.

Message Parameters

Name	Type
vrname	String
rttype	String



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ospf.event.EnblVLANFail on page 3630
ospf.event.VLANIPAddrNotFnd on page 3630
ospf.event.VLANNotFnd on page 3631
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ospf.event.ExitRstr on page 3632
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ospf.event.ProcExtRtRedist

Description

Used when ospf adds or deletes redistribution route. %addelete%: It could be "Adding" or "Deleting". %ip%: IP address of the route. %mask%: IP mask of the route.

Remedy

None. This is an informational message

Severity

Debug-Verbose

Message Text

`%addelete%` an external Route `%ip%`/`%mask%` for redistribution.

Message Parameters

Name	Type
ip	IPN
mask	IPmaskvalN
addelete	String

ospf.event.ExtRtGet

Description

Used when ospf get one route from routing table for redistribution. %ip%: the IP address of the route. %mask%: the IP mask of the route.

Remedy

None. This is an informational message

Severity

Debug-Data

Message Text

An external Route `%ip%`/`%mask%` has been gotten from Route Manager.

Message Parameters

Name	Type
ip	IPN
mask	IPmaskvalN

ospf.event.RxPktNonIP

Description

Used when ospf receives non-IP packets. %level%: the level of the packet. %type%: the type of the packet. %len%: the length of the packet.

Remedy

Something could be wrong in the system. Either process restart/system reboot may be required if any functional problem observed in ospf

Severity

Debug-Data

Message Text

Receiving non-IP packet with CMSG level=`%level%`, type=`%type%`, len=`%len%`.

Message Parameters

Name	Type
level	uInt
type	uInt
len	uInt

ospf.event.ProcSockFail

Description

Used when ospf fails to intialize or manipulate input socket.
%reason%: failure action. %err%, %err_s%: Error function reason err_s/err
---------- setsockopt() setting socket option IP_ADD_MEMBERSHIP EBADF setting socket option IP_DROP_MEMBERSHIP ENOTSOCK setting socket option SO_DONTROUTE ENOPROTOOPT setting socket option SO_BINDTODEVICE EFAULT setting socket option SO_DONTROUTE setting socket option IP_MULTICAST_LOOP setting socket option IP_PKTINFO sendto() multicasting sending to EBADF unitcasting sneding to ENOTSOCK EFAULT EMSGSIZE EAGAIN EWOULDBLOCK ENOBUFS EINTR ENOMEM EINVAL EPIPE socket() Initializing socket EPROTONOSUPPORT ENFILE EACCES ENOBUFS ENOMEM EINVAL

Remedy

If ospf has any operational issue, process restart/system reboot may be required

Severity

Debug-Summary

Message Text

Processing socket fails since `%reason%` with error `%err%`(`%err_s%`).

Message Parameters

Name	Type
reason	String
err	uInt
err_s	String

ospf.event.IPVerInv

Description

Used when ospf received bad IP version packet. %ver%: the IP version of the received packet.

Remedy

None. Something could be wrong in the system. If any operational issues observed, system reboot may be required.

Severity

Warning

Message Text

IP Version `%ver%` is invalid.

Message Parameters

Name	Type
ver	uInt

ospf.event.PktLenInv

Description

Used when ospf receives too short packet. %len1%: the length of the IP header. %len2%: the length of the buffer.

Remedy

None. This is an informational message

Severity

Warning

Message Text

Packet is too short (ipHdr=`%len1%`, buf=`%len2%`)

Message Parameters

Name	Type
len1	uInt
len2	uInt

ospf.event.ProtoInv

Description

Used when ospf receives packet whose protocol is not 89. %proto%: the protocol number of the received packet.

Remedy

If any opeational issues are observed in ospf, system reboot may be required.

Severity

Warning

Message Text

Protocol `%proto%` is invalid

Message Parameters

Name	Type
proto	uInt

ospf.event.EnblVLANFail

Description

Used when the vlan fails to be enabled on ospf. %err%: the error number.

Remedy

If memory allocation fails OR any address conflict exists this error message appears. If address conflict find, correct it. Otherwise process restart/system reboot may be required.

Severity

Warning

Message Text

Enabling VLAN `%vlan%` fails with err `%err%`.

Message Parameters

Name	Type
vlan	VLAN
err	uInt

ospf.event.VLANIPAddrNotFnd

Description

Used when ospf tries to remove one vlan's IP address which does not exist. %vlan%: the vlan name. %ip%: the IP address which causes error. %mask%: the IP mask which causes error.

Remedy

None. This is to debug error condition

Severity

Warning

Message Text

Vlan `%vlan%` has NOT IP `%ip%`/`%mask%`.

Message Parameters

Name	Type
vlan	VLAN
ip	IP
mask	IPmaskval

ospf.event.VLANNotFnd

Description

Used when the vlan is NOT in ospf interface list. %vlan%: the vlan name.

Remedy

None. This vlan is already deleted/This vlan is no longer l3 vlan. This is an informational message

Severity

Debug-Verbose

Message Text

Vlan `%vlan%` is not found in the OSPF interface list.

Message Parameters

Name	Type
vlan	VLAN

ospf.event.EntRstr

Description

Used when ospf enters into graceful restart mode %mode%: Planned/Unplanned graceful restart mode

Remedy

None. This is an informational message

Severity

Info

Message Text

OSPF enters `%mode%` restarting mode.

Message Parameters

Name	Type
mode	String

ospf.event.ExitRstr

Description

Used when ospf exits graceful restart mode %mode% : Planned/Unplanned mode %reason%: Reason to exit graceful restart

Remedy

None. This is an informational message

Severity

Info

Message Text

OSPF exits `%mode%` restarting mode due to `%reason%`.

Message Parameters

Name	Type
mode	String
reason	String

ospf.event.EntRstrHelp

Description

Used when ospf interface enters into restart helper mode %interface%: vlan name

Remedy

None. This an informational message

Severity

Info

Message Text

OSPF interface `%interface%` enters restart helper mode.

Message Parameters

Name	Type
interface	String

ospf.event.ExitRstrHelp

Description

Used when ospf interface exits restart helper mode %interface% : vlan name %reason%: reason to exit graceful restart

Remedy

None. This is an informational message

Severity

Info

Message Text

OSPF interface `%interface%` exits restart helper mode due to `%reason%`.

Message Parameters

Name	Type
interface	String
reason	String

ospf.event.NotEntRstr

Description

Used when ospf fails to enter into restarting mode %mode% : planned/unplanned %reason%: reason for the failure

Remedy

None. Ospf normal restart will happen.

Severity

Info

Message Text

OSPF failes to enter `%mode%` restarting mode due to `%reason%`.

Message Parameters

Name	Type
mode	String
reason	String

ospf.event.NotEntRstrHelp

Description

Used when ospf interface fails to enter into restarting helper mode %interface%: vlan name %reason% : reason for the failure

Remedy

If reason indicates that helper is not configured, then configure the helper on the vlan. Otherwise no remedy required.

Severity

Info

Message Text

OSPF interface `%interface%` fails to enter restarting helper mode due to `%reason%`.

Message Parameters

Name	Type
interface	String
reason	String

ospf.event.RemGraceInt

Description

Used when ospf queries remaining grace time out from route manager. %time%: time in seconds

Remedy

None. This is an informational message

Severity

Info

Message Text

The remaining time for grace restart is `%time%`.

Message Parameters

Name	Type
time	uInt

ospf.event.ExitRstrPurgeType5ASE

Description

Used when ospf sends LSA Purges of External Route (Type 5) after Graceful Restart is complete. %lsaid%: the LSA ID of the LSA.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

OSPF GR Purge sent LSA [`%lsaid%`].

Message Parameters

Name	Type
lsaid	IPN

ospf.event.ExitRstrPurgeType7ASE

Description

Used when ospf sends LSA Purges of External Route (Type 7) after Graceful Restart is complete. %area%: the IP address of Area. %lsaid%: the LSA ID of the LSA.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

OSPF GR Purge sent `%area%` LSA [`%lsaid%`].

Message Parameters

Name	Type
area	IPN
lsaid	IPN

ospf.event.ExitRstrPurgeType34Summ

Description

Used when ospf sends LSA Purges of Summary LSAs (Type 3 and Type 4) after Graceful Restart is complete. %type%: Lsa Type ` (Type 3 or 4). %area%: the IP address of Area. %lsaid%: the LSA ID of the LSA.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

OSPF GR Purge sent `%type%` `%area%` LSA [`%lsaid%`].

Message Parameters

Name	Type
type	String
area	IPN
lsaid	IPN

ospf.event.ExitRstrRouteUpdateReq

Description

Used when ospf sends requests to rtmgr to send external routes configured for leak after Graceful Restart is complete. %proto%: The protocol for which the request is sent to rtmgr.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

OSPF GR Proto Routes Update sent to rtmgr `%proto%`.

Message Parameters

Name	Type
proto	uInt

ospf.event.ExitRstrRouteUpdateComp

Description

Used when ospf receives all the extgernal routes from rtMgr.

Remedy

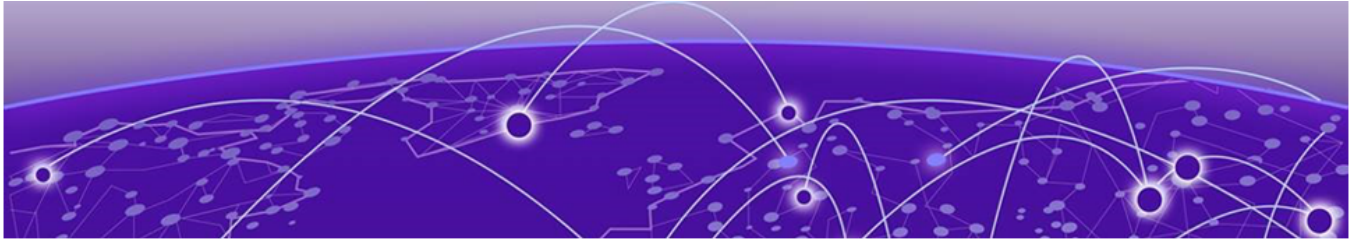
This is for debugging

Severity

Debug-Summary

Message Text

OSPF GR Proto Routes Update From rtmgr Complete.



ospf.hello Messages

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ospf.hello.TxPkt

Description

Used when ospf vlan sends ospf hello message. %vlan%: the name of vlan which sends hello message %dst%: the destination IP address which shall be in IP header. %len%: the packet length. %intf%: the ospf interface structure pointer %pktnum%: the number of packets which have been transmitted.

Remedy

None. This is an informational message

Severity

Debug-Summary

Message Text

`%vlan%` is transmitting a Hello pkt to `%dst%` (length `%len%`, interface `%intf%`, pkt num `%pktnum%`).

Message Parameters

Name	Type
vlan	VLAN
dst	IPN
len	uInt
intf	Ptr
pktnum	uInt

ospf.hello.PktRx

Description

Used when ospf correctly receives the hello message. %vlan%: the ospf vlan which receives the correct hello message. %src%: the source IP address of the hello message.

Remedy

None. This is an informational message

Severity

Info

Message Text

`%vlan%` received a Hello pkt from `%src%`

Message Parameters

Name	Type
vlan	VLAN
src	IPN

ospf.hello.PktInv

Description

Used when ospf does not correctly receive the hello message. %vlan%: the ospf vlan which received the hello message. %src%: the source IP address of the received hello packet. %reason": the failure reason. The possible arguments are "checksum", "authentication(simple password)", "authentication(no MD5 keyID)", "authentication(MD5)", "incorrect ospf version", "incorrect sender", "No Virtual Link for sender", "DOWN Virtual Link", "source area is not the same area of the interface",

"mismatch authentication type", "self-originated packet", "Hello interval mismatch", "Router dead interval mismatch", "Area type mismatch", "Netmask mismatch", "Not a configured neighbor", "Different/Extra neighbor on Point-to-Point link", "Interface is temp down state", "Different neighbor on Virtual link".

Remedy

If any configuration issue is observed, that needs to be corrected.

Severity

Warning

Message Text

`%vlan%` receives Hello pkt from `%src%` failed `%reason%`.

Message Parameters

Name	Type
vlan	VLAN
src	IPN
reason	String

ospf.hello.VLANDebugSummary

Description

A debug condition has occurred on the given VLAN.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Vlan (`%bridgeInst%`) - `%msg%`

Message Parameters

Name	Type
bridgeInst	VLAN
msg	Printf

ospf.hello.VLANWarning

Description

A warning condition has occurred on the given VLAN.

Remedy

None. This is for debugging

Severity

Warning

Message Text

Vlan (`%bridgeInst%`) - `%msg%`

Message Parameters

Name	Type
bridgeInst	VLAN
msg	Printf

ospf.hello.VLANRxMbufDump

Description

Internal mbuf (memory buffer) dump during input processing. Note: a VLAN can be used for match criteria.

Remedy

None. This is for debugging

Severity

Debug-Data

Message Text

to vlan `%vlan%`, len `%len%`, msg: `%mbufPtr%`

Message Parameters

Name	Type
vlan	String
mbufPtr	Buf-ptr
len	Buf-len

ospf.hello.VLANTxDataDump

Description

Packet dump during output processing.

Remedy

None. This is for debugging

Severity

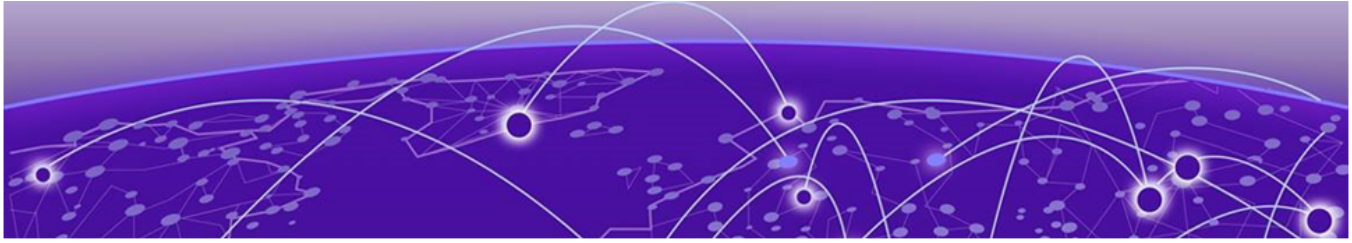
Debug-Data

Message Text

From `%vlan%`: len `%len%`, msg: `%bufPtr%`

Message Parameters

Name	Type
vlan	String
bufPtr	Buf-ptr
len	Buf-len



ospf.lsa Messages

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ospf.lsa.AddExtRt on page 3648
ospf.lsa.AddToDB on page 3649
ospf.lsa.AddExtToDB on page 3650
ospf.lsa.Type5ExtDBCntAcc on page 3650
ospf.lsa.RfrshType2IfNull on page 3651
ospf.lsa.RfrshType34SummHdrNull on page 3652
ospf.lsa.RfrshType5ExtHdrNull on page 3652
ospf.lsa.DelFmDB on page 3653
ospf.lsa.Type5ExtDBCntRmn on page 3654
ospf.lsa.Updt on page 3654
ospf.lsa.ProcUpdt on page 3655
ospf.lsa.UpdtExtVal on page 3656
ospf.lsa.AgeOut on page 3656
ospf.lsa.ProcStrt on page 3657
ospf.lsa.DropLenInv on page 3658
ospf.lsa.DropNotOpqCpbl on page 3659
ospf.lsa.DropNbrNotOpqCpbl on page 3659
ospf.lsa.Fnd on page 3660
ospf.lsa.RtrNotSame on page 3661
ospf.lsa.DropDupType9IfcDiff on page 3662
ospf.lsa.DelPendLSReq on page 3663
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ospf.lsa.ProcFunc on page 3664
ospf.lsa.DelLSRtxListEnt on page 3665
ospf.lsa.DropOld on page 3666
ospf.lsa.TxLSAckNbrNotUpdt on page 3666
ospf.lsa.CmpAge on page 3667
ospf.lsa.BldType1 on page 3668
ospf.lsa.BldType2Strt on page 3668
ospf.lsa.BldType2Fnd on page 3669

ospf.lsa.DelType2NotDR on page 3670
ospf.lsa.BldType2NotDone on page 3670
ospf.lsa.BldType2Pstpn on page 3671
ospf.lsa.PurgeType2MaxSeqNum on page 3671
ospf.lsa.BldType2Func on page 3672
ospf.lsa.BldType2Done on page 3672
ospf.lsa.BldType34 on page 3673
ospf.lsa.BldDfltType3 on page 3674
ospf.lsa.BldDfltType7 on page 3674
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ospf.lsa.TxPkt

Description

Used when ospf sends LS Update packet or LS Ack packet. %vlan%: the vlan name which sends the packet. %pkttype%: the packet type. It is LS Update or LS Ack packet. %dst%: the destination IP address of the packet. %len%: the length of the packet. %intf%: the pointer of ospf vlan structure which sends the packet. %pktnum%: the number of packets which have been transmitted.

Remedy

None. This is an informational message

Severity

Debug-Summary

Message Text

`%vlan%` sends `%pkttype%` to `%dst%` (length `%len%`, interface `%intf%`, pkt num `%pktnum%`.

Message Parameters

Name	Type
vlan	VLAN
pkttype	String
dst	IPN
len	uInt
intf	Ptr
pktnum	uInt

ospf.lsa.PktRx

Description

Used when ospf correctly receives LS Update or LS Ack packet. %vlan%: the ospf vlan which receives the packet. %pkttype%: the packet type, it is LS Update or LS Ack packet. %src%: the source IP address of the packet.

Remedy

None. This is an informational message

Severity

Info

Message Text

`%vlan%` receives type `%pkttype%` pkt from `%src%`.

Message Parameters

Name	Type
vlan	VLAN
pkttype	uInt
src	IPN

ospf.lsa.PktInv

Description

Used when ospf does not correctly receive LS Update or LS Ack packet. %vlan%: the ospf vlan which received the message. %pkttype%: the packet type. It is LS Update or LS Ack packet. %src%: the source IP address of the received packet. %reason": the failure reason.

Remedy

Configuration mismatch may cause the problem. Please check the configuration at both end of ospf adjacency

Severity

Warning

Message Text

OSPF Lsa receives type `%pkttype%` pkt from `%src%` failed `%reason%`.

Message Parameters

Name	Type
vlan	VLAN
pkttype	uInt
src	IPN
reason	String

ospf.lsa.ExclExtFlood

Description

Used when ospf filters external routes to one area. %lsid%: the IP address of the external route. %mask%: the IP mask of the external route. %area%: the area ID the external route shall be filtered to.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Excluding external LSA `%lsid%` mask `%mask%` flooding to area `%area%`.

Message Parameters

Name	Type
lsid	IPN
mask	IPN
area	IPN

ospf.lsa.AddExtRt

Description

Used when ospf processes external route. %inase%: the pointer of external route structure. %ip%: the IP address of the external route. %mask%: the IP mask of the external route. %nhs%: the IP address of the next hop of the external route. %nh%: It is set to 1 when using next hop to calculate forwarding address of LSA.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Adding an external route (inase=%inase%[%ip%/%mask%, nh=%nhs%, useNextHop=%nh%]).

Message Parameters

Name	Type
inase	Ptr
ip	IPN
mask	IPmaskvalN
nhs	IPN
nh	uInt

ospf.lsa.AddToDB

Description

Used when ospf add one LSA to the database. %id%: Link State ID of the LSA. %rtid%: the advertise router ID of the LSA. %area%: the area ID the LSA should added to. %type%: LSA type.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Adding LSA to database with id %id% rtid %rtid% area %area% type %type%.

Message Parameters

Name	Type
id	IPN
rtid	IPN
area	IPN
type	uInt

ospf.lsa.AddExtToDB

Description

Used when ospf add Type-5 or Type-7 external route to database. %mask%: the IP mask of the route. %cost%: the cost of the route. %type%: the type of the cost, it is Type-1 or Type-2. %fwd%: the forwarding address. %tag%: tag.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Adding external LSA with mask `%mask%` cost `%cost%` type `%type%` fwd `%fwd%` tag `%tag%` to database.

Message Parameters

Name	Type
mask	IPmaskvalN
cost	uInt
type	uInt
fwd	IPN
tag	uInt

ospf.lsa.Type5ExtDBCntAcc

Description

Used when ospf reports the number of type-5 external LSA while adding LSAs to the database. %count%: the number of type-5 LSA in the system.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Type 5 external LSA database count accumulated to `%count%`.

Message Parameters

Name	Type
count	uInt

ospf.lsa.RfrshType2IfNull

Description

Used when ospf reports no interface associated with the network-LSA while trying to regenerate the self-originated LSA. %id%: the Link State ID of the network-LSA. %rtid%: the advertise router ID of the network-LSA. %age%: the age of the network-LSA. %seq%: the sequence number of the network-LSA.

Remedy

None. Interface is already deleted. This is for developer debugging.

Severity

Critical

Message Text

Refreshing network-LSA id `%id%` advRtr `%rtid%` age `%age%` seq `%seq%` failed on NULL interface.

Message Parameters

Name	Type
id	IPN
rtid	IPN
age	uInt
seq	uInt

ospf.lsa.RfrshType34SummHdrNull

Description

Used when ospf try to regenerate self-originated summary-net or summary-asb LSA,but could not find summary header structure to the LSA. %type%: the summary LSA type, it could be 3 or 4. %id%: the Link Data ID of the LSA. %rtid%: the advertise router ID of the LSA. %area%: the associated area ID. %seq%: the sequence number of the LSA.

Remedy

None. This is for developer debugging.

Severity

Warning

Message Text

Refreshing Type-`%type%` LSA id `%id%` rtid `%rtid%` area `%area%` lsa_seq `%seq%` failed on NULL summary header structure.

Message Parameters

Name	Type
type	IPmaskval
id	IPN
rtid	IPN
area	IPN
seq	uInt32

ospf.lsa.RfrshType5ExtHdrNull

Description

Used when ospf tries to regenerate self-originated type-5 LSA, but could not find the external route header structure. %id%: the Link State ID of the type-5 LSA. %rtid%: the advertise router ID of the type-5 LSA. %age%: the age of the LSA. %seq%: the sequence number of the LSA.

Remedy

None. This is for developer debugging

Severity

Warning

Message Text

Refreshing external Lsa id `%id%` advRtr `%rtid%` age `%age%` seq `%seq%` failed on NULL external header structure.

Message Parameters

Name	Type
id	IPN
rtid	IPN
age	uInt
seq	uInt

ospf.lsa.DelFmDB

Description

Used when ospf deletes one LSA from the database. %id%: the Link State of the LSA. %rtid%: the advertise router ID of the LSA. %area%: the area ID of the LSA. %type%: the LSA type.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Deleting one LSA with id `%id%` rtid `%rtid%` area `%area%` type `%type%`.

Message Parameters

Name	Type
id	IPN
rtid	IPN

Name	Type
area	IPN
type	uInt

ospf.lsa.Type5ExtDBCntRmn

Description

Used when ospf reports the left number of type-5 LSA while deleting LSAs from the database. %count%: the number of type-5 LSA in the system.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Deleting one type-5 LSA with remaining `%count%` type-5 LSAs.

Message Parameters

Name	Type
count	uInt

ospf.lsa.Updt

Description

Used when ospf update a LSA in the database. %lsai%: the pointer of LSAI structure in the database. %lsa%: the pointer of new LSA.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

ospf Update Lsai (lsai=`%lsai%`, lsa=`%lsa%`).

Message Parameters

Name	Type
lsai	Ptr
lsa	Ptr

ospf.lsa.ProcUpdt

Description

Used when ospf updating a LSA in database by the new LSA info. %id%: the Link State ID of the new LSA. %rtid%: the advertise router ID of the new LSA. %area%: the area ID of the new LSA. %type%: the new LSA type.

Remedy

None. This is an informational message

Severity

Debug-Summary

Message Text

Modifing LSA with id `%id%` rtid `%rtid%` area `%area%` type `%type%`.

Message Parameters

Name	Type
id	IPN
rtid	IPN
area	IPN
type	uInt

ospf.lsa.UpdtExtVal

Description

Used when ospf updates type-5 or type-7 LSA. %style%: It could be "old" and "new". %mask%: the IP mask of the route. %cost%: the cost of the route. %type%: the cost type, it could be type-1 or type-2 cost. %fwd%: the forwarding address. %tag%: the tag.

Remedy

None. This is for debugging

Severity

Debug-Data

Message Text

Modifing `%style%` LSA mask `%mask%` cost `%cost%` type `%type%` fwd `%fwd%` tag `%tag%`.

Message Parameters

Name	Type
style	String
mask	IPN
cost	uInt
type	uInt
fwd	IPN
tag	uInt

ospf.lsa.AgeOut

Description

Used when ospf updates LSA, updating the holding timer of LSA. %lsai%: the pointer of LSA structure. %lsid%: the Link State ID of the LSA. %rtid%: the advertise router ID of the LSA, %lsa_age%: the age of the LSA. %seq%: the sequence number of the LSA.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Deleting the hold time of Lsai `%lsai%` lsid `%lsid%` rtid `%rtid%` lsa_age `%lsa_age%` seq `%seq%`.

Message Parameters

Name	Type
lsai	Ptr
lsid	IPN
rtid	IPN
lsa_age	uInt
seq	uInt

ospf.lsa.ProcStrt

Description

Used when ospf processes received LSA. %id%: the Link State ID of the LSA. %rtid%: the advertise router ID of the LSA. %area%: the area ID of the LSA. %type%: the LSA type. %seq%: the sequence number of the LSA. %age%: the age of the LSA. %len%: the length of the LSA.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Processing one received LSA id `%id%` rtid `%rtid%` area `%area%` type `%type%` seq `%seq%` age `%age%` len `%len%`.

Message Parameters

Name	Type
id	IPN
rtid	IPN
area	IPN
type	uInt
seq	uInt
age	uInt
len	uInt

ospf.lsa.DropLenInv

Description

Used when ospf received bad LSA. %lsid%: the Link State ID of the bad LSA. %type%: the type of the bad LSA. %nbr%: the neighbor IP address which sends the bad LSA.

Remedy

None. This is for debugging.

Severity

Warning

Message Text

Processing received LSA with lsid `%lsid%` type `%type%` from nbr `%nbr%` failed on bad len `%len%`.

Message Parameters

Name	Type
lsid	IPN
type	uInt
nbr	IPN
len	uInt

ospf.lsa.DropNotOpqCpbl

Description

Used when ospf processes the received opaque LSA but it does not have opaque ability. %area%: the area ID of the opaque LSA. %type%: the type of the LSA, it could be Type-9(local opaque), type-10(area opaque), type-11(global opaque). %lsid%: the link State ID of the LSA. %rtid%: the advertise router ID of the LSA. %nbr%: neighbor info.

Remedy

Please have the same opaque configuration at both end of ospf adjacency

Severity

Debug-Data

Message Text

Dropping the opaque LSA with area `%area%` type `%type%` lsid `%lsid%` routerid `%rtid%` `%nbr%` since we do not have opaque capability.

Message Parameters

Name	Type
area	IPN
type	uInt
lsid	IPN
rtid	IPN
nbr	String

ospf.lsa.DropNbrNotOpqCpbl

Description

Used when ospf processes the received opaque LSA but the neighbor does not have opaque ability. %area%: the area ID of the opaque LSA. %type%: the type of the LSA, it could be Type-9(local opaque), type-10(area opaque), type-11(global opaque). %lsid%: the link State ID of the LSA. %rtid%: the advertise router ID of the LSA. %nbr%: neighbor info.

Remedy

None. This is for debugging

Severity

Debug-Data

Message Text

Dropping the opaque LSA with area `%area%` type `%type%` lsid `%lsid%` routerid `%rtid%` `%nbr%` since neighbor does not have opaque capability.

Message Parameters

Name	Type
area	IPN
type	uInt
lsid	IPN
rtid	IPN
nbr	String

ospf.lsa.Fnd

Description

When ospf processes the received LSA, it found one version of the LSA in the database. %lsai%: the pointer of the LSA in the database. %age%: the age of the LSA in the database. %lsid%: the Link State ID of the LSA in the database. %rtid%: the advertise router ID of the LSA in the database. %seq%: the sequence number of the LSA in the database.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Processing LSA lsai `%lsai%` age `%age%` lsid `%lsid%` rtrId `%rtid%` seq `%seq%` which is found in database.

Message Parameters

Name	Type
lsai	Ptr
age	uInt
lsid	IPN
rtid	IPN
seq	xInt32

ospf.lsa.RtrNotSame

Description

When ospf processes the received LSA, it finds one version of it in the database. %type%: the LSA type. %id1%: the Link State ID of the received LSA. %id2%: the Link State ID of the LSA in database. %rtid1%: the advertise router ID of the received LSA. %rtid2%: the advertise router ID of the LSA in database. %age1%: the age of the received LSA. %age2%: the age of the LSA in database. %seq1%: the sequence number of the received LSA. %seq2%: the sequence number of the LSA in database.

Remedy

None. This is for debugging

Severity

Warning

Message Text

Processing one LSA by comparing it with founded database version Lsa/Lsai (type `%type%`) id `%id1%`/`%id2%` rtid `%rtid1%`/`%rtid2%` age `%age1%`/`%age2%` seq `%seq1%`/`%seq2%`.

Message Parameters

Name	Type
type	uInt
id1	IP
id2	IP
rtid1	IP
rtid2	IP
age1	uInt

Name	Type
age2	uInt
seq1	xInt32
seq2	xInt32

ospf.lsa.DropDupType9IfcDiff

Description

When ospf receives received local opaque LSA, it finds one version of the LSA in database which is from different interface. %circ1%: the interface IP address which received the local opaque LSA. %circ2%: the interface IP address which received the LSA is in database. %id1%: the Link State ID of the received LSA. %id2%: the Link State ID of the LSA in database. %rtid1%: the advertise router ID of the received LSA. %rtid2%: the advertise router ID of the LSA in database. %age1%: the age of the received LSA. %age2%: the age of the LSA in database. %seq1%: the sequence number of the received LSA. %seq2%: the sequence number of the LSA in database.

Remedy

None. This is for debugging

Severity

Warning

Message Text

Processing one duplicate link-local opaque LSA from a different interface. LSA circ `%circ1%/%circ2%` id `%id1%/%id2%` rtid `%rtid1%/%rtid2%` age `%age1%/%age2%` seq `%seq1%/%seq2%`.

Message Parameters

Name	Type
circ1	IP
circ2	IP
id1	IP
id2	IP
rtid1	IP
rtid2	IP
age1	uInt

Name	Type
age2	uInt
seq1	xInt32
seq2	xInt32

ospf.lsa.DelPendLSReq

Description

Used when ospf deletes the LSA from link list request list of the neighbor while processing received LSA. %lsid%: the Link State ID of the LSA. %rtid%: the advertise router ID of the LSA. %age%: the age of the LSA. %nbr%: the neighbor's IP address which sends the LSA. %state%: the state of the neighbor.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Deleting pending Link State Request with lsid `%lsid%` rtid `%rtid%` age `%age%` nbr `%nbr%` state `%state%`.

Message Parameters

Name	Type
lsid	IPN
rtid	IPN
age	uInt
nbr	IPN
state	uInt

ospf.lsa.DropNotMinArrivTime

Description

Used when ospf processes one received LSA, it find one version of the LSA in its database, the LSA in database is received within the minimum arrival time. %lsai%: the pointer of the LSA in database.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Drop one LSA with lsai `%lsai%` which is received within the minimum arrival time.

Message Parameters

Name	Type
lsai	Ptr

ospf.lsa.ProcFunc

Description

When ospf processes one received LSA, it could "added", "purging" or "updated" the LSA. %action%: It could be "added", "purging" or "updated". %lsai%: the pointer of the LSA structure. %type%: the LSA type. %rtid%: the advertise router ID of the LSA. %lsid%: the Link State ID of the LSA. %age%: the age of the LSA. %seq%: the sequence number of the LSA.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

`%action%` one LSA with lsai `%lsai%` type `%type%` rtid `%rtid%` lsid `%lsid%` age `%age%` seq `%seq%`.

Message Parameters

Name	Type
action	String
lsai	Ptr
type	uInt
rtid	IPN
lsid	IPN
age	uInt
seq	xInt32

ospf.lsa.DelLSRtxListEnt

Description

When ospf deletes one LSA from the retransmit list of the neighobr which receive it. %lsai%: the pointer of LSA. %nbr%: the IP address of the neighbor.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Deleting one LSA `%lsai%` from reetransmit list deleting of nbr `%nbr%`.

Message Parameters

Name	Type
lsai	Ptr
nbr	IP

ospf.lsa.DropOld

Description

When ospf receives an older LSA comparing to the version of the database, it ignores the LSA.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Receiving old version of LSA, ignoring.

ospf.lsa.TxLSAckNbrNotUpdt

Description

When ospf processes one received external type-5 LSA, it sends LS ACK instead of asking the neighor to update its new version. %lsid%: the Link State ID of the LSA. %mask%: the network mask of the LSA. %area%: the area ID the received interface belongs to.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Sending LS Ack instead of updating nbr for old external LSA lsId `%lsid%` mask `%mask%` area `%area%`.

Message Parameters

Name	Type
lsid	IPN
mask	IPN
area	IPN

ospf.lsa.CmpAge

Description

When ospf compares the received LSA with the LSA in the database. %seq%: the sequence number of the received LSA. %age%: the age of the received LSA. %csum%: the checksum of the received LSA. %seq2%: the sequence number of the LSA in database. %age2%: the age of the LSA in database. %csum2%: the checksum of the LSA in database.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Comparing age of LSA(seq `%seq%` age `%age%` csum `%csum%`) with database version(seq `%seq2%` age `%age2%` csum `%csum2%`).

Message Parameters

Name	Type
seq	xInt32
age	uInt
csum	xInt32
seq2	xInt32
age2	uInt
csum2	xInt32

ospf.lsa.BldType1

Description

Used when ospf builds its router-LSA in one specific area. %a%: the pointer of the area structure. %as%: the area ID of the area. %mod%: It may need to do snmp trap if it is set to 1.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Building router-LSA on area a=`%a%`(`%as%`, mod=`%mod%`).

Message Parameters

Name	Type
a	Ptr
as	IPN
mod	uInt

ospf.lsa.BldType2Strt

Description

Used when ospf starts to build its own network-LSA. %if_ip%: the interface IP address. %if_mask%: the interface IP mask. %state%: the state of the interface. %trig%: the interface's triagger flag, it could be "need do dr elect", etc.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Starting to building network-LSA with `%if_ip%`/`%if_mask%` state `%state%` dr_trig `%trig%`.

Message Parameters

Name	Type
if_ip	IPN
if_mask	IPmaskval
state	String
trig	uInt

ospf.lsa.BldType2Fnd

Description

When ospf builds its own network-LSA, it finds one copy in its database. %lsai%: the pointer of the LSA in database. %flag%: the flag of the LSA in database. %age%: the age of the LSA in database. %seq%: the sequence number of the LSA in database.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Found own network-LSA lsai `%lsai%` flags `%flag%` age `%age%` seq `%seq%` while building.

Message Parameters

Name	Type
lsai	Ptr
flag	uInt
age	uInt
seq	uInt

ospf.lsa.DelType2NotDR

Description

Used when ospf purging its own network-LSA when the interface is no-longer DR. %lsai%: the pointer of the LSA structure.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Deleting own network-LSA `%lsai%` when the interface is no longer DR.

Message Parameters

Name	Type
lsai	Ptr

ospf.lsa.BldType2NotDone

Description

Used when ospf does not build its network-LSA in this interface. %ip%: the IP address of the interface. %mask%: the IP mask of the interface.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Building own network-LSA `%ip%/%mask%` is not done.

Message Parameters

Name	Type
ip	IPN
mask	IPN

ospf.lsa.BldType2Pstpn

Description

Used when ospf decides to build its network-LSA later since it is within minimum arrival time period.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Building own network-LSA after the minumum arrival timer expiration.

ospf.lsa.PurgeType2MaxSeqNum

Description

Used when ospf builds its network-LSA, the sequence number of the local LSA reaches the maximum limit. %lsai%: the pointer of the LSA. %seq%: the sequece number of the LSA>

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

ospf Build My Net links: Purge and return lsai `%lsai%`, reached max seqNum `%seq%`.

Message Parameters

Name	Type
lsai	Ptr
seq	xInt32

ospf.lsa.BldType2Func

Description

Used when ospf adds or updates its own network-LSA. %action%: It could be "added" or "updated" %lsai%: the pointer of the LSA structure.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

`%action%` network-LSA `%lsai%`.

Message Parameters

Name	Type
action	String
lsai	Ptr

ospf.lsa.BldType2Done

Description

Used when ospf ends to build its own network-LSA. %if_ip%: the interface IP address. %if_mask%: the interface IP mask. %state%: the state of the interface. %trig%: the interface's triagger flag, it could be "need do dr elect", etc.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Completly building own network-LSA `%ip%`/`%mask%` state `%state%` dr_trig `%trig%`.

Message Parameters

Name	Type
ip	IPN
mask	IPmaskval
state	String
trig	uInt

ospf.lsa.BldType34

Description

Used when ospf builds summary-LSA. %sh%: the pointer of the summary header structure. %mod%: when it is set to 1, it may need to do snmp trap.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Building own type-3 or type-4 LSA with (sh=`%sh%`, mod=`%mod%`).

Message Parameters

Name	Type
sh	Ptr
mod	uInt

ospf.lsa.BldDfltType3

Description

Used when ospf builds default summary-LSA. %a%: the pointer of the area. %as%: the area ID of the area. %mod%: when it is set to 1, it may need to do snmp trap.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Building one default summary-LSA with (a=`%a%`[`%as%`, mod=`%mod%`)

Message Parameters

Name	Type
a	Ptr
as	IPN
mod	uInt

ospf.lsa.BldDfltType7

Description

Used when ospf builds default type-7 LSA. %a%: the pointer of the area. %as%: the area ID of the area. %mod%: when it is set to 1, it may need to do snmp trap.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Building default type-7 LSA (a=`%a%`[`%as%`], mod=`%mod%`).

Message Parameters

Name	Type
a	Ptr
as	IPN
mod	uInt

ospf.lsa.BldType5

Description

Used when ospf builds AS-external link. %ase%: the pointer of the as-external header structure. %mod%: when it is set to 1, it may need to do snmp trap. %lsid%: the new Link State ID.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Building own type-5 LSA (ase=`%ase%`, mod=`%mod%`, newLsid=`%lsid%`).

Message Parameters

Name	Type
ase	Ptr
mod	uInt
lsid	Ptr

ospf.lsa.CalcType7FwdAddr

Description

Used when ospf compute forwarding address for type-7 LSA. %area%: the pointer of the area. %id%: the area ID. %ase%: the pointer of the external header structure. %lsid%: the Link State ID of the LSA. %ptr%: the pointer of the build in return address.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Computing Type7 Fwd Address (area=`%area%`[`%id%`], ase=`%ase%`[`%lsid%`], ra=`%ra%`.

Message Parameters

Name	Type
area	Ptr
id	IPN
ase	Ptr
lsid	IPN
ra	Ptr

ospf.lsa.CalcType7FwdAddrDone

Description

Used when ospf computes the forwarding address for type-7 LSA. %result%: the computed forwarding address.

Remedy

None. This is for debugging,

Severity

Debug-Verbose

Message Text

Computing Type7 forwarding address with the result `%result%`.

Message Parameters

Name	Type
result	IPN

ospf.lsa.BldType7

Description

Used when ospf builds type-7 LSA. %ase%: the pointer of the external header structure. %lsid%: the Link State ID of the LSA. %area%: the pointer of the area. %id%: the area ID. %mod%: when it is set to 1, it may need to do snmp trap. %ra%: the pointer of the build in return address.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Building type-7 LSA (ase=`%ase%`[`%lsid%`], area=`%area%`[`%id%`], mod=`%mod%`), ra=`%ra%`.

Message Parameters

Name	Type
ase	Ptr
lsid	IPN
area	Ptr
id	IPN
mod	uInt
ra	Ptr

ospf.lsa.RxLSAck

Description

Used when ospf receives LS Ack. %id%: the Link State ID of the LS Ack. %rtid%: the advertise router ID of the LS Ack. %nbr%: the router ID of the neighbor.

Remedy

None. This is an informational message

Severity

Debug-Summary

Message Text

Receiving LSA Ack lsaid `%id%` lsartid `%rtid%` nbr `%nbr%`.

Message Parameters

Name	Type
id	IPN
rtid	IPN
nbr	IPN

ospf.lsa.TxDrctLSAck

Description

Used when ospf sends direct LS Ack. %id%: the Link State ID of the LS Ack. %rtid%: the advertise router ID of the LS Ack. %nbr%: the router ID of the neighbor.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Sending direct ACK lsaid `%id%` lsartid `%rtid%` nbr `%nbr%`.

Message Parameters

Name	Type
id	IPN
rtid	IPN
nbr	IPN

ospf.lsa.EnqDlayLSAck

Description

Used when queues the delayed LS Ack. %id%: the Link State ID of the LS Ack. %rtid%: the advertise router ID of the LS Ack. %nbr%: the router ID of the neighbor.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Queuing Delayed Ack lsaid `%id%` lsartid `%rtid%` nbr `%nbr%`.

Message Parameters

Name	Type
id	IPN
rtid	IPN
nbr	IPN

ospf.lsa.TxDlayLSAck

Description

Used when ospf sends delayed LS Ack on one interface. %ip%: the interface IP address.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Sending Delayed Ack on interface `%ip%`.

Message Parameters

Name	Type
ip	IPN

ospf.lsa.LSUpdtPktInv

Description

Used when ospf receives bad LS Update packet. %type%: the packet type. %ip%: the interface IP address.

Remedy

None. This is for debugging

Severity

Warning

Message Text

Receiving Bad pkt (type `%type%`) from interface `%ip%`.

Message Parameters

Name	Type
type	uInt
ip	IPN

ospf.lsa.RtxListNbr

Description

Used when ospf retransmit LSA to one neighbor. %rtid%: the router ID of the neighbor.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Reetransmitting one LSA to neighbor `%rtid%`.

Message Parameters

Name	Type
rtid	IPN

ospf.lsa.AddRtxList

Description

Used when ospf add retransmit LSA to retransmitting queue. %id%: the Link State ID of the LSA. %rtid%: the advertise router ID of the LSA.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

Adding LSA with id `%id%` rtr `%rtid%` to retransmitting queue.

Message Parameters

Name	Type
id	IPN
rtid	IPN

ospf.lsa.CalcFwdAddr

Description

Used when ospf compute forwarding address for one area. %area%: the area ID. %fwd%: the cached forwarding address of the area. %flags%: the flag of the area.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Computing forwarding address on (area=`%area%`) with cached forwarding address`%fwd%` and flag `%flags%`.

Message Parameters

Name	Type
area	IPN
fwd	IPN
flags	uInt

ospf.lsa.CalcFwdAddrDone

Description

Used when ospf finishes computing forwarding address for one area. %changed%: the forwarding address is changed or not, it is "with" or "without". %fwd%: the cached forwarding address of the area. %flags%: the flag of the area.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Computing forwarding address `%change%` change, cached forwarding address `%fwd%` and flagg `%flags%`.

Message Parameters

Name	Type
change	uInt
fwd	IPN
flags	uInt

ospf.lsa.RbldType7

Description

Used when ospf rebuilds type-7 LSA. %circ%: the pointer of interface structure. %ip_int%: the IP address of the interface. %area%: the NSSA area.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Rebuilding type-7 LSA with circuit=`%circ%`[`%ip_int%`], area=`%area%`.

Message Parameters

Name	Type
circ	Ptr
ip_int	IPN
area	IPN

ospf.lsa.IncrSeqNum

Description

Used when ospf receives its own originated LSA. It shall sends LSA with sequence number increased by one. %lsai%: the pointer of the LSA in database. %type%: the LSA type. %rtid%: the advertise router ID of the LSA %lsid%: the link State ID of the LSA %age%: the age of the LSA. %oldseq%: the old sequence number of the LSA. %newseq%: the new sequence number of the LSA.

Remedy

None. This is for debugging

Severity

Warning

Message Text

Sending its LSA with lsai `%lsai%` type `%type%` rtid `%rtid%` lsid `%lsid%` age `%age%` oldseq `%oldseq%` newseq `%newseq%` by incrementing sequence number by 1.

Message Parameters

Name	Type
lsai	Ptr
type	uInt
rtid	IPN
lsid	IPN
age	uInt
oldseq	xInt32
newseq	xInt32

ospf.lsa.DfltType7AlrdyExist

Description

Used when ospf tries to build type-7 default LSA which an exported default exists.

Remedy

None. This is for debugging.

Severity

Warning

Message Text

Building a Type-7 Default LSA.

ospf.lsa.StrtBatchTx

Description

Used when ospf begins to do LSA batch. %time%: the seconds after the ospf timer thread is created.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

OSPF LSA Batch Interval Starting at `%time%`.

Message Parameters

Name	Type
time	uInt

ospf.lsa.Warning

Description

A warning condition has occurred. The message contains details.

Remedy

None

Severity

Warning

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

ospf.lsa.DebugSummary

Description

A summary debug condition has occurred. The message contains details.

Remedy

None

Severity

Debug-Summary

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

ospf.lsa.DebugVerbose

Description

A verbose debug condition has occurred. The message contains details.

Remedy

None

Severity

Debug-Verbose

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

ospf.lsa.DelExtRt

Description

Used when ospf processes external route. %inase%: the pointer of external route structure. %ip%: the IP address of the external route. %mask%: the IP mask of the external route. %nhs%: the IP address of the next hop of the external route. %nh%: It is set to 1 when using next hop to calculate forwarding address of LSA.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Deleting an external route (inase=`%inase%`[`%ip%`/`%mask%`, nh=`%nhs%`, useNextHop=`%nh%`]).

Message Parameters

Name	Type
inase	Ptr
ip	IPN
mask	IPmaskvalN
nhs	IP
nh	uInt

ospf.lsa.CksumInv

Description

Used when ospf received bad LSA. %lsid%: the Link State ID of the bad LSA. %type%: the type of the bad LSA. %nbr%: the neighbor IP address which sends the bad LSA. %thing%: it could be "len %d" or "checksum".

Remedy

None. This is for debugging.

Severity

Warning

Message Text

Processing received LSA with lsid `%lsid%` type `%type%` from nbr `%nbr%` failed on bad checksum

Message Parameters

Name	Type
lsid	IPN
type	uInt
nbr	IPN

ospf.lsa.NotAgeOut

Description

Used when ospf updates LSA, updating the holding timer of LSA. %lsai%: the pointer of LSA structure. %lsid%: the Link State ID of the LSA. %rtid%: the advertise router ID of the LSA, %lsa_age%: the age of the LSA. %seq%: the sequence number of the LSA.

Remedy

None. This is for debugging

Severity

Debug-Verbose

Message Text

Holding off deleting the hold time of Lsai `%lsai%` lsid `%lsid%` rtid `%rtid%` lsa_age `%lsa_age%` seq `%seq%`.

Message Parameters

Name	Type
lsai	Ptr
lsid	IPN
rtid	IPN
lsa_age	uInt
seq	uInt

ospf.lsa.RxMbufDump

Description

Internal mbuf (memory buffer) dump during input processing.

Remedy

None. This is for debugging

Severity

Debug-Data

Message Text

To vlan `%vlan%`, len `%len%`, msg `%mbufPtr%`.

Message Parameters

Name	Type
vlan	String
mbufPtr	Buf-ptr
len	Buf-len

ospf.lsa.TxDataDump

Description

Packet dump during output processing.

Remedy

None. This is for debugging

Severity

Debug-Data

Message Text

From vlan `%vlan%`, len `%len%`, msg `%bufPtr%`.

Message Parameters

Name	Type
vlan	String
bufPtr	Buf-ptr
len	Buf-len

ospf.lsa.BldType9Grace

Description

Used ospf when builds grace lsa for graceful restart %interface%: vlan name %reason% : reason for the graceful restart

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

OSPF builds Grace-LSA for interface `%interface%` with reason - `%reason%`.

Message Parameters

Name	Type
interface	String
reason	String

ospf.lsa.DropRtrLSAMaxLinkExcd

Description

Used when OSPF drops router LSA which contains links more than the supported limts in an area. %lsid%: Link state ID of the router LSA. %nbr%: neighbor ip address. %numlink%: number of links in router LSA %suplimit%: max supported interface in an area

Remedy

Please configure OSPF area to have number of interfaces within the specified limit

Severity

Warning

Message Text

Dropped router LSA (lsid `%lsid%`) from neighbor `%nbr%` which has `%numlink%` links (more than the supported limit `%suplimit%`)

Message Parameters

Name	Type
lsid	IPN
nbr	IPN
numlink	uInt16
suplimit	uInt16

ospf.lsa.DropRtrLSAIDMismatch

Description

Occurs when OSPF drops Router LSA because Link State ID and Advertising Router are not the same.

Remedy

A router in the network is sending incorrect LSAs. Please locate and correct the router.

Severity

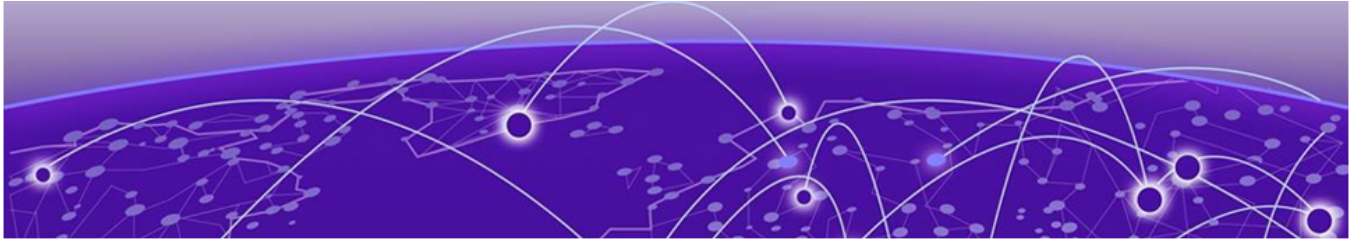
Warning

Message Text

Dropped Router LSA from neighbor `%nbr%` because Link State ID `%lsid%` and Advertising Router `%artr%` are not the same.

Message Parameters

Name	Type
nbr	IPN
lsid	IPN
artr	IPN



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ospf.neighbor.TxPkt

Description

Used when ospf sends DD packet or LS Req packet. %vlan%: the vlan name which sends the packet. %pkttype%: the packet type. It is DD or LS Req. %dst%: the destination IP address of the packet. %len%: the length of the packet. %intf%: the pointer of ospf vlan structure which sends the packet. %pktnum%: the number of packets which have been transmitted.

Remedy

None. This is an informational message.

Severity

Debug-Summary

Message Text

`%vlan%` sends `%pkttype%` pkt to `%dst%` (length `%len%`, interface `%intf%`, pkt num `%pktnum%`).

Message Parameters

Name	Type
vlan	VLAN
pkttype	String
dst	IPN
len	uInt
intf	Ptr
pktnum	uInt

ospf.neighbor.PktRx

Description

Used when ospf correctly receives DD or LS Req packet. %vlan%: the ospf vlan which receives the packet. %pkttype%: the packet type, it is DD or LS Req packet. %src%: the source IP address of the packet.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

OSPF Nbr `%vlan%` recevies type `%pkttype%` pkt from `%src%`.

Message Parameters

Name	Type
vlan	VLAN
pkttype	uInt
src	IPN

ospf.neighbor.PktInv

Description

Used when ospf does not correctly receive DD or LS Req packet. %vlan%: the ospf vlan which received the message. %pkttype%: the packet type. It is DD or LS Req packet. %src%: the source IP address of the received packet. %reason": the failure reason.

Remedy

If failure happens due to configuration issue, that needs to be corrected.

Severity

Warning

Message Text

OSPF Nbr `%vlan%` receives type `%pkttype%` pkt from `%src%` failed `%reason%`.

Message Parameters

Name	Type
vlan	VLAN
pkttype	uInt
src	IPN
reason	String

ospf.neighbor.ElectDR

Description

Used when DR and BDR is elected on a broadcast interface. %vlanname%: the vlan name which connected to a broadcast network. %dr%: elected IP address of DR. %bdr%: elected IP address of BDR.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

Electing DR on interface `%vlanname%`, DR is `%dr%`, BDR is `%bdr%`.

Message Parameters

Name	Type
vlanname	VLAN
dr	IPN
bdr	IPN

ospf.neighbor.TxDD

Description

Used when ospf sends DD packet. %rtid%: the router ID of the neighbor. %seq%: the sequence number of the DD packet. %flagI%: the Initial flag. It is set to "I" if the packet is initial packet. %flagM%: the More flag. It is set to "M" if the packet has more packets following. %flagMS%: the Master/Slave flag. It is set to "MS" if the local ospf switch thinks that it is the Master.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

Sending DD to `%rtid%` with seq `%seq%` flags `%flagI%%flagM%%flagMS%`.

Message Parameters

Name	Type
rtid	IPN
seq	xInt32
flagI	String
flagM	String
flagMS	String

ospf.neighbor.SkipExtLSA

Description

Used when ospf skip filtered external LSA when sending DD packet. %id%: the skipped LSA's ID. %mask%: the skipped external LSA's network mask. %nbr%: the neighbor's IP address %area%: the area ID.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

Skipping external Lsa lsId `%id%` mask `%mask%` in database exchange for nbr `%nbr%` area `%area%`.

Message Parameters

Name	Type
id	IPN
mask	IPmaskvalN
nbr	IPN
area	IPN

ospf.neighbor.ProcInvLSREvent

Description

Used when handling bad LS Req event.

Remedy

None. Unwanted event occured in protocol operation.

Severity

Debug-Summary

Message Text

Processing Link State Request invalid event.

ospf.neighbor.ChgState

Description

Used when ospf neighbor changes its state. %rtid%: neigbhor router ID. %ip%: neighbor IP address. %state%: the state which the neighbor changes to. %reason%: the reason why the state transition is happening. The possible state is "DOWN", "ATTEMPT", "2WAY", "INIT", "EX_START", "EXCHANGE", "LOADING" and "FULL".

Remedy

None. This is an informational message.

Severity

Notice

Message Text

Changing the state of neighbor rtid `%rtid%` ipa `%ip%` to state = `%state%` `%reason%`.

Message Parameters

Name	Type
rtid	IPN
ip	IPN
state	String
reason	String

ospf.neighbor.ProcDD

Description

Used when ospf process DD packet. %nbr%: the neighbor router ID which sends the DD packet. %seq%: the sequence number of the DD packet. %flagI": the Initial flag. It is set to "I" when the DD packet is the first one. %flagM%: the More flag. It is set to "M" when more packets will follow the received DD packet. %flagMS%: the "Master/Slave" flag. It is set to "MS" if the neighbor thinks it is the Master.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

Processing DD Packet from neighbor `%nbr%` with seq `%seq%` flags `%flagI%%flagM% %flagMS%`.

Message Parameters

Name	Type
nbr	IPN
seq	xInt32
flagI	String
flagM	String
flagMS	String

ospf.neighbor.MstrSlave

Description

Used when ospf determine the neighor is Master or Slave. %MS%: It is set to "Master" when the neighbor is Master.

Remedy

None. This is for debugging

Severity

Debug-Summary

Message Text

The neighbor with IP `%ip%` and rtid `%rtid%` is `%MastSlv%`

Message Parameters

Name	Type
ip	IPN
rtid	IPN
MastSlv	String

ospf.neighbor.ProcDDFail

Description

Used to report error DD packet when the neighbor is in Exchange state. %reason%: Failure reason, it could be "Neighbor DD's Initial flag is set", "mismatch Master/Slave", "sequence mismatch", "option mismatch" etc. %rtid%: Neighbor's router ID.

Remedy

None. Unwanted event occured in protocol operation.

Severity

Warning

Message Text

Processing DD from neighbor `%rtid%` fails on `%reason%`.

Message Parameters

Name	Type
rtid	IPN
reason	String

ospf.neighbor.VLANWarning

Description

A warning condition has occurred on the given VLAN.

Remedy

None. This is for debugging.

Severity

Warning

Message Text

Vlan (`%bridgeInst%`) - `%msg%`

Message Parameters

Name	Type
bridgeInst	VLAN
msg	Printf

ospf.neighbor.VLANDebugSummary

Description

A summary debug condition has occurred on the given VLAN.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

Vlan (instance `%bridgeInst%`) - `%msg%`

Message Parameters

Name	Type
bridgeInst	VLAN
msg	Printf

ospf.neighbor.VLANDebugVerbose

Description

A verbose debug condition has occurred on the given VLAN.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Vlan (`%bridgeInst%`) - `%msg%`

Message Parameters

Name	Type
bridgeInst	VLAN
msg	Printf

ospf.neighbor.VLANRxMbufDump

Description

Internal mbuf (memory buffer) dump during input processing.

Remedy

None. This is for debugging.

Severity

Debug-Data

Message Text

To vlan `%vlan%`, len `%len%`, msg `%mbufPtr%`.

Message Parameters

Name	Type
vlan	String
mbufPtr	Buf-ptr
len	Buf-len

ospf.neighbor.VLANTxDataDump

Description

Packet dump during output processing.

Remedy

None. This is for debugging.

Severity

Debug-Data

Message Text

From vlan `%vlan%`, len `%len%`, msg `%bufPtr%`.

Message Parameters

Name	Type
vlan	String
bufPtr	Buf-ptr
len	Buf-len

ospf.neighbor.DDMTUMismatch

Description

Received DD packet has MTU mismatch. The adjacency will not go to full state. %nbr%: the neighbor router ID which sends the DD packet. %local_mtu%: MTU for the interface on local router. %remote_mtu": MTU of the interface on remote router.

Remedy

Please configure same interface MTU in both the end of ospf adjacency

Severity

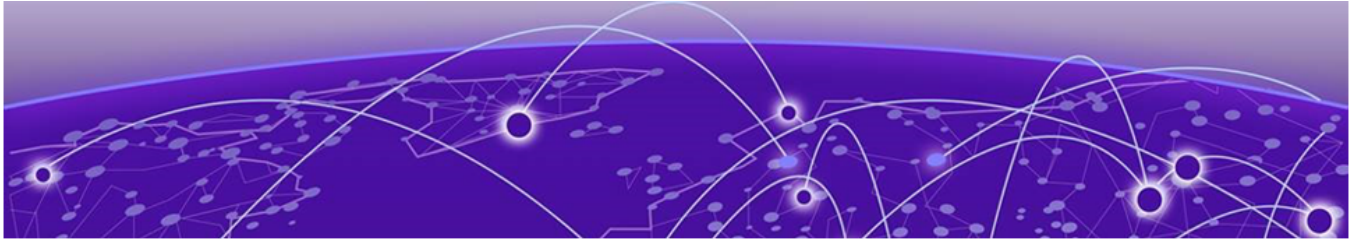
Warning

Message Text

MTU mismatch for DD Packet from neighbor `%nbr%` local MTU `%local_mtu%` recvd MTU `%remote_mtu%`.

Message Parameters

Name	Type
nbr	IPN
local_mtu	uInt
remote_mtu	uInt



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ospf.spf.ReplHighCostTmpPathEnt on page 3711
ospf.spf.AddTmpPathEnt on page 3712
ospf.spf.AddType3LSATmpPathEnt on page 3713
ospf.spf.IntraAreaCalcStrt on page 3713
ospf.spf.IntraAreaCalcDone on page 3714
ospf.spf.InterAreaCalcStrt on page 3714
ospf.spf.ExtndABRInterAreaCalc on page 3715
ospf.spf.InterAreaCalcDone on page 3716
ospf.spf.ExtCalcStrt on page 3716
ospf.spf.ExtndASBRExtCalc on page 3717
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ospf.spf.TmpPathEntAdd

Description

Used when tent to SPF TENT is added. %pent%: the pointer of tent entry which is added. %hop%: the number of next hops which can reach the destination. %ip%: the IP address of the destination. %mask%: the IP mask of the destination. %cost%: the Type 1 cost of the destination. %cost2%:the Type 2 cost of the destination. %type%: the pent type. %lsai%: the associated pointer of LSAI. %hash%: the hash number of the pent.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Temporary Path Entry `%pent%` numHops `%hop%` `%ip%`/`%mask%` cost `%cost%` cost2 `%cost%` type `%type%` lsai `%lsai%` hashbucket `%hash%` added.

Message Parameters

Name	Type
pent	Ptr
hop	uInt
ip	IPN
mask	IPmaskvalN

Name	Type
cost	uInt
cost2	uInt
type	uInt
lsai	Ptr
hash	uInt

ospf.spf.AddIntASBR

Description

Used when ospf add internal AS boundary router to NSSA area. %vid%: the router ID of the internal AS boundary router. %type%: the associated LSA type. %artr%: the advertise router ID of the associated LSA. %lsid%: the Link State ID of the associated LSA. %area%: the area ID of the NSSA.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Adding Internal ASBR Vid `%vid%` Type `%type%` Artr `%artr%` Lsid `%lsid%` in Area `%area%`.

Message Parameters

Name	Type
vid	IPN
type	uInt
artr	IPN
lsid	IPN
area	IPN

ospf.spf.IntASBRDupFnd

Description

Used when ospf finds duplicate internal AS boundary router in NSSA area. %vid%: the router ID of the internal AS boundary router. %type%: the type of the associated LSA. %artr%: the advertise router ID of the associated LSA. %lsid%: the link State ID of the associated LSA. %area%: the area ID of the NSSA.

Remedy

None. This is for debugging.

Severity

Critical

Message Text

Duplicate Vertex Vid `%vid%` Type `%type%` Artr `%artr%` Lsid `%lsid%` in Area `%area%` is found.

Message Parameters

Name	Type
vid	IP
type	uInt
artr	IP
lsid	IP
area	IP

ospf.spf.DelAddTmpPathEnt

Description

Used when ospf replaces router type of tent entry.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Deleting and Adding Temporary Path Entry.

ospf.spf.ReplTmpPathEnt

Description

Used when ospf replaces tent entry with new one. %pent%: the pointer of pent structure. %hop%: the number of next hops of the new pent. %cost%: the Type-1 cost of the new pent. %cost2%:the Type-2 cost of the new pent. %type%: the type of the pent.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Replacing temporary path entry `%pent%` with numHops `%hop%` cost `%cost%` cost2 `%cost2%` type `%type%`.

Message Parameters

Name	Type
pent	Ptr
hop	uInt
cost	uInt
cost2	uInt
type	uInt

ospf.spf.TmpPathEntUpdt

Description

Used when ospf successfully replace the tent entry by new one. %pent%: the pointer of the pent. %hop%: the number of next hops of the new pent. %ip%: the IP address of the pent. %mask%: the IP mask of the pent. %cost%: the Type-1 cost of the pent. %cost2%: the Type-2 cost of the pent. %type%: the type of the pent. %lsai%: the pointer of associated LSA.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Temporary path entry `%pent%` numHops `%hop%` `%ip%`/`%mask%` cost `%cost%` cost2 `%cost2%` type `%type%` lsai `%lsai%` is updated.

Message Parameters

Name	Type
pent	Ptr
hop	uInt
ip	IPN
mask	IPmaskvalN
cost	uInt
cost2	uInt
type	uInt
lsai	Ptr

ospf.spf.IgnTmpPathEntLowCost

Description

Used when ospf tries to add a tent entry to SPF TENT, but find a same tent (same IP) with lower cost. Stop adding the new pent. %id%: IP address of the pent. Type %id% ---------- Point-to-Point Neighboring router's Router ID Transit Networks IP address of the Designated Router Stub Network IP network/subnet number Virtual Link Neighboring router's Router ID %data%: IP mask of the pent. Value depends on the link's Type field. For connections to stub networks, it specifies the network's IP address. For the other link types it specified the router interface's IP address. %cost%: the cost of the found same pent.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Found temporary path entry `%id%`/`%data%` with lower cost `%cost%`. Ignoring.

Message Parameters

Name	Type
id	IPN
data	IPN
cost	uInt

ospf.spf.MergeTmpPathEntEqlCost

Description

Used when ospf tries to add a tent entry to SPF TENT, find a same tent with same cost as the new pent. Merge the pent to the found tent. %id%: the IP address of the pent. %data%: the IP mask of the pent. %cost%: the cost of the pent.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Found tent `%id%`/`%data%` with equal cost `%cost%`. Merging.

Message Parameters

Name	Type
id	IPN
data	IPN
cost	uInt

ospf.spf.IgnTmpPathEntEqlCost

Description

Used when ospf tries to add tent entry to SPF TENT, find a equal cost pent (with same IP) for multicast OSPF and could not do the replacement. Ignore the new pent. %id%: the IP address of the pent. %data%: the IP mask of the pent. %cost%: the cost of the pent.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Found tent `%id%`/`%data%` equal cost `%cost%`. Ignoring.

Message Parameters

Name	Type
id	IPN
data	IPN
cost	uInt

ospf.spf.ReplHighCostTmpPathEnt

Description

Used when ospf tries to add new pent to SPF TENT, find a higher cost pent (with same IP), replace it with the new pent. %id%: the IP address of the pent. %data%: the IP mask of the pent. %cost%: the cost of the found pent.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Found tent `%id%`/`%data%` higher cost `%cost%`. Replacing.

Message Parameters

Name	Type
id	IPN
data	IPN
cost	uInt

ospf.spf.AddTmpPathEnt

Description

Used when ospf tries to add a new pent to SPF TENT, no found in TENT, just add the new one. %id%: the IP address of the pent. %data%: the IP mask of the pent. %cost%: the cost of the pent.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Adding tent `%id%`/`%data%` cost=`%cost%`.

Message Parameters

Name	Type
id	IPN
data	IPN
cost	uInt

ospf.spf.AddType3LSATmpPathEnt

Description

Used when ospf tries to summary-net LSA as a pent to SPF TENT. %lsa%: the pointer of the summary LSA. %id%: the IP address of the pent. %data%: the IP mask of the pent. %cost%: the cost of the pent.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Trying to add summary LSA `%lsa%` `%id%`/`%data%` cost `%cost%` to tent.

Message Parameters

Name	Type
lsa	Ptr
id	IPN
data	IPN
cost	uInt

ospf.spf.IntraAreaCalcStrt

Description

Used when ospf starts intra-area SPF on one area. %area%: the area ID of the SPF running.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

Start Intra area SPF on Area `%area%`.

Message Parameters

Name	Type
area	IPN

ospf.spf.IntraAreaCalcDone

Description

Used when ospf ends intra-area SPF on one area. %area%: the area ID of the SPF.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

End Intra Area SPF on Area `%area%`.

Message Parameters

Name	Type
area	IPN

ospf.spf.InterAreaCalcStrt

Description

Used when ospf start inter-area or transit area SPF on one area. %area%: the area ID which runs the SPF. %uflag%: If it is set to 0, it is intra-area SPF. Otherwise, it is transit area SPF.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

Start Inter Area SPF on Area `%area%` uflag `%uflag%`.

Message Parameters

Name	Type
area	IPN
uflag	uInt

ospf.spf.ExtndABRInterAreaCalc

Description

Used when ospf extends one area border router in running SPF. %rtid%: the router ID of the extended ABR.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Extending ABR `%rtid%` while run inter SPF.

Message Parameters

Name	Type
rtid	IPN

ospf.spf.InterAreaCalcDone

Description

Used when ospf ends inter-area or transit area SPF on one area. %area%: the area ID which runs the SPF. %uflag%: If it is set to 0, it is intra-area SPF. Otherwise, it is transit area SPF.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

End ospf Inter area SPF on `%area%` uflag `%uflag%`.

Message Parameters

Name	Type
area	IPN
uflag	uInt

ospf.spf.ExtCalcStrt

Description

Used when ospf starts running external SPF. %flag%: It is set to 1 when running the external SPF at the beginning.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

Start Extern Spf with flag `%flag%`.

Message Parameters

Name	Type
flag	uInt

ospf.spf.ExtndASBRExtCalc

Description

Used when ospf extends one AS boundary router when running external SPF. %rtid%: the router ID of the AS boundary router. %is_first%: It is set to 1 when ospf runs the external SPF at the beginning.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Extending ASBR `%rtid%` is_first = `%is_first%`.

Message Parameters

Name	Type
rtid	IPN
is_first	uInt

ospf.spf.ExtndIntASBRExtCalc

Description

Used when ospf extends one internal AS boundary router of NSSA area when running external SPF. %rtid%: the router ID of the AS boundary router. %area%: the area ID of the NSSA area. %is_first%: It is set to 1 when ospf runs the external SPF at the beginning.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Extending Internal ASBR `%rtid%` Area `%area%` is_first = `%is_first%`.

Message Parameters

Name	Type
rtid	IPN
area	IPN
is_first	uInt

ospf.spf.ExtCalcDone

Description

Used when ospf ends external SPF. %is_first%: It is set to 1 when ospf runs the external SPF at the beginning.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

End Extern SPF with flag `%flag%`.

Message Parameters

Name	Type
flag	uInt

ospf.spf.ProcInterAreaRt

Description

Used when ospf adds inter-area routes to kernel routing table or leak inter-area routes to other areas as summary routes. %action%: the possible string should be "add", "leaking" and "unable add". %pent%: the pointer of the pent. %pent_ip%: the IP address of the route. %pent_mask%: the IP mask of the route. %hop%: the number of next hops to the destination. %cost%: the Type 1 cost to the destination. %cost2%: the Type 2 cost to the destination. %type%: the pent type. %lsai%: the associated pointer of LSA structure. %tentbucket%: the hash key in PATH.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

`%action%` route pent `%pent%` `%pent_ip%`/`%pent_mask%` numhops `%hop%` cost `%cost%` cost2 `%cost2%` type `%type%` lsai `%lsai%` tentbucket `%tentbucket%`.

Message Parameters

Name	Type
action	String
pent	Ptr
pent_ip	IPN
pent_mask	IPmaskvalN
hop	uInt
cost	uInt
cost2	uInt
type	uInt
lsai	Ptr
tentbucket	uInt

ospf.spf.TrnstAreaRtTblUpdtStrt

Description

Used when ospf starts updating the routing table from the transit area.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

Start transit area routing table update.

ospf.spf.TrnstAreaLeakSummRt

Description

Used when ospf leaks inter-area routes to other areas as summary routes. %pent%: the pointer of the pent. %pent_ip%: the IP address of the route. %pent_mask%: the IP mask of the route. %hop%: the number of next hops to the destination. %cost%: the Type 1 cost to the destination. %cost2%: the Type 2 cost to the destination. %type%: the pent type. %lsai%: the associated pointer of LSA structure. %tentbucket%: the hash key in PATH.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Pent `%pent%` `%pent_ip%`/`%pent_mask%` numhops `%hopcount%` cost `%cost%` cost2 `%cost2%` type `%type%` lsai `%lsai%` tentbucket `%tentbucket%` is leaked to other areas as a summary route.

Message Parameters

Name	Type
pent	Ptr
pent_ip	IPN
pent_mask	IPmaskvalN
hopcount	uInt
cost	uInt
cost2	uInt
type	uInt
lsai	Ptr
tentbucket	uInt

ospf.spf.GetMinCostTmpPathEnt

Description

Used when ospf selects the pent with minimum cost from SPF TENT. %pent%: the pointer of the pent which has minimum cost in SPF TENT.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Get minimum cost tent `%pent%`

Message Parameters

Name	Type
pent	Ptr

ospf.spf.ExtndTmpPathEnt

Description

Used when ospf extending one tent entry in SPF. %pent%: the pointer of pent entry.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

Extending temporary path entry `%pent%`.

Message Parameters

Name	Type
pent	Ptr

ospf.spf.Warning

Description

A warning condition has occurred. The message contains details.

Remedy

None.

Severity

Warning

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

ospf.spf.DebugSummary

Description

A summary debug condition has occurred. The message contains details.

Remedy

None.

Severity

Debug-Summary

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

ospf.spf.DebugVerbose

Description

A verbose debug condition has occurred. The message contains details.

Remedy

None.

Severity

Debug-Verbose

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

ospf.spf.TrnstAreaRtTblUpdtDone

Description

Used when ospf ends updating the routing table from the transit area.

Remedy

None. This is for debugging.

Severity

Debug-Summary

Message Text

End transit area routing table update.

ospf.spf.TrnstAreaRtTblUpdt

Description

Used when ospf modifies inter-area routes from transit area updating to kernel routing table. %pent%: the pointer of the pent. %pent_ip%: the IP address of the route. %pent_mask%: the IP mask of the route. %hop%: the number of next hops to the destination. %cost%: the Type 1 cost to the destination. %cost2%: the Type 2 cost to the destination. %type%: the pent type. %lsai%: the associated pointer of LSA structure. %tentbucket%: the hash key in PATH.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Pent `%pent%` `%pent_ip%`/`%pent_mask%` numhops `%hopcount%` cost `%cost%` cost2 `%cost2%` type `%type%` lsai `%lsai%` tentbucket `%tentbucket%` updated

Message Parameters

Name	Type
pent	Ptr
pent_ip	IPN
pent_mask	IPmaskvalN
hopcount	uInt
cost	uInt
cost2	uInt

Name	Type
type	uInt
lsai	Ptr
tentbucket	uInt

ospf.spf.TrnstAreaRtTblUpdtFail

Description

Used when ospf fails to modify inter-area routes from transit area updating to kernel routing table. %pent%: the pointer of the pent. %pent_ip%: the IP address of the route. %pent_mask%: the IP mask of the route. %hop%: the number of next hops to the destination. %cost%: the Type 1 cost to the destination. %cost2%: the Type 2 cost to the destination. %type%: the pent type. %lsai%: the associated pointer of LSA structure. %tentbucket%: the hash key in PATH.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Pent `%pent%` `%pent_ip%`/`%pent_mask%` numhops `%hopcount%` cost `%cost%` cost2 `%cost2%` type `%type%` lsai `%lsai%` tentbucket `%tentbucket%` failed to update.

Message Parameters

Name	Type
pent	Ptr
pent_ip	IPN
pent_mask	IPmaskvalN
hopcount	uInt
cost	uInt
cost2	uInt
type	uInt
lsai	Ptr
tentbucket	uInt

ospf.spf.AddRt

Description

Used when ospf is adding one route to kernel routing table. %ip%: the IP address of the destination. %mask%: the IP mask of the destination. %gw%: the next hope address of the route to the destination. %cost%: the cost to the destination. %area%: the associated area of the destination route. %proto%: the route type, it could be intra-area, inter-area, extern-1 or extern-2.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Adding dst `%ip%`/`%mask%` gw `%gw%` cost `%cost%` area `%area%` `%proto%`.

Message Parameters

Name	Type
ip	IP
mask	IPmaskval
gw	IPN
cost	uInt
area	IPN
proto	String

ospf.spf.NetInheritLsp

Description

Inheirts the parent node's LSP information during SPF computation. Network node in SPF tree always inhrit LSP information from it's parent node, which will be of Router node.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Network node inherit LSP `%num%` type `%type%` XC NHLFEs for `%net%`/`%mask%` from `%node%`

Message Parameters

Name	Type
num	uInt
type	xInt
net	IPN
mask	uInt
node	IP

ospf.spf.RtrFindLsp

Description

Finding LSP information for a Router/Summary ASBR node in SPF tree.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

`%type%` PENT find LSP to Router ID `%rtr1%` instead of `%rtr2%`

Message Parameters

Name	Type
type	String
rtr1	IPN
rtr2	IPN

ospf.spf.RtrLspFound

Description

LSP information to a Router/Summary ASBR node in SPF tree is found.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Found LSP to `%type%` PENT to Router ID `%rtr%`

Message Parameters

Name	Type
type	String
rtr	IPN

ospf.spf.RtrLspNotFound

Description

LSP information to a Router/Summary ASBR node in SPF tree doesn't exist. This router node will use/inherit the LSP information of it's parent node in the SPF tree

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

LSP to `%type%` PENT to Router ID `%rtr%` is not found

Message Parameters

Name	Type
type	String
rtr	IPN

ospf.spf.RtrInheritLsp

Description

LSP information to reach a router is not found in the LSP database. So, Inheirts the parent node's LSP information during SPF computation.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Router node inherit LSP `%num%` type `%type%` XC NHLFEs for `%net%`/`%mask%` from `%node%`

Message Parameters

Name	Type
num	uInt
type	xInt
net	IP
mask	uInt
node	IP

ospf.spf.InvPathType

Description

Invalid Path Entry type encountered while adding LSP information for a Path.

Remedy

None. This is for debugging.

Severity

Error

Message Text

Unexpected type `%type%` for `%net%:%mask%` in ospfAddLspInfo

Message Parameters

Name	Type
type	uInt
net	IP
mask	uInt

ospf.spf.LspPathsMerged

Description

Two or more LSP paths exist for a particular destination. These LSP paths are merged and can be used as equal cost multi path (ECMP) for that destination

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Updated path entry for `%net%`/`%mask%` with `%num%` new indirects LSPs

Message Parameters

Name	Type
net	IPN
mask	uInt
num	uInt

ospf.spf.DelRt

Description

Used when ospf is deleting one route from kernel routing table. %ip%: the IP address of the destination. %mask%: the IP mask of the destination. %gw%: the next hope address of the route to the destination. %cost%: the cost to the destination. %area%: the associated area of the destination route. %proto%: the route type, it could be intra-area, inter-area, extern-1 or extern-2.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Deleting route `%ip%`/`%mask%` gw `%gw%` cost `%cost%` area `%area%` `%proto%`.

Message Parameters

Name	Type
ip	IPN
mask	IPmaskvalN
gw	IP
cost	uInt
area	IP
proto	String

ospf.spf.DelRtErr

Description

Used when deletion fails while deleting one route from kernel route table. %ip%: the IP address of the destination. %mask%: the IP mask of the destination. %gw%: the next hope address of the route to the destination. %cost%: the cost to the destination. %area%: the associated area of the destination route. %proto%: the route type, it could be intra-area, inter-area, extern-1 or extern-2.

Remedy

Disable/enable ospf for correcting route table.

Severity

Debug-Verbose

Message Text

Delete failed for dst `%ip%`/`%mask%` gw `%gw%` cost `%cost%` area `%area%` `%proto%`.

Message Parameters

Name	Type
ip	IPN
mask	IPmaskvalN
gw	IPN
cost	uInt
area	IP
proto	String

ospf.spf.AddRtErr

Description

Used when addition fails while adding one route to kernel route table. %ip%: the IP address of the destination. %mask%: the IP mask of the destination. %gw%: the next hope address of the route to the destination. %cost%: the cost to the destination. %area%: the associated area of the destination route. %proto%: the route type, it could be intra-area, inter-area, extern-1 or extern-2.

Remedy

Disable/enable ospf for correcting routing table.

Severity

Debug-Verbose

Message Text

Add failed dst `%ip%`/`%mask%` gw `%gw%` cost `%cost%` area `%area%` `%proto%`.

Message Parameters

Name	Type
ip	IPN
mask	IPmaskvalN
gw	IPN
cost	uInt
area	IP
proto	String

ospf.spf.IgnAddRt

Description

Used when ospf ignores adding one route to kernel routing table. %ip%: the IP address of the destination. %mask%: the IP mask of the destination. %gw%: the next hope address of the route to the destination. %cost%: the cost to the destination. %area%: the associated area of the destination route. %proto%: the route type, it could be intra-area, inter-area, extern-1 or extern-2.

Remedy

None. This is for debugging.

Severity

Debug-Verbose

Message Text

Ignore adding dst `%ip%`/`%mask%` gw `%gw%` cost `%cost%` area `%area%` `%proto%`.

Message Parameters

Name	Type
ip	IPN
mask	IPmaskvalN
gw	IPN
cost	uInt
area	IPN
proto	String

ospf.spf.IgnDelRt

Description

Used when ospf ignores deleting one route from kernel routing table. %ip%: the IP address of the destination. %mask%: the IP mask of the destination. %gw%: the next hope address of the route to the destination. %cost%: the cost to the destination. %area%: the associated area of the destination route. %proto%: the route type, it could be intra-area, inter-area, extern-1 or extern-2.

Remedy

None. This is for debugging.

Severity

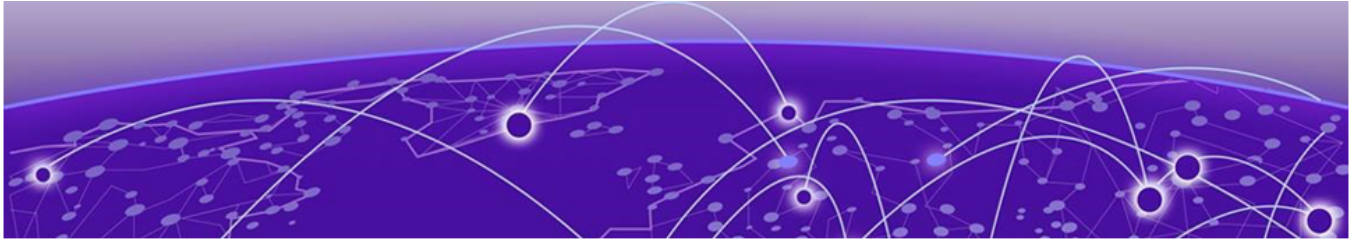
Debug-Verbose

Message Text

Ignore deleting dst `%ip%`/`%mask%` gw `%gw%` cost `%cost%` area `%area%` `%proto%`.

Message Parameters

Name	Type
ip	IPN
mask	IPmaskvalN
gw	IPN
cost	uInt
area	IPN
proto	String



OSPFv3 Messages

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OSPFv3.SendToProtoThreadFail

Description

This event occurs whenever inter-thread message send failed. vrId: VR ID object: Object to be sent

Remedy

This is a rare internal condition needing technical assistance. It should be fixed by reset running OSPFv3 settings with CLI commands "disable ospfv3/enable ospfv3", if not, try restart the OSPFv3 process with CLI command "restart process ospfv3", or reboot the system. If the event still occurs after reboot, contact technical support with the following information: "show tech" command output."

Severity

Error

Message Text

VR `%vrId%`: Failed to send `%object%` to protocol thread.

Message Parameters

Name	Type
vrId	VRID
object	String

OSPFv3.AllocMemFail

Description

This event occurs whenever memory allocation for the specific object type failed. vrId: VR ID object: Object to be allocate

Remedy

This is internal error, try to free some memory, restart process or reboot switch might be required.

Severity

Error

Message Text

VR `%vrId%`: Failed to allocate memory for `%object%`.

Message Parameters

Name	Type
vrId	VRID
object	String

OSPFv3.EnblProtoRtrIdFail

Description

This event occurs whenever enable OSPFv3 protocol failed because there is neither an IPv4 interface address nor a configured router ID. vrId: VR ID

Remedy

Try to enable OSPFv3 after configure at lease one IPv4 interface address, or configure a router ID.

Severity

Error

Message Text

VR `%vrId%`: Failed to enable OSPFv3, there is neither an IPv4 interface address nor a configured router ID.

Message Parameters

Name	Type
vrId	VRID

OSPFv3.UpdtLcnsDone

Description

This event occurs whenever license information is updated. vrId: VRID level: License level

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

VR `%vrId%`: License updated to `%level%`.

Message Parameters

Name	Type
vrId	VRID
level	String

OSPFv3.SemWait

Description

This event occurs whenever wait for specific semaphore starts. vrId: VR ID name: Semaphore name

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

VR `%vrId%`: Wait for `%name%` semaphore.

Message Parameters

Name	Type
vrId	VRID
name	String

OSPFv3.SemWaitDone

Description

This event occurs whenever specific semaphore is obtained. vrId: VR ID name: Semaphore name

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

VR `%vrId%`: Got `%name%` semaphore.

Message Parameters

Name	Type
vrId	VRID
name	String

OSPFv3.EnterGrcflRstrt

Description

This event occurs whenever graceful restart is entered. vrId: VR ID type: Graceful restart type, planned or unplanned

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

VR `%vrId%`: Enter `%type%` graceful restart.

Message Parameters

Name	Type
vrId	VRID
type	String

OSPFv3.ExitGrcflRstrt

Description

This event occurs whenever graceful restart is exited. vrId: VR ID type: Graceful restart type, planned or unplanned

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

VR `%vrId%`: Exit `%type%` graceful restart.

Message Parameters

Name	Type
vrId	VRID
type	String

OSPFv3.RfrshPlcyFail

Description

This event occurs whenever specific policy is no longer used because policy refresh failed. vrId: VR ID type: policy type name: policy name

Remedy

Please check policy syntax to make sure it is valid.

Severity

Error

Message Text

VR `%vrId%`: Refresh failed, stop using `%type%` policy `%name%`.

Message Parameters

Name	Type
vrId	VRID
type	String
name	String

OSPFv3.RfrshPlcyDone

Description

This event occurs whenever specific policy is refreshed. vrId: VR ID type: policy type name: policy name

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

VR `%vrId%`: Refresh `%type%` policy `%name%`.

Message Parameters

Name	Type
vrId	VRID
type	String
name	String

OSPFv3.BindPlcy

Description

This event occurs whenever specific policy is bind. vrId: VR ID type: policy type name: policy name

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

VR `%vrId%`: Bind `%type%` policy `%name%`.

Message Parameters

Name	Type
vrId	VRID
type	String
name	String

OSPFv3.MoveIfToAreaFmArea

Description

This event occurs whenever an existing OSPFv3 interface is moved from one area to another area with CLI command: configure ospf vlan <vlan-name> area <area-id>. Since with this configuration change the interface is deleted from the old area and added to the new area, the associated adjacencies will be lost in the old area. vrId: VR ID vlan: VLAN name area_new: the new area ID area_old: the old area ID

Remedy

No action required - Informational message only.

Severity

Info

Message Text

VR `%vrId%`: Interface `%vlan%` was moved to area `%area_new%` from area `%area_old%` which caused the associated adjacencies to be lost.

Message Parameters

Name	Type
vrId	VRID
vlan	VLAN

Name	Type
area_new	IPN
area_old	IPN

OSPFv3.MaxIfRtxIntvExcd

Description

The current OSPFv3 implementation supports a maximum retransmit interval of 1800. A saved configuration with a higher value was loaded. The value applied will be 1800 to stay within limits.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

VR `%vrId%`: Maximum retransmit interval of 1800 exceeded on interface `%vlan%`. Setting value to 1800.

Message Parameters

Name	Type
vrId	VRID
vlan	VLAN

OSPFv3.MaxVlfRtxIntvExcd

Description

The current OSPFv3 implementation supports a maximum retransmit interval of 1800. A saved configuration with a higher value was loaded. The value applied will be 1800 to stay within limits.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

VR `%vrId%`: Maximum retransmit interval of 1800 exceeded on virtual interface with neighbor `%nbr%`, area `%area%`. Setting value to 1800.

Message Parameters

Name	Type
vrId	VRID
nbr	IPN
area	IPN

OSPFv3.MaxIfTrnstDlayExcd

Description

The current OSPFv3 implementation supports a maximum transit delay of 1800. A saved configuration with a higher value was loaded. The value applied will be 1800 to stay within limits.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

VR `%vrId%`: Maximum transit delay of 1800 exceeded on interface `%vlan%`. Setting value to 1800.

Message Parameters

Name	Type
vrId	VRID
vlan	VLAN

OSPFv3.MaxVlfTrnstDlayExcd

Description

The current OSPFv3 implementation supports a maximum transit delay of 1800. A saved configuration with a higher value was loaded. The value applied will be 1800 to stay within limits.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

VR `%vrId%`: Maximum transit delay of 1800 exceeded on virtual interface with neighbor `%nbr%`, area `%area%`. Setting value to 1800.

Message Parameters

Name	Type
vrId	VRID
nbr	IPN
area	IPN

OSPFv3.RxPktAuthFail

Description

This event occurs when authentication fails for a packet received on an interface. Adjacency will go down on the interface. vrid: OSPFv3 instance interface: Interface index

Remedy

There was a mismatch in authentication type or key. Check authentication configuration on interface. If you wish to re-establish adjacency without authentication, then remove authentication configuration from both sides of the link, delete interface from OSPFv3 and add it back.

Severity

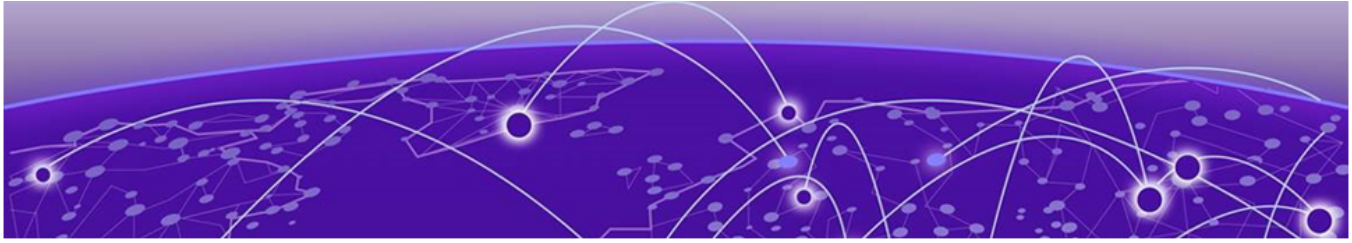
Warning

Message Text

`%vrid%`: Authentication failed for packet received on interface = `%interface%`.

Message Parameters

Name	Type
vrid	String
interface	String



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OSPFv3.NbrMgr.CreatNbrRsrcFail on page 3751
OSPFv3.NbrMgr.CreatOK on page 3752
OSPFv3.NbrMgr.DstryOK on page 3752
OSPFv3.NbrMgr.CreatIfCBOK on page 3753
OSPFv3.NbrMgr.DstryIfCBOK on page 3753
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OSPFv3.NbrMgr.IgnPktCalcAuthRsrcFail on page 3774
OSPFv3.NbrMgr.IgnPktUnexpAuthType on page 3775
OSPFv3.NbrMgr.IgnPktIncrctPwd on page 3775
OSPFv3.NbrMgr.IgnPktIncrctCksum on page 3776
OSPFv3.NbrMgr.IgnPktIncrctSeq on page 3777
OSPFv3.NbrMgr.IgnPktIncrctDigest on page 3778
OSPFv3.NbrMgr.IgnHelloSmall on page 3778
OSPFv3.NbrMgr.IgnPktUnexpType on page 3779
OSPFv3.NbrMgr.IgnPktSmall on page 3780
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OSPFv3.NbrMgr.CloseSockFail on page 3781
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OSPFv3.NbrMgr.DropHelloDiffAreaType on page 3783
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OSPFv3.NbrMgr.DropPktRsvdRtrId on page 3786
OSPFv3.NbrMgr.DtectIntIncnsist on page 3786
OSPFv3.NbrMgr.AllocNewNbrSigFail on page 3787
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OSPFv3.NbrMgr.IgnPktUnexpRtrId on page 3788
OSPFv3.NbrMgr.IgnPktVlfNoNbr on page 3789
OSPFv3.NbrMgr.IgnPktUnsuprtHdrLen on page 3790
OSPFv3.NbrMgr.IgnPktUnkVlf on page 3790
OSPFv3.NbrMgr.IgnPktSuprsIf on page 3791
OSPFv3.NbrMgr.ResetIfCB on page 3792
OSPFv3.NbrMgr.DtectCryptSeqErr on page 3792
OSPFv3.NbrMgr.IgnPktUnexpP2PSrcIP on page 3793
OSPFv3.NbrMgr.IgnUnexpSigFmPM on page 3794
OSPFv3.NbrMgr.RepEntityMIBToBkupFail on page 3794
OSPFv3.NbrMgr.BFDStubCommFail on page 3795
OSPFv3.NbrMgr.RecvBFDIndctSessUp on page 3796
OSPFv3.NbrMgr.RecvBFDIndctSessDown on page 3796
OSPFv3.NbrMgr.DropPktFmOldBFDStub on page 3797
OSPFv3.NbrMgr.IgnUnexpSigFmBFD on page 3798
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OSPFv3.NbrMgr.SuprsIfAuthFailTrap on page 3807
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OSPFv3.NbrMgr.InitRsrcFail

Description

OSPF NM creation failed due to lack of memory. OSPF NM failed to start.

Remedy

Retry OSPF NM initialization. Investigate the shortage of memory on this system. Make more memory available on this system.

Severity

Error

Message Text

`%p1%` initialization failed because of lack of memory.

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.InitLibRsrcFail

Description

OSPF NM creation failed because a required software library failed to initialize. This may be due to lack of memory. OSPF NM failed to start.

Remedy

Retry OSFP NM initialization. Investigate whether there was a shortage of memory on this system and, if so, make more memory available. If this does not resolve the problem, contact support with diagnostics.

Severity

Error

Message Text

`%p1%` initialization failed due to lask of system resource.

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.CreatIfRsrcFail

Description

OSPF NM interface creation failed due to lack of memory. OSPF NM interface creation failed. OSPF routing was not activated on this interface. The local routing table may not be accurate, and there may be routing problems.

Remedy

Try deactivating and reactivating the OSPF interface. Investigate the shortage of memory on this system. Make more memory available on this system.

Severity

Error

Message Text

`%p1% %p2% %p3%` creation failed due to lack of system resource.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.CreatNbrRsrcFail

Description

OSPF NM neighbor creation failed due to lack of memory. OSPF NM neighbor creation failed. The local OSPF router cannot exchange routing information with this neighbor. The local routing table may not be accurate, and there may be routing problems.

Remedy

If the neighbor is configured through the MIB, try deactivating and reactivating the MIB. If the neighbor is discovered, the protocol will automatically try to create the neighbor again. If this does not resolve the problem, investigate the shortage of memory on this system. Make more memory available on this system.

Severity

Error

Message Text

`%p1% %p2% %p3% %p4%` creation failed due to lack of system resource.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.NbrMgr.CreatOK

Description

OSPF NM created.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` created.

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.DstryOK

Description

OSPF NM destroyed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` destroyed.

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.CreatIfCBOK

Description

OSPF Interface CB created.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1% %p2% %p3%` CB created.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.DstryIfCBOK

Description

OSPF Interface CB destroyed.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1% %p2% %p3%` CB destroyed.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.CreatNbrCBOK

Description

OSPF neighbor CB created.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1% %p2% %p3% %p4%` CB created.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.NbrMgr.DstryNbrCBOK

Description

OSPF neighbor CB destroyed.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1% %p2% %p3% %p4%` CB destroyed.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.NbrMgr.McastSockNotOpen

Description

No multicast socket opened for the OSPF Interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1% %p2% %p3%` No multicast socket opened.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.PostNMICtrlBuf

Description

Buffer post for NMI control buffer pool.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1% %p2% %p3%` Buffer post made for NMI control buffer pool. Lost contact with a neighbor (Router ID = `%p4%`)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.NbrMgr.PostSockBuf

Description

Buffer post for sockets buffer pool.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` Buffer post made for sockets buffer pool. OSPF Interface = `%p2%` Physical interface = `%p3%` Multicast group = `%p4%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	uInt8

OSPFv3.NbrMgr.ProcUpdtIfSig

Description

A Neighbor Manager update interface signal has been processed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` `%p2%` `%p3%` A Neighbor Manager update interface signal has been processed. Is DR or BDR: `%p4%` Is suppressed: `%p5%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	sInt

Name	Type
p5	sInt
p6	sInt
p7	sInt

OSPFv3.NbrMgr.McastSockFSMInfo

Description

Multicast socket FSM input, state and action details.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` Multicast socket FSM input, state and action details. Physical interface = `%p2%` Multicast group = `%p3%` FSM input = `%p4%` (`%p5%`) FSM old state = `%p6%` (`%p7%`) FSM new state = `%p8%` (`%p9%`) FSM action = `%p10%`

Message Parameters

Name	Type
p1	String
p2	String
p3	uInt8
p4	String
p5	uInt8
p6	String
p7	uInt8
p8	String
p9	uInt8
p10	uInt8

OSPFv3.NbrMgr.IfSockFSMInfo

Description

OSPF Interface socket FSM input, state and action details.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` `%p3%` OSPF Interface socket FSM input, state and action details. FSM input = `%p4%` (`%p5%`) FSM old state = `%p6%` (`%p7%`) FSM new state = `%p8%` (`%p9%`) FSM action = `%p10%` (`%p11%`)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	uInt8
p6	String
p7	uInt8
p8	String
p9	uInt8
p10	String
p11	uInt8

OSPFv3.NbrMgr.FreeHelloOld

Description

Hello packet freed because PM has sent an updated version.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1% %p2% %p3%` Hello packet freed due to later one sent by PM.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.TxNoHelloPollIntvNotRch

Description

Hello packet not sent to NBMA neighbor because poll interval not reached.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1% %p2% %p3% %p4%` Poll interval not reached for NBMA nbr, so no Hello sent. Time since last Hello was sent to this neighbor (ms) = `%p5%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

Name	Type
p4	String
p5	sInt32

OSPFv3.NbrMgr.XferTxPktToPMFail

Description

Buffer transfer failed on incoming OSPF packet for PM.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` Failed to transfer OSPF packet to NM-to-PM incoming packet pool. Physical interface index = `%p2%` Multicast group = `%p3%` Packet type = `%p4%` Source address = `%p5%`

Message Parameters

Name	Type
p1	String
p2	xInt32
p3	uInt8
p4	sInt32
p5	VarFmtByteArray

OSPFv3.NbrMgr.PktBufNotRtrnNbrCBFree

Description

Packet buffer not returned to PM because the related neighbor CB has been freed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` Packet buffer not returned to PM as related nbr CB has been freed. Packet type = `%p2%` Source address = `%p3%` Handle of the now-freed neighbor control block = `%p4%`

Message Parameters

Name	Type
p1	String
p2	sInt32
p3	VarFmtByteArray
p4	uInt32

OSPFv3.NbrMgr.TxHello

Description

NM has sent a Hello packet.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` NM has sent a Hello packet. Sending interface index = `%p2%`. Router ID of target neighbor (null string if sent per interface) = `%p3%`. Destination IP address = `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.NbrMgr.RxHello

Description

NM has received a Hello packet.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` NM has received a Hello packet. Receiving interface index = `%p2%`. Router ID of sending neighbor = `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.IgnSockErr

Description

NM received a socket error. Possible transient problems, such as - loss of contact with a neighbor - a delay in updating the Link State database.

Remedy

Check the network connection is correctly configured and working.

Severity

Debug-Verbose

Message Text

`%p1%` NM ignored a reported socket error with code `%p2%`. Diagnostic information for support: Application socket handle = `%p3%` Stub socket handle = `%p4%`

Message Parameters

Name	Type
p1	String
p2	sInt32
p3	uInt32
p4	uInt32

OSPFv3.NbrMgr.JoinStatusChg

Description

OSPF NM join status changed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` join status changed. NMI join is `%p2%` SCK join is `%p3%` BFD join is `%p4%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.NbrMgr.EntityStatusChg

Description

OSPF NM Entity status has changed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` was `%p2%` and is now `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.DropPktFmOldIPSockStub

Description

NM dropped a packet which appeared to come from an old instance of the IP sockets stub. Possible transient problems, such as - loss of contact with a neighbor - a delay in updating the Link State database.

Remedy

If many of these logs are seen, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` NM dropped packet from old IP sockets instance. Diagnostic information for support: Receiver handle = `%p2%` Sender's main PID = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

OSPFv3.NbrMgr.DropPktNoMatchIf

Description

An OSPFv3 packet with a link local or multicast destination address was received. It was attempted to match it to an interface (rather than a virtual interface or sham link). No interface could be found with a matching interface index and instance ID. The packet was dropped.

Remedy

If the problem persists and this log is unexpected check configuration. In particular check that the instance ID is correct on the specified interface.

Severity

Info

Message Text

`%p1%%p3%` dropped a link local or multicast packet on interface with instance ID `%p4%` as no i/f was configured with that i/f index and instance. This log may be expected if multiple OSPF instances have been configured on this i/f. Diagnostic information for support: Packet data = `%p2%`

Message Parameters

Name	Type
p1	String
p2	HexPktByteArray
p3	String
p4	uInt8

OSPFv3.NbrMgr.PMCommFail

Description

OSPF NM communications with PM failed. OSPF NM cannot communicate with PM. NM handles this condition by deactivating. OSPF failed to initialize or OSPF failed. This condition is self-clearing. NM recovers when NM is able to communicate with PM again.

Remedy

Wait a few seconds and see whether OSPF recovers. Note that this condition can occur in normal operation if NM is activated before PM or deactivated after PM. If OSPF does not recover from the failure, then gather diagnostics and contact support.

Severity

Info

Message Text

`%p1%` communications with PM failed.

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.IgnPktIncrctProto

Description

Received packet's protocol field was incorrect. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate. reach some recipients.

Remedy

Contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Received packet's protocol field `%p2%` was incorrect. Diagnostic information for support: Expected protocol ID = `%p3%` Packet data = `%p4%`

Message Parameters

Name	Type
p1	String
p2	xInt8
p3	xInt8
p4	HexPktByteArray

OSPFv3.NbrMgr.IgnPktIncrctVer

Description

Received packet's OSPF version number was incorrect. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Received packet's OSPF version number `%p2%` was incorrect. Diagnostic information for support: Packet data = `%p3%`

Message Parameters

Name	Type
p1	String
p2	xInt8
p3	HexPktByteArray

OSPFv3.NbrMgr.IgnPktIncrctSrcIP

Description

Received packet's source IP address does not match address of receiving interface. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device or the network. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Received packet's source IP address was incorrect. Source IP address = `%p2%` Receiving interface's address = `%p3%` Diagnostic information for support: Packet data = `%p4%`

Message Parameters

Name	Type
p1	String
p2	VarFmtByteArray
p3	VarFmtByteArray
p4	HexPktByteArray

OSPFv3.NbrMgr.IgnPktInvAreaId

Description

Packet received with invalid area ID. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device or the network. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Packet received with invalid area ID `%p2%` from router `%p6%`. Diagnostic information for support: Packet's area ID is not the area ID of the interface it has arrived on or that of the backbone. Area ID of interface = `%p3%` Area ID of backbone = `%p4%` Packet data = `%p5%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	DecByteArray
p4	DecByteArray
p5	HexPktByteArray
p6	DecByteArray

OSPFv3.NbrMgr.IgnNonHelloNoActvNbr

Description

Non-Hello packet could not be matched to an active neighbor. This packet was ignored. The Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device or the network. If no problem is apparent, contact support with details of the problem.

Severity

Info

Message Text

`%p1%` Non-Hello packet could not be matched to an active neighbor. Packet data = `%p2%`

Message Parameters

Name	Type
p1	String
p2	HexPktByteArray

OSPFv3.NbrMgr.IgnPktIncrctLen

Description

Received packet's packet length was incorrect. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device or the network. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Received packet's packet length `%p2%` was incorrect. Packet data = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt16
p3	HexPktByteArray

OSPFv3.NbrMgr.CreatSockFail

Description

NM received an error code from the socket stub while trying to create the socket. The OSPF stack fails to start.

Remedy

Check the network connection is correctly configured and working. If this does not resolve the problem, contact support with details of the problem.

Severity

Error

Message Text

`%p1%` The socket creation failed. IP address = `%p2%` IP port = `%p3%` Error code = `%p4%`

Message Parameters

Name	Type
p1	String
p2	VarFmtByteArray
p3	uInt16
p4	sInt32

OSPFv3.NbrMgr.SockStubCommFail

Description

OSPF NM communications with the sockets stub failed. OSPF NM cannot communicate with the sockets stub. NM handles this condition by deactivating. OSPF failed to initialize or OSPF failed. This condition is self-clearing. NM recovers when when NM is able to communicate with the sockets stub again.

Remedy

Wait a few seconds and see whether OSPF recovers. Investigate why NM cannot communicate with the sockets stub. Check that the sockets stub is present and active. If OSPF does not recover from the failure, then gather diagnostics and contact support.

Severity

Error

Message Text

`%p1%` communications with the sockets stub failed.

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.DtectNMSwErr

Description

OSPF NM detected a software error in NM logic. Undefined. This condition is unexpected.

Remedy

Gather diagnostics and contact support.

Severity

Error

Message Text

`%p1%` detected a software error in NM logic. Diagnostic information for support: FSM action = `%p2%` FSM input = `%p3%` FSM state = `%p4%`

Message Parameters

Name	Type
p1	String
p2	uInt8
p3	String
p4	String

OSPFv3.NbrMgr.IgnPktInvSrcIP

Description

Source address of an incoming packet was invalid. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device (particularly that of its interfaces) or the network. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Source address of an incoming packet was zero. Source address = `%p2%` Packet data = `%p3%`

Message Parameters

Name	Type
p1	String
p2	VarFmtByteArray
p3	HexPktByteArray

OSPFv3.NbrMgr.IgnPktCalcAuthRsrcFail

Description

Resource failure meant that authentication fields could not be calculated. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Give more memory to OSPF.

Severity

Warning

Message Text

`%p1%` Authentication fields could not be calculated. Packet data = `%p2%`

Message Parameters

Name	Type
p1	String
p2	HexPktByteArray

OSPFv3.NbrMgr.IgnPktUnexpAuthType

Description

Packet received with unexpected authentication type. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device. If no problem is apparent, contact support with details of the problem.

Severity

Info

Message Text

`%p1%` Packet received with unexpected authentication type `%p2%`. Expected authentication type = `%p3%`. Packet data = `%p4%`

Message Parameters

Name	Type
p1	String
p2	uInt16
p3	sInt32
p4	HexPktByteArray

OSPFv3.NbrMgr.IgnPktIncrctPwd

Description

Packet received with incorrect simple password. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Packet received with incorrect simple password `%p2%`. Expected simple password = `%p3%`. Packet data = `%p4%`

Message Parameters

Name	Type
p1	String
p2	HexByteArray
p3	HexByteArray
p4	HexPktByteArray

OSPFv3.NbrMgr.IgnPktIncrctCksum

Description

A packet has been received with an incorrect OSPF checksum. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Contact support for advice.

Severity

Warning

Message Text

`%p1%` Packet received with incorrect OSPF checksum `%p2%`. Packet data = `%p3%`

Message Parameters

Name	Type
p1	String
p2	xInt16
p3	HexPktByteArray

OSPFv3.NbrMgr.IgnPktIncrctSeq

Description

Counterfeit packet received - cryptographic sequence number incorrect. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Counterfeit packet received. Received cryptographic sequence number = `%p2%`. Previous cryptographic sequence number = `%p3%`. Packet data = `%p4%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32
p4	HexPktByteArray

OSPFv3.NbrMgr.IgnPktIncrctDigest

Description

Packet received with incorrect MD5 or HMAC-SHA message digest. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Packet received with incorrect MD5 or HMAC-SHA message digest `%p2%` MD5 or HMAC-SHA message digest should be `%p3%` Packet data = `%p4%`

Message Parameters

Name	Type
p1	String
p2	HexByteArray
p3	HexByteArray
p4	HexPktByteArray

OSPFv3.NbrMgr.IgnHelloSmall

Description

Hello packet received was too small. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router.

Remedy

Investigate the behavior of the sending device. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Hello packet received was too small. Minimum packet length = `%p2%` Received packet length = `%p3%` Packet data = `%p4%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32
p4	HexPktByteArray

OSPFv3.NbrMgr.IgnPktUnexpType

Description

Packet received with unexpected packet type. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the behavior of the sending device. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Packet received with unexpected packet type `%p2%`. Packet data = `%p3%`

Message Parameters

Name	Type
p1	String
p2	xInt8
p3	HexPktByteArray

OSPFv3.NbrMgr.IgnPktSmall

Description

Packet received was too small. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the behavior of the sending device. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Packet received was too small. Packet data = `%p2%`

Message Parameters

Name	Type
p1	String
p2	HexPktByteArray

OSPFv3.NbrMgr.SetSockOptIPMcastFail

Description

The IP_MULITCAST_LOOP socket option could not be set. Socket processing may not be as efficient as OSPF will receive copies of the multicast packets it sent. However, OSPF continues to function normally as the extra packets will simply be silently discarded.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` The IP_MULTICAST_LOOP socket option could not be set.

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.CloseSockFail

Description

A socket close attempt failed. There may be no immediate effect, but it is possible that some resources have not been freed, which may result in a failure to open a socket at some later time.

Remedy

Examine other diagnostics (including those of the IP stack) for a reason for the failure. If this does not resolve the problem, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Failed to close socket. Error code = `%p2%`

Message Parameters

Name	Type
p1	String
p2	sInt32

OSPFv3.NbrMgr.DropHelloDiffHelloIntv

Description

Invalid Hello packet received - mismatched hello intervals Packet dropped. This leads to adjacency with originating router not being formed.

Remedy

Check configuration of routers. If this does not solve problem, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Hello packet with mismatched hello interval received from router `%p2%`. My Hello Interval = `%p3%` Neighboring Hello Interval = `%p4%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	sInt32
p4	sInt16

OSPFv3.NbrMgr.DropHelloDiffDeadIntv

Description

Invalid Hello packet received - mismatched dead intervals Packet dropped. This leads to adjacency with originating router not being formed.

Remedy

Check configuration of routers. If this does not solve problem, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Hello packet with mismatched dead interval received from router `%p2%`. My Dead Interval = `%p3%` Neighboring Dead Interval = `%p4%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	sInt32
p4	sInt32

OSPFv3.NbrMgr.DropHelloDiffNetMsk

Description

Invalid Hello packet received - mismatched network masks Packet dropped. This leads to adjacency with originating router not being formed.

Remedy

Check configuration of routers. If this does not solve problem, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Hello packet with mismatched network mask received from router `%p2%`. My Network Mask = `%p3%` Neighboring Network Mask = `%p4%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	DecByteArray
p4	DecByteArray

OSPFv3.NbrMgr.DropHelloDiffAreaType

Description

Invalid Hello packet received - Disagreement on area type. Packet dropped. This leads to adjacency with originating router not being formed.

Remedy

Check configuration of routers. If this does not solve problem, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Hello packet received from router `%p2%` which disagrees on area type. My area type is Standard(`%p3%`) Stub(`%p4%`) NSSA (`%p5%`) Neighboring Routers Area Type is Standard(`%p6%`) Stub(`%p7%`) NSSA (`%p8%`)

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	sInt16
p4	sInt16
p5	sInt16
p6	sInt16
p7	sInt16
p8	sInt16

OSPFv3.NbrMgr.IgnPktIncrctAuthLen

Description

Packet received with incorrect MD5 or HMAC-SHA authentication data length. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Investigate the configuration of the sending device. If no problem is apparent, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Packet received with invalid MD5 or HMAC-SHA authentication data length. Diagnostic information for support: MD5 or HMAC-SHA authentication data length should be `%p2%` Packet authentication data length = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt8
p3	uInt8

OSPFv3.NbrMgr.AuthPktFailInvKey

Description

Failure to get an authentication key. Packet cannot be authenticated. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Define an authentication key, or investigate why the defined authentication key has is invalid. If this does not resolve the problem, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Packet cannot be authenticated. Diagnostic information for support: Packet data = `%p2%` Error code (from A0AUTH_GET_KEY) = `%p3%`

Message Parameters

Name	Type
p1	String
p2	HexPktByteArray
p3	uInt8

OSPFv3.NbrMgr.DropPktRsvdRtrId

Description

Received packet with router ID 0.0.0.0. Packet dropped.

Remedy

Check configuration, particularly ensuring that there are no other routers with router ID 0.0.0.0. If this does not solve problem, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` Received packet with reserved router ID `%p2%` Packet data = `%p3%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	HexPktByteArray

OSPFv3.NbrMgr.DtectIntIncnsist

Description

The OSPF NM has detected an internal inconsistency. The Neighbor Manager instance terminates.

Remedy

This represents an internal logic error. Contact OSPF customer support with details of the problem.

Severity

Error

Message Text

`%p1%` has detected an internal inconsistency. Inconsistency code = `%p1%`

Message Parameters

Name	Type
p1	String
p2	xInt32

OSPFv3.NbrMgr.AllocNewNbrSigFail

Description

Failed to allocate a buffer for a QONM_RCVD_HELLO_FRM_NEW_NBR signal. NM relies on the OSPF underlying protocols to retry

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` `%p2%` Failed to allocate buffer for a New Neighbor signal. Neighbor's Router ID = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.ActvFail

Description

OSPF has failed to activate. OSPF needs to be restarted.

Remedy

Check diagnostics to try to determine the cause of the failure. In particular, check if there is sufficient memory available. If this does not resolve the problem, contact support with details of the problem.

Severity

Error

Message Text

`%p1%` Failed to activate. Router ID = `%p2%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray

OSPFv3.NbrMgr.IgnPktUnexpRtrId

Description

OSPF has received a packet on a virtual or P2P link whose router ID does not match that configured. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Check the configuration of the network. There should be only one router at the other end of a P2P or virtual interface.

Severity

Warning

Message Text

`%p1%` `%p2%` `%p3%` `%p4%` Unexpected router id (`%p5%`) received from neighbor.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	String

OSPFv3.NbrMgr.IgnPktVlfNoNbr

Description

OSPF has received a packet and matched it to a virtual interface but no neighbor CB was found. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

This log is expected while a virtual interface is being set up, because the virtual interface and the neighbor cannot be configured at exactly the same time. If this log occurs at at any other time, check PM configuration. If that does not solve it, contact support with details of the problem.

Severity

Debug-Summary

Message Text

`%p1%` dropped a packet received on virtual interface `%p2%` as no neighbor was configured.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.NbrMgr.IgnPktUnsuprtHdrLen

Description

OSPF has received a packet whose IP header is not 20 bytes long. This could be because there are options specified in the IP header, these are not supported by OSPF. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Reconfigure the sending router with respect to building the IP header, e.g. IP header options.

Severity

Info

Message Text

`%p1%` Packet's IP header is not 20 bytes long. IP header length: `%p2%` Packet data = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt8
p3	HexPktByteArray

OSPFv3.NbrMgr.IgnPktUnkVlf

Description

Packet received on unknown virtual interface. This is probably a transient problem when network interfaces are deactivated while a virtual interface is active. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

No action is required unless the problem persists, in which case check the configuration of routers, especially for network interfaces being deactivated.

Severity

Warning

Message Text

`%p1%` dropped a packet with `%p4%` received on an unknown virtual interface. Packet type = `%p2%` Packet data = `%p3%`

Message Parameters

Name	Type
p1	String
p2	xInt8
p3	HexPktByteArray
p4	String

OSPFv3.NbrMgr.IgnPktSuprsIf

Description

OSPF packet received on suppressed interface was ignored. This packet was ignored. OSPF is unable to form any adjacencies using this interface.

Remedy

To start accepting packets on this interface, deactivate any other interfaces to this network.

Severity

Debug-Summary

Message Text

`%p1%` OSPF packet received on suppressed interface was ignored. Receiving interface = `%p2%` IP addr of receiving interface = `%p3%` Instance ID = `%p4%` Packet type = `%p5%` Packet data = `%p6%`

Message Parameters

Name	Type
p1	String
p2	String

Name	Type
p3	String
p4	uInt8
p5	xInt8
p6	HexPktByteArray

OSPFv3.NbrMgr.ResetIfCB

Description

OSPF Interface CB reset.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1% %p2% %p3%` Interface CB reset.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.DtectCryptSeqErr

Description

Internal logic error. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Contact support for advice.

Severity

Warning

Message Text

`%p1%` Internal logic error for cryptographic sequence number. Diagnostic information for support: NM has received a cryptographic sequence number from PM that is less than its current value. Current cryptographic sequence number = `%p2%` New cryptographic sequence number = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

OSPFv3.NbrMgr.IgnPktUnexpP2PSrcIP

Description

OSPF has received a packet on a P2P link whose source IP address does not match that configured. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Check the configuration of the network. There should be only one router at the other end of a P2P interface.

Severity

Warning

Message Text

`%p1% %p2% %p3% %p4%` Unexpected source IP address (`%p5%`) received from neighbor.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	String

OSPFv3.NbrMgr.IgnUnexpSigFmPM

Description

OSPF NM has received an unexpected signal from OSPF PM. The signal was ignored.

Remedy

This error may be logged during normal operation if OSPF NM has recently been deactivated.

Severity

Debug-Summary

Message Text

`%p1%` Ignored NMI signal `%p2%` because NMI join is in state `%p3%`.

Message Parameters

Name	Type
p1	String
p2	xInt32
p3	String

OSPFv3.NbrMgr.RepEntityMIBToBkupFail

Description

Replication of the top-level NM entity MIB to the backup has not occurred because the primary is yet to be replicated. This will only happen in race conditions where the backup entity is ready for replication before the primary has received the initial MIB configuration. Catch-up replication is not possible for top-level entity MIBs.

Remedy

No action needs to be taken.

Severity

Debug-Summary

Message Text

`%p1%` Could not replicate entity MIB to backup - primary not yet replicated.

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.BFDStubCommFail

Description

OSPF NM communications with the BFD stub failed. OSPF NM cannot communicate with the BFD stub. NM handles this condition by deactivating. OSPF failed to initialize. This condition is self-clearing. NM recovers when when NM is able to communicate with the BFD stub again.

Remedy

Wait a few seconds and see whether OSPF recovers. Investigate why NM cannot communicate with the BFD stub. Check that the BFD stub is present and active. If a BFD stub is not expected, confirm that a join to one is not configured in the OSPF NM Entity MIB. If OSPF does not recover from the failure, then gather diagnostics and contact support.

Severity

Error

Message Text

`%p1%` communications with the BFD stub failed.

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.RecvBFDIndctSessUp

Description

A SESSION UP indication was received from the BFD stub.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` A SESSION UP indication was received from the BFD stub. Local Interface index = `%p2%` Neighbor IP Address = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.RecvBFDIndctSessDown

Description

A SESSION DOWN indication was received from the BFD stub.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` A SESSION DOWN indication was received from the BFD stub. Local Interface index = `%p2%` Neighbor IP Address = `%p3%` Session DOWN diagnostic code = `%p4%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	xInt8

OSPFv3.NbrMgr.DropPktFmOldBFDStub

Description

NM dropped a packet which appeared to come from an old instance of the BFD stub. Possible transient problems. If many of these logs are seen, then there may be more severe errors such as a failure to use BFD sessions with a neighbor.

Remedy

If many of these logs are seen, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` NM dropped packet from old BFD stub instance. Diagnostic information for support: Receiver handle = `%p2%` Sender's main PID = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

OSPFv3.NbrMgr.IgnUnexpSigFmBFD

Description

OSPF NM has received an unexpected signal from the BFD stub. The signal was ignored.

Remedy

This error may be logged during normal operation if the BFD stub has recently been deactivated.

Severity

Debug-Summary

Message Text

`%p1%` Ignored BFDI signal `%p2%` because BFDI join is in state `%p3%`.

Message Parameters

Name	Type
p1	String
p2	xInt32
p3	String

OSPFv3.NbrMgr.DropBFDSigUnkSess

Description

BFD signal related to unknown BFD session, and so was dropped. Packet dropped.

Remedy

This is likely to happen in race conditions, as the BFD stub may send signals to OSPF NM that cross with signals from OSPF NM informing the BFD stub that it has destroyed BFD session state.

Severity

Debug-Summary

Message Text

`%p1%` BFDI signal could not be associated with a BFD session, so dropped

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.CreatBFDSessCB

Description

OSPF BFD session CB created.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` BFD session CB created. `%p2%`, `%p3%`, handle `%p4%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	uInt32

OSPFv3.NbrMgr.DstryBFDSessCB

Description

OSPF BFD session CB destroyed.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` BFD session CB destroyed. `%p2%`, `%p3%`, handle `%p4%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	uInt32

OSPFv3.NbrMgr.CreatBFDSessCBRsrcFail

Description

OSPF NM BFD session CB creation failed due to lack of memory. OSPF NM BFD session CB creation failed. The local OSPF router cannot use BFD to detect failure of this neighbor. Failure detection will instead rely only on the OSPF HELLO protocol. OSPF will reattempt to establish a BFD session when next a new HELLO is received from this neighbor.

Remedy

If the problem does not resolve itself shortly, investigate the shortage of memory on this system. Make more memory available on this system.

Severity

Error

Message Text

`%p1%` BFD session CB creation failed due to lack of system resource. `%p2%` `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.BFDSessFSMInfo

Description

OSPF BFD session FSM input, state and action details.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` `%p3%` OSPF BFD session FSM input, state and action details. FSM input = `%p4%` (`%p5%`) FSM old state = `%p6%` (`%p7%`) FSM new state = `%p8%` (`%p9%`) FSM action = `%p10%` (`%p11%`)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	uInt8
p6	String
p7	uInt8
p8	String
p9	uInt8
p10	String
p11	uInt8

OSPFv3.NbrMgr.IgnPktUnexpNbrRtrId

Description

OSPF has received a packet on a multi-area link whose router ID does not match that configured. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Check the configuration of the network. There should be only one router at the other end of a multi-area interface.

Severity

Warning

Message Text

`%p1% %p2% %p3% %p4% %p5%` Unexpected router id (`%p6%`) received from neighbor.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	String
p6	String

OSPFv3.NbrMgr.IgnPktUnexpSrcIP

Description

OSPF has received a packet on a multi-area link whose source IP address does not match that configured. This packet was ignored. OSPF may show problems establishing or maintaining an adjacency with a neighboring router, or the Link State database may become inaccurate.

Remedy

Check the configuration of the network. There should be only one router at the other end of a multi-area interface.

Severity

Warning

Message Text

`%p1% %p2% %p3% %p4% %p5%` Unexpected source IP address (`%p6%`) received from neighbor.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	String
p6	String

OSPFv3.NbrMgr.DropHelloDiffInstcId

Description

A Hello packet received contained an instance ID different to the instance ID for this NM entity. The Hello packet is dropped.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` Dropped a Hello packet, its instance ID didn't match the NM entity. Diagnostic information for support: Packet instance ID = `%p2%` NM entity instance ID = `%p3%` Source Address = `%p4%` Destination Address = `%p5%` Packet data = `%p6%`

Message Parameters

Name	Type
p1	String
p2	sInt8
p3	sInt8
p4	String
p5	String
p6	HexPktByteArray

OSPFv3.NbrMgr.DropPktIfSLinkNotMatch

Description

A packet was received on a unicast socket. No network interface could be found to match the packet's destination address. No sham link could be found to match the area ID, source address and destination address of the packet. The packet has been dropped.

Remedy

If this log is unexpected then check configuration. Check that the interface or sham link was configured for this NM entity.

Severity

Info

Message Text

`%p1%` dropped a packet from `%p3%` to `%p2%` in area `%p4%`. No i/f matched the subnet of the destination address and no sham link matched both addresses and area. Diagnostic information for support: Packet data = `%p5%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	DecByteArray
p5	HexPktByteArray

OSPFv3.NbrMgr.DropPktVlfSLinkNotMatch

Description

A packet was received with a global unicast destination address. No network interface has been configured on this NM to match the interface index this packet was received on, so there was no matching virtual interface. No sham link matched the area ID, destination address, source address and instance ID of the packet. The packet has been dropped.

Remedy

If this log is unexpected then check configuration. Check that the interface or sham link was configured for this NM entity.

Severity

Info

Message Text

`%p1%` dropped a packet from `%p4%` to `%p3%` in area `%p5%` with instance ID `%p6%`. No OSPF i/f matched the receiving i/f index `%p2%` and therefore no virtual i/f matched. No sham link matched both addresses, area and instance. This may be expected if multiple OSPF instances are configured with this interface. Diagnostic information for support: Packet data = `%p7%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	String
p4	String
p5	DecByteArray
p6	uInt8
p7	HexPktByteArray

OSPFv3.NbrMgr.SetSockOptTClassFail

Description

The IPV6_TCLASS socket option could not be set. Socket processing will continue but transmitted IPv6 packets will have Traffic Class 0, which may make it difficult for Network Administrators to manage traffic flow in the IPv6 network.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` The IPV6_TCLASS socket option could not be set.

Message Parameters

Name	Type
p1	String

OSPFv3.NbrMgr.SuprsIfCfgErrTrap

Description

OSPF suppressed an interface config error MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` `%p2%`: suppressed trap: if config error: `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.SuprsVIfCfgErrTrap

Description

OSPF suppressed a virtual interface config error MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: virt if config error: `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.SuprsIfAuthFailTrap

Description

OSPF suppressed an interface authentication failure MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: if auth failure: `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.SuprsVIfAuthFailTrap

Description

OSPF suppressed a virtual interface authentication failure MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: virt if auth failure: `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.TxMsg

Description

NM has sent an OSPF message.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%p1%` Sent OSPF message type `%p2%` to `%p4%` on interface `%p3%`. OSPF message = `%p5%`

Message Parameters

Name	Type
p1	String
p2	uInt8
p3	String
p4	String
p5	HexPktByteArray

OSPFv3.NbrMgr.RxMsg

Description

NM has received an OSPF message.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%p1%` Received OSPF message type `%p2%` from `%p3%`. OSPF message = `%p4%`

Message Parameters

Name	Type
p1	String
p2	uInt8
p3	String
p4	HexPktByteArray

OSPFv3.NbrMgr.PostNMICtrlBufIfDead

Description

Buffer post for NMI control buffer pool for a QONM_ACTIVE_INTERFACE_DEAD signal.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1% %p2% %p3%` Buffer post made for NMI control buffer pool: active i/f dead

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.NbrMgr.DROrBDRMismatch

Description

Mismatch detected between local view of DR or BDR and neighbor's view.

Remedy

No action required - Informational message only.

Severity

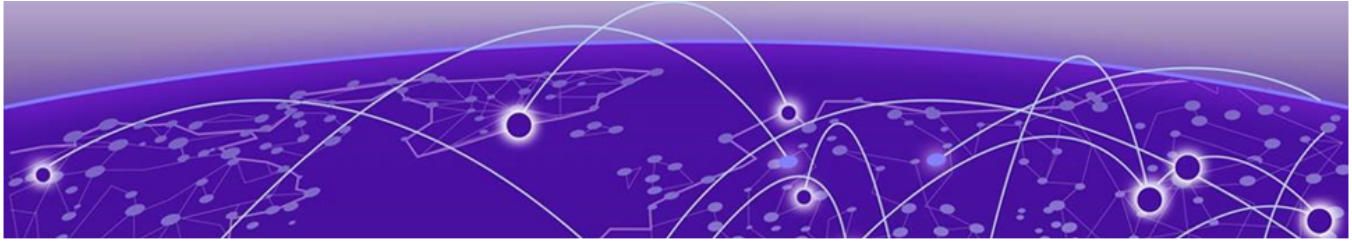
Debug-Summary

Message Text

`%p1%` `%p2%` `%p3%` `%p4%` Mismatch between local DR or BDR ID `%p5%` and neighbor's `%p6%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	String
p6	String



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OSPFv3.ProtoMgr.InitRsrcFail

Description

Resource failure during creation of the OSPF Protocol Manager FTI. Creation fails

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Error

Message Text

`%p1%` Initialization failed because of lack of system resources.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.InitOK

Description

The OSPF Protocol Manager has initialized successfully. Creation successful.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` Protocol Manager has initialized successfully. Entity index = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	String

OSPFv3.ProtoMgr.Dstry

Description

The OSPF Protocol Manager has been destroyed. FTI destroyed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` Protocol Manager has been destroyed. Entity index = `%p2%`

Message Parameters

Name	Type
p1	xInt32
p2	String

OSPFv3.ProtoMgr.InitHAFLibFail

Description

The OSPF Protocol Manager has failed to initialize the HAF library. Protocol Manager initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

`%p1%` Failed to initialize the HAF library.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.InitMIBLibFail

Description

The OSPF Protocol Manager has failed to initialize the MIB product support library. Protocol Manager initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

The OSPF Protocol Manager has failed to initialize the MIB product support library.

OSPFv3.ProtoMgr.InitMIBTblFail

Description

The OSPF Protocol Manager has failed to initialize one of its MIB tables. Protocol Manager initialization will fail.

Remedy

Gather diagnostics and investigate cause of failure.

Severity

Debug-Summary

Message Text

The OSPF Protocol Manager has failed to initialize one of its MIB tables.

OSPFv3.ProtoMgr.DtectIntCflct

Description

OSPF has detected an internal inconsistency. The primary OSPF instance will abend.

Remedy

Contact support personnel.

Severity

Error

Message Text

`%p1%` has encountered a problem and must terminate. Please contact support
Diagnostic information for support: Inconsistency code = `%p2%`

Message Parameters

Name	Type
p1	String
p2	xInt8

OSPFv3.ProtoMgr.JoinIntCompRsrcFail

Description

An attempt to join internal components together has failed due to resource shortages. OSPF may not be able to send or receive signals.

Remedy

Free some system resources and try again. If the problem persists then please contact support.

Severity

Error

Message Text

`%p1%` Internal component initialization has failed because of resource shortage. Diagnostic information for support: System Manager handle = `%p2%` Master application index = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	xInt32

OSPFv3.ProtoMgr.AllocAreaCBFail

Description

It was not possible to preallocate new memory for an area CB. A MIB request for an inactive interface to join a different area has failed.

Remedy

Free some system resources and try again.

Severity

Error

Message Text

A MIB request for an inactive interface to join a new area has failed due to a lack of memory. Size of memory requested `%p1%` Old area ID `%p2%` Requested area ID `%p3%`

Message Parameters

Name	Type
p1	sInt
p2	DecByteArray
p3	DecByteArray

OSPFv3.ProtoMgr.SlaveJoinMstrFailOvr

Description

A join to an instance of PM is failing over. PM is slave on this join. There will be a pause in OSPF processing until the join is reconnected to a backup instance of the master on this join.

Remedy

Investigate why the original instance failed over. If the problem persists then please contact support.

Severity

Warning

Message Text

`%p1%` A fault tolerance procedure has been initiated. Diagnostic information for support: Master index = `%p2%`

Message Parameters

Name	Type
p1	String
p2	uInt32

OSPFv3.ProtoMgr.SlaveJoinMstrFail

Description

A join to an instance of PM has failed. PM is slave on this join. There will be a pause in OSPF processing until the join is restarted to a new instance of the master on this join. Adjacencies or traffic engineering route calculation updates may be lost as a result.

Remedy

Investigate why the original instance failed. If the problem persists then please contact support.

Severity

Warning

Message Text

`%p1%` A component has failed. Diagnostic information for support: Master index = `%p2%`

Message Parameters

Name	Type
p1	String
p2	uInt32

OSPFv3.ProtoMgr.SlaveJoinDeactvOK

Description

A join to PM has been deactivated normally. PM is slave on this join. No more data can flow to this instance of PM.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` A component has been disconnected. Diagnostic information for support: Master index = `%p2%`

Message Parameters

Name	Type
p1	String
p2	uInt32

OSPFv3.ProtoMgr.MstrJoinSlaveFailOvr

Description

A master join is failing over. There will be a pause in send/receive processing until the join is reconnected to a backup instance of the join partner.

Remedy

Investigate why the original join partner failed over.

Severity

Warning

Message Text

A master join is failing over. Join interface type = `%p1%` Join interface ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32

OSPFv3.ProtoMgr.MstrJoinSlaveFail

Description

A master join has failed. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

Investigate why the original join partner failed.

Severity

Warning

Message Text

A master join has failed. Join interface type = `%p1%` Join interface ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32

OSPFv3.ProtoMgr.MstrJoinSlaveUnavail

Description

There is no slave entity available for the given master join. This can occur during normal operation depending on the order in which components are started. No data will flow over the given interface until the join partner becomes available.

Remedy

If the problem persists then investigate why there is no join partner available.

Severity

Info

Message Text

There is no slave entity available for the given master join. Join interface type = `%p1%` Join interface ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32

OSPFv3.ProtoMgr.MstrJoinSlaveCflct

Description

There is no suitable slave entity available for the given master join. No data will flow over the given interface.

Remedy

Fix system configuration so that the join master requests a suitable slave entity.

Severity

Error

Message Text

There is no suitable slave entity available for the given master join. Join interface type = %p1% Join interface ID = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	xInt32

OSPFv3.ProtoMgr.MstrJoinDeactvOK

Description

A master join has been deactivated normally. No more data can flow over the given interface.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A master join has been deactivated normally. Join interface type = %p1% Join interface ID = %p2%

Message Parameters

Name	Type
p1	sInt32
p2	xInt32

OSPFv3.ProtoMgr.ExitHelpNbrBFDDown

Description

The BFD session to a restarting neighbor has gone down while we are in helper mode for this neighbor. OSPF has exited helper mode for the neighbor.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` exited helper mode with `%p2%` because of BFD session failure.

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray

OSPFv3.ProtoMgr.AllocAggrMIBFail

Description

There was a failure to allocate the necessary memory to create an aggregate MIB row. The area aggregate will not be activated.

Remedy

Make more memory available to the system.

Severity

Error

Message Text

Failure to allocate memory for aggregate MIB row. The area aggregate will not be activated. Area ID = `%p1%`

Message Parameters

Name	Type
p1	DecByteArray

OSPFv3.ProtoMgr.CfgHostNoArea

Description

An attempt was made to configure a host for a non-existent area. The host will not be activated.

Remedy

Either create the area and try again, or configure the correct area.

Severity

Error

Message Text

The host will not be activated because the defined area does not exist. Defined area ID = `%p1%`

Message Parameters

Name	Type
p1	DecByteArray

OSPFv3.ProtoMgr.CfgAreaAggrNoArea

Description

An attempt was made to configure an area aggregate for a non-existent area. The area aggregate will not be activated.

Remedy

Either create the area and try again, or configure the correct area.

Severity

Error

Message Text

The area aggregate will not be activated because the area does not exist. Area ID = `%p1%`

Message Parameters

Name	Type
p1	DecByteArray

OSPFv3.ProtoMgr.IfSLRGExcdMaxMIBRprt

Description

An interface is configured with too many SRLGs to be able to report them all in the MIB signal. All the SRLGs cannot be reported over the MIB, but they will continue to be used in Traffic Engineering calculations. The MIB signal will contain as many SRLGs as possible.

Remedy

Either increase the number of SRLGs the MIB can report, or reduce the number of SRLGs an interface can hold.

Severity

Info

Message Text

All the SRLGs for `%p3%` could not be reported by the MIB. Number of SRLGs on this interface `%p1%` Maximum number that can be reported `%p2%` Interfaces IP address `%p4%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt32
p3	String
p4	VarFmtByteArray

OSPFv3.ProtoMgr.MstrJoinRegOK

Description

A master join has been successfully registered.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A master join has been successfully registered. Join interface type = `%p1%` Join interface ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32

OSPFv3.ProtoMgr.MstrJoinUnregOK

Description

A master join has been unregistered.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

A master join has been unregistered. Join interface type = `%p1%` Join interface ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32

OSPFv3.ProtoMgr.MstrJoinRegFail

Description

PM failed to register a master join. There will be a pause in send/receive processing until the join is restarted to a new slave instance.

Remedy

Investigate why the original join registration failed.

Severity

Warning

Message Text

PM has failed to register a master join. Join interface type = `%p1%` Join interface ID = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	xInt32

OSPFv3.ProtoMgr.ParsePreStrtRtrLSAFail

Description

The pre-start router LSA received from a neighbor as we attempt to restart hitlessly could not be parsed. Hitless restart will not perform as expected. It is likely that hitless restart will extend until the grace period expires.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Pre-start router LSA could not be parsed.

OSPFv3.ProtoMgr.RecvGrcLSAFmUnkNbr

Description

Could not identify the neighbor that originated a received grace LSA. This router will not act as helper for a neighbor undergoing hitless restart, and so that neighbor's hitless restart will exit prematurely.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Could not identify neighbor that originated grace LSA. Advertising Router = `%p1%`

Message Parameters

Name	Type
p1	DecByteArray

OSPFv3.ProtoMgr.HelpNotEnter

Description

Decided not to enter helper mode for a neighbor attempting hitless restart. The neighbor will not succeed in a hitless restart, and data will be forwarded round the restarting router until it reestablishes all adjacencies.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p7%%p9%` will not help neighbor `%p8%` attempt hitless restart Diagnostic information for support: Not adjacent `%p1%` Invalid restart reason `%p2%` Invalid grace period `%p3%`

Database change since restart %p4% Expired grace period %p5% User-defined policy reason %p6%

Message Parameters

Name	Type
p1	sInt
p2	sInt
p3	sInt
p4	sInt
p5	sInt
p6	sInt
p7	String
p8	DecByteArray
p9	String

OSPFv3.ProtoMgr.ParseGrcLSAFail

Description

Failed to parse a grace LSA. If the LSA is self originated, the grace period requested from neighbors prior to restart may not be discovered, and the default used instead. Otherwise, we may not act as a helper neighbor for another restarting router.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Failed to parse an LSA. The fields below supply more information on this problem. Advertising router %p1% Incorrect length %p2% Incorrect value %p3% Mandatory TLV not present %p4% Repeated type %p5%

Message Parameters

Name	Type
p1	DecByteArray
p2	sInt
p3	sInt
p4	sInt
p5	sInt

OSPFv3.ProtoMgr.RecvGrcLSAUnkTLV

Description

Received a grace LSA containing an unknown TLV.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received a grace LSA with an unknown TLV. TLV type `%p1%` TLV length `%p2%`

Message Parameters

Name	Type
p1	xInt16
p2	xInt16

OSPFv3.ProtoMgr.ReestbAdjacAfterRstrtOK

Description

All adjacencies we had prior to hitless restart have been reestablished. OSPF has exited from hitless restart.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

OSPF has exited hitless restart as all adjacencies are reestablished. Our router ID = `%p1%`

Message Parameters

Name	Type
p1	DecByteArray

OSPFv3.ProtoMgr.ExitRstrtGrcTimerExp

Description

The hitless restart grace period has expired. OSPF has exited from hitless restart.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

OSPF has exited hitless restart because grace period has expired. Our router ID = `%p1%`

Message Parameters

Name	Type
p1	DecByteArray

OSPFv3.ProtoMgr.ExitHelpRstrtLSAFlood

Description

An LSA is being flooded which is not a simple refresh while we are in helper mode for a restarting neighbor. OSPF has exited helper mode for a neighbor.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

OSPF has exited helper mode because of attempted flood of non-refresh LSA to neighbor. Our router ID = `%p1%` Neighbor's router ID = `%p2%` LSA Header = `%p3%`

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray
p3	HexByteArray

OSPFv3.ProtoMgr.ExitHelpGrcTimerExp

Description

The grace period for a restarting neighbor has expired. OSPF has exited helper mode for a neighbor.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

OSPF has exited helper mode for a neighbor whose grace period has expired. Our router ID = `%p1%` Neighbor's router ID = `%p2%`

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray

OSPFv3.ProtoMgr.ExitHelpGrcLSAFlush

Description

The grace LSA for a restarting neighbor has been flushed from our database. OSPF has exited helper mode for a neighbor.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

OSPF has exited helper mode as the nbr's grace LSA has been flushed. Our router ID = `%p1%` Neighbor's router ID = `%p2%`

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray

OSPFv3.ProtoMgr.DefRepCBFail

Description

Defining a replication control block has failed, probably due to a resource shortage. The Protocol Manager entity cannot be created.

Remedy

Investigate the cause of the failure.

Severity

Error

Message Text

`%p2%` failed to define replication control block type `%p1%`.

Message Parameters

Name	Type
p1	xInt32
p2	String

OSPFv3.ProtoMgr.RecvUnexpRepOperHAFLib

Description

An unexpected replication operation has been received from the HAF library. The Protocol Manager instance will terminate.

Remedy

This represents an internal logic error. Contact OSPF customer support with details of the problem.

Severity

Error

Message Text

An unexpected replication operation has been received from the HAF library. This is a critical failure and the Protocol Manager will be destroyed. Replication operation request = `%p1%`

Message Parameters

Name	Type
p1	xInt32

OSPFv3.ProtoMgr.RecvUnexpRtrnHAFLib

Description

An unexpected return code has been received from the HAF library. The Protocol Manager instance will terminate.

Remedy

This represents an internal logic error. Contact OSPF customer support with details of the problem.

Severity

Error

Message Text

An unexpected return code has been received from the HAF library. This is a critical failure and the Protocol Manager will be destroyed. Return code = `%p1%`

Message Parameters

Name	Type
p1	xInt32

OSPFv3.ProtoMgr.AllocRepHndlFail

Description

A replication handle could not be created for a control block. The Control Block will be destroyed. If this operation was triggered by a MIB command then the MIB signal will be returned with a failure code. This may cause some configuration information to have to be resent. Alternatively if this operation was caused by an OSPF protocol exchange then the packet that triggered it will be dropped.

Remedy

Investigate the source of the failure. It is probably due to a resource shortage.

Severity

Warning

Message Text

`%p2%` failed to allocate a replication handle for control block type `%p1%`.

Message Parameters

Name	Type
p1	xInt32
p2	String

OSPFv3.ProtoMgr.AllocRepCBFail

Description

Failed to allocate a replicated control block. The replication operation will be failed and the MIB command that attempted to create it will be returned with a failure code. This may cause some configuration information to have to be resent.

Remedy

Investigate the source of the failure. It is probably due to a resource shortage on the backup protocol manager.

Severity

Warning

Message Text

`%p3%` failed to allocate control block type `%p1%` identifier `%p2%`.

Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	String

OSPFv3.ProtoMgr.CreatAreaAggrNotMIBCfg

Description

An attempt was made to configure an area aggregate for an area that has not been MIB configured. An area must be MIB configured before an area aggregate can be

configured. Implicitly created areas (such as those created by activating an interface in the area) are not suitable to hold area aggregates, they have to be explicitly configured first. The area aggregate will not be created.

Remedy

Send in a request to configure the area via the MIB, and then repeat the command to create the area aggregate.

Severity

Error

Message Text

The area aggregate will not be created because the associated area has not been MIB configured. Areas must be explicitly MIB configured (rather than implicitly created by an interface activation) before area aggregates can be assigned to them. The solution is to configure the area by sending in a MIB request, which will replicate this area to the backup. Then resend the area aggregate MIB request. Area ID = `%p1%`

Message Parameters

Name	Type
p1	DecByteArray

OSPFv3.ProtoMgr.ActvNonP2PIfNoIPAddr

Description

Attempted to activate an interface which requires an IP address but for which one has not been defined. The MIB activation request is failed.

Remedy

Correct the configuration and reissue the activation request.

Severity

Error

Message Text

Non point-to-point interfaces must have an IP-address If index = `%p1%` Interface type = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	sInt32

OSPFv3.ProtoMgr.ActvProtoOK

Description

OSPF successfully activated. All necessary pre-configuration has been done. The OSPF protocol should now be running over any enabled interfaces.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` activated successfully Router ID `%p2%`

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.ActvProtoFail

Description

OSPF entity has failed to activate. OSPF will need to be restarted.

Remedy

Check diagnostics to try to determine the cause of the failure. If problem persists contact support.

Severity

Error

Message Text

`%p1%` has failed to activate. Router ID `%p2%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray

OSPFv3.ProtoMgr.DeactvProtoOK

Description

OSPF deactivated. OSPF has been deactivated - no further protocol operations will occur until it is reactivated.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` deactivated Router ID `%p2%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray

OSPFv3.ProtoMgr.AllocRtrLSAFail

Description

Memory shortage The new or changed router LSA will not be advertised. Routes may temporarily not be available to the network.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory to build a router LSA. Size of requested memory = `%p1%`

Message Parameters

Name	Type
p1	uInt32

OSPFv3.ProtoMgr.AllocNetLSAFail

Description

Memory shortage The new or changed network LSA will not be advertised. Routes may temporarily not be available to the network.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory to build a network LSA. Size of requested memory = `%p1%`

Message Parameters

Name	Type
p1	uInt32

OSPFv3.ProtoMgr.DtectDBMemCrupt

Description

Memory corruption. Memory within the box has been corrupted.

Remedy

Reboot the system and contact support. Turn memory verification on if possible to catch the first occurrence of memory being overwritten.

Severity

Error

Message Text

Memory corruption discovered when checksumming LSAs in the database.

OSPFv3.ProtoMgr.SyncFSMRecvInvIn

Description

The synchronizer FSM has received a bad input. Updates sent to QCLS users (LFA, CSPF) and RTM components may fail.

Remedy

Contact support, passing details of this problem log.

Severity

Error

Message Text

An error has occurred with the synchronizer FSM. Action: `%p1%` Input: `%p2%` Old state: `%p3%`

Message Parameters

Name	Type
p1	sInt8
p2	sInt8
p3	sInt8

OSPFv3.ProtoMgr.DBFSMRecvInvIn

Description

The database FSM has received a bad input. LSAs may not be updated and stored correctly in the database, resulting in routes not being calculated.

Remedy

Contact support, passing details of this problem log.

Severity

Error

Message Text

An error has occurred with the database FSM. Action: `%p1%` Input: `%p2%` Old state: `%p3%`

Message Parameters

Name	Type
p1	sInt8
p2	sInt8
p3	sInt8

OSPFv3.ProtoMgr.AllocSummLSAFail

Description

Memory shortage The new or changed summary LSA will not be advertised. Routes may temporarily not be available to the network.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory to build a summary LSA.

OSPFv3.ProtoMgr.AllocReschedBufFail

Description

Memory shortage, causing failure to allocate a necessary buffer at start-up. OSPF will not start.

Remedy

Make more memory available to the system.

Severity

Error

Message Text

Failed to allocate memory at start-up for NBB_RESCHEDULE buffer.

OSPFv3.ProtoMgr.AllocAdverExtLSAFail

Description

Memory shortage The new or changed external LSA will not be advertised. Routes may temporarily not be available to other routers in the network.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory to build an external LSA. LSA type = `%p1%` Size of requested memory = `%p2%`

Message Parameters

Name	Type
p1	xInt8
p2	uInt32

OSPFv3.ProtoMgr.AllocProcExtLSAFail

Description

Memory shortage meaning that new route(s) from RTM are not processed. The external routes will not be stored or advertised. Routing information will not be accurate.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory to process an external LSA. Size of requested memory = `%p1%`

Message Parameters

Name	Type
p1	uInt32

OSPFv3.ProtoMgr.DropPktFmOldCSPF

Description

PM has dropped a packet which appeared to come from an old instance of a QCLS user (CSPF or LFA).

Remedy

No action required - Informational message only.

Severity

Info

Message Text

OSPF dropped packet from old instance of CSPF or LFA. Receiver handle = `%p1%`

Message Parameters

Name	Type
p1	uInt32

OSPFv3.ProtoMgr.DropPktFmOldRTM

Description

PM has dropped a packet which appeared to come from an old instance of RTM.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

OSPF dropped packet from old instance of RTM. Receiver handle = `%p1%`

Message Parameters

Name	Type
p1	uInt32

OSPFv3.ProtoMgr.AllocUpdtLSAFail

Description

Memory shortage Failed to reoriginate a new LSA to replace an LSA with wrapping sequence number. We will attempt to update the LSA again in 5 seconds time.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory to update LSA with wrapping sequence number. LS ID of the LSA is `%p1%` Advertising router `%p2%` LS Type `%p3%`

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray
p3	uInt8

OSPFv3.ProtoMgr.AllocGrcLSAFail

Description

Memory shortage A grace LSA cannot be advertised. This may lead to the attempted planned or unplanned hitless restart failing.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory to build a grace LSA. Size of requested memory = `%p1%`

Message Parameters

Name	Type
p1	uInt32

OSPFv3.ProtoMgr.WrapLSIDInstcCnt

Description

An LS ID instance counter has wrapped.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%`: An LS ID instance counter has wrapped. LS ID instance counter pointer = `%p2%`

Message Parameters

Name	Type
p1	String
p2	Ptr

OSPFv3.ProtoMgr.AllocRtInstlFail

Description

Failed to allocate memory to process a new summary or external LSA. The LSA will not be stored in the routing table, so that routing calculations may be not up to date.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to obtain memory to install route in routing table. LSA type = `%p1%`

Message Parameters

Name	Type
p1	xInt8

OSPFv3.ProtoMgr.AllocNSSADfltLSAFail

Description

Memory shortage The new or changed NSSA default LSA will not be advertised. Routes may temporarily not be available to the network.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory to build an NSSA default LSA. Size of requested memory = `%p1%`

Message Parameters

Name	Type
p1	uInt32

OSPFv3.ProtoMgr.AllocLSAInstlDBFail

Description

Memory shortage Failed to install an LSA into the database. The database will be out of date, and routes may temporarily not be available to the network.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory to install an LSA into the database. LS ID of the LSA is `%p1%` Advertising router `%p2%` LS Type `%p3%`

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray
p3	uInt8

OSPFv3.ProtoMgr.CreatBufPoolFail

Description

Memory shortage The system will not activate successfully.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to create buffer pools at start-up.

OSPFv3.ProtoMgr.CreatDistListFail

Description

Memory shortage - Failed to initalize a Distribution List successfully. The system will not activate successfully.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to create Distribution List at start-up.

OSPFv3.ProtoMgr.AllocRtCalcFail

Description

Memory shortage Failed to allocate memory required for the routing calculation. This routing calculation may not report all routes.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory during routing calculation.

OSPFv3.ProtoMgr.CreatExtRtFail

Description

Memory shortage Failed to create an external route entry. This destination will not be included in routing calculations, or passed to other routers.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to create external route entry. Destination Network = `%p1%` Network Mask = `%p2%`

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray

OSPFv3.ProtoMgr.BldNSSADfltFail

Description

Memory shortage Failed to build an NSSA default entry. Databases in the network may become inaccurate.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

NSSA default will not get flooded.

OSPFv3.ProtoMgr.InitCSPFJoinOK

Description

Join to QCLS user has initialized successfully. Join successful.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

The join to a QCLS user has initialized successfully. Receiver handle = `%p1%` LSDBM type = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	String

OSPFv3.ProtoMgr.TermCSPFJoinOK

Description

Join to QCLS user has terminated. Join terminated.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

The join to a QCLS user has terminated. Receiver handle = `%p1%` LSDBM type = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	String

OSPFv3.ProtoMgr.AllocStrtUpMemFail

Description

Memory shortage, causing failure to allocate a necessary portion of memory at start-up. OSPF will not start.

Remedy

Make more memory available to the system.

Severity

Error

Message Text

Failed to allocate memory at start-up.

OSPFv3.ProtoMgr.AllocRadixTreeNodeFail

Description

Memory shortage, failed to allocate radix tree node. This route will not be added to the radix tree. Some external routes may be marked as unreachable if they have a forwarding address corresponding to this network.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory for radix tree node. Destination Network = `%p1%` Prefix length = `%p2%`

Message Parameters

Name	Type
p1	DecByteArray
p2	uInt8

OSPFv3.ProtoMgr.AddNbrLSARtxListFail

Description

Memory shortage Failed to install an LSA into the neighbor's retransmit list. The databases between us and the neighbor may become out of step, but the protocol will recover.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to add LSA to neighbor's retransmit list. LS ID of the LSA is %p1% Advertising router %p2% LS Type %p3% Neighbor's router id %p4%

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray
p3	uInt8
p4	DecByteArray

OSPFv3.ProtoMgr.FloodMaxAgeLSAFail

Description

Memory shortage Failed to flood a maxage LSA. The databases between this box and its neighbors may become temporarily out of step, but the protocol will recover.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to add LSA to neighbor's retransmit list. LS ID of the LSA is %p1% Advertising router %p2% LS Type %p3%

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray
p3	uInt8

OSPFv3.ProtoMgr.DtectNullIPAddrLinkTLV

Description

Null IP Address found in Link TLV. IP Address will not be included in Link_update signal.

Remedy

Trace source of LSA.

Severity

Info

Message Text

Null IP Address found in link TLV in Traffic Engineering LSA. Neighbor ID : `%p1%`

Message Parameters

Name	Type
p1	DecByteArray

OSPFv3.ProtoMgr.AllocDebugRtTblFail

Description

A resource shortage has meant that memory has not been allocated for the debug routing table. It will not be possible to perform the debug routing table check of the incremental routing calculation.

Remedy

Make more memory available to OSPF.

Severity

Warning

Message Text

Memory for the debug routing table could not be allocated. Memory type `%p1%`

Message Parameters

Name	Type
p1	xInt32

OSPFv3.ProtoMgr.AllNbrUp

Description

All expected neighbors are now up. Synchronization of the external CSPF TE database(s), LFA database(s) and RTM Routing Table(s) will now begin.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

All expected OSPF neighbors are now up. Synchronization of the external CSPF TE database(s), LFA database(s) and RTM Routing Table(s) will now begin. Current number of neighbors in state: DOWN `%p1%` ATTEMPT `%p2%` INIT `%p3%` TWO_WAY `%p4%` EXCHANGE_START `%p5%` EXCHANGE `%p6%` LOADING `%p7%` FULL `%p8%`

Message Parameters

Name	Type
p1	uInt16
p2	uInt16
p3	uInt16
p4	uInt16
p5	uInt16
p6	uInt16
p7	uInt16
p8	uInt16

OSPFv3.ProtoMgr.NbrAdjacDown

Description

An adjacency with a neighbor has gone down. Resources associated with database exchange for this neighbor will be freed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p3%` An adjacency with a neighbor has gone down. Resources associated with database exchange for this neighbor will be freed. Neighbor router ID `%p1%` Neighbor IP address `%p2%` Interface category `%p4%` Interface neighbor `%p5%`

Message Parameters

Name	Type
p1	DecByteArray
p2	VarFmtByteArray
p3	String
p4	String
p5	String

OSPFv3.ProtoMgr.GetLSIDInstcNumFail

Description

Could not originate a new LSA because all LS ID instance numbers are in use. The new LSA will not be advertised.

Remedy

Investigate why the router is trying to originate so many LSAs.

Severity

Warning

Message Text

`%p1%`: Failed to obtain LS ID instance number to build an LSA. LSA type = `%p2%`

Message Parameters

Name	Type
p1	String
p2	xInt8

OSPFv3.ProtoMgr.AddSPFEntOK

Description

SPF entry added to tree.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%`: Added SPF entry to tree LSA header = `%p2%`

Message Parameters

Name	Type
p1	String
p2	HexByteArray

OSPFv3.ProtoMgr.DestNotAddSPFNotBiDrect

Description

Destination not added to SPF tree because link is not bi-directional.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%`: Destination not added to SPF tree because link is not bi-directional. LSA header = `%p2%`

Message Parameters

Name	Type
p1	String
p2	HexByteArray

OSPFv3.ProtoMgr.RemDestFmSPF

Description

Destination removed from SPF tree because node is not reachable.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%`: Destination removed from SPF tree because node is not reachable. LSA header = `%p2%`

Message Parameters

Name	Type
p1	String
p2	HexByteArray

OSPFv3.ProtoMgr.AddRtToRtTbl

Description

Route added to OSPFv3 routing table.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%`: Route added to OSPFv3 routing table. Route entry = `%p2%` Destination type = `%p3%` Route entry flags = `%p4%` `%p5%` Destination router ID = `%p6%` Prefix length = `%p7%` Prefix = `%p8%` Is local route? = `%p9%`

Message Parameters

Name	Type
p1	String
p2	Ptr
p3	xInt8
p4	xInt8
p5	xInt8
p6	HexByteArray
p7	xInt8
p8	VarFmtByteArray
p9	sInt

OSPFv3.ProtoMgr.SendRtToRtMgr

Description

Send route to routing table manager.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%`: Send route to routing table manager. Route entry = `%p2%` Destination type = `%p3%` Route entry flags = `%p4%` `%p5%` Destination router ID = `%p6%` Prefix length = `%p7%` Prefix = `%p8%` Is local route? = `%p9%`

Message Parameters

Name	Type
p1	String
p2	Ptr
p3	xInt8
p4	xInt8
p5	xInt8
p6	HexByteArray
p7	xInt8
p8	VarFmtByteArray
p9	sInt

OSPFv3.ProtoMgr.RtEntStatus

Description

Route entry status.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%`: Route entry status. Route entry = `%p2%` Route entry flags = `%p3%` `%p4%`

Message Parameters

Name	Type
p1	String
p2	Ptr
p3	xInt8
p4	xInt8

OSPFv3.ProtoMgr.DropPktFmTermNbr

Description

A packet has been dropped because it was received from a neighbor with which contact has already been terminated.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` packet dropped because contact with the neighbor has already been lost. Neighbor router ID = `%p2%` Area ID = `%p3%` Packet data = `%p4%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	DecByteArray
p4	HexPktByteArray

OSPFv3.ProtoMgr.DtectSwErr

Description

Internal logic error within a OSPF FSM. OSPF abends.

Remedy

Contact support with details of the problem.

Severity

Error

Message Text

`%p1%` detected a software error. Diagnostic information for support: `%p2%` FSM id = `%p3%` FSM action = `%p4%` FSM input = `%p5%` FSM state = `%p6%`

Message Parameters

Name	Type
p1	String
p2	String
p3	xInt32
p4	uInt8
p5	String
p6	String

OSPFv3.ProtoMgr.DropHelloRxUnexpIf

Description

A Hello packet has been dropped because the same Hello packet had previously been received through a different local interface or the neighbor is configured to use a different interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` `%p2%` Hello packet dropped because it was received through an unexpected local interface. Neighbor `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.DropHelloFmLocRtrId

Description

Received Hello packet with our router ID. Packet dropped.

Remedy

Check configuration, particularly ensuring that there are no other routers with our ID. If this does not solve problem, contact support with details of the problem.

Severity

Warning

Message Text

`%p1% %p2%` Hello packet dropped because source router ID matches local router ID. Source IP address = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	VarFmtByteArray

OSPFv3.ProtoMgr.DropPktNoMatchNbr

Description

Received packet to the destination AllDRouters, yet we are not designated or backup designated router on this interface. Packet dropped.

Remedy

Contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` `%p2%` OSPF packet dropped because it was not matched to an active neighbor. Received packet on designated router multicast address. Diagnostic information for support: Packet data = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	HexPktByteArray

OSPFv3.ProtoMgr.ActvVlfFailDeactv

Description

A virtual interface has not been activated because tidy-up processing from a previous instance of the virtual interface has not yet completed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` Virtual interface not activated because previous deactivation in progress. Neighbor router ID = `%p2%` Area ID = `%p3%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	DecByteArray

OSPFv3.ProtoMgr.DropIntMsgIfNotActv

Description

An internal message has been dropped because it could not be correlated with an active interface.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` An internal message has been dropped because no related active interface was found.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.DropPktNoMatchLink

Description

OSPF Packet was dropped because it was received over a virtual or sham link but we do not have a matching link.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` OSPF packet dropped because it was received on non-existent or inactive virtual or sham link. Diagnostic information for support: Source router ID = `%p2%` Source IP address = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	VarFmtByteArray

OSPFv3.ProtoMgr.DropNonHelloNoMatchNbr

Description

Non-HELLO packet could not be matched to an active neighbor. Packet dropped.

Remedy

Contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` `%p2%` OSPF packet dropped because it was not matched to an active neighbor. Diagnostic information for support: Packet data = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	HexPktByteArray

OSPFv3.ProtoMgr.DropPktNoRsrc

Description

An action for a neighbor has failed because of resource shortage. Packet dropped.

Remedy

Give the system more memory to work with. If the problem persists then please contact support.

Severity

Warning

Message Text

`%p1% %p2% %p3% %p4%` Action for neighbor failed because of resource shortage.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.ProtoMgr.DropDDInvIfMTU

Description

DB DESCRIPTION packet received with invalid interface MTU. Packet dropped.

Remedy

Contact support for advice.

Severity

Info

Message Text

DB DESCRIPTION packet received with invalid interface MTU `%p1%` and will be dropped. To ignore MTU mismatches, set the MtuIgnore MIB option to true. Expected MTU = `%p2%` Packet data = `%p3%`

Message Parameters

Name	Type
p1	uInt16
p2	uInt16
p3	HexPktByteArray

OSPFv3.ProtoMgr.DropDDInvMstrBit

Description

DB DESCRIPTION packet received with invalid master / slave bit. Packet dropped.

Remedy

Contact support for advice.

Severity

Info

Message Text

DB DESCRIPTION packet received with invalid master / slave bit. Flags = `%p1%`. Exchange status = `%p2%`. Packet data = `%p3%`

Message Parameters

Name	Type
p1	xInt8
p2	xInt8
p3	HexPktByteArray

OSPFv3.ProtoMgr.DropDDInvInitBit

Description

DB DESCRIPTION packet received with invalid init bit. Packet dropped.

Remedy

This is an unexpected condition. Restart the process. If that does not help contact technical support with the output of "show tech".

Severity

Warning

Message Text

DB DESCRIPTION packet received with invalid init bit. Packet data = `%p1%`

Message Parameters

Name	Type
p1	HexPktByteArray

OSPFv3.ProtoMgr.DropDDInvOptByte

Description

DB DESCRIPTION packet received with invalid options byte. Packet dropped.

Remedy

Contact support for advice.

Severity

Warning

Message Text

DB DESCRIPTION packet received with invalid options byte `%p1%`. Expected value for options byte = `%p2%`. Packet data = `%p3%`

Message Parameters

Name	Type
p1	xInt8
p2	xInt8
p3	HexPktByteArray

OSPFv3.ProtoMgr.DropLSAInvType

Description

LSA received during database exchange with invalid type. Packet dropped.

Remedy

Contact support for advice.

Severity

Warning

Message Text

LSA received during database exchange with invalid type. LS type = %p1%. Packet data = %p2%

Message Parameters

Name	Type
p1	uInt8
p2	HexPktByteArray

OSPFv3.ProtoMgr.DropLSReqInvState

Description

LS REQUEST packet received in invalid state. This is most likely because an interface has restarted without the neighbor noticing, or because the packet is multicast. Packet dropped.

Remedy

Contact support for advice.

Severity

Debug-Summary

Message Text

LS REQUEST packet received in invalid state. Neighbor state = %p1% Packet data = %p2%

Message Parameters

Name	Type
p1	uInt8
p2	HexPktByteArray

OSPFv3.ProtoMgr.DropLSUpdtFmtErr

Description

Error in the packet formatting of a received LS UPDATE signal. Packet dropped.

Remedy

Contact support for advice.

Severity

Warning

Message Text

Error in the packet formatting of a received LS UPDATE signal. Length = `%p1%` Packet data = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	HexPktByteArray

OSPFv3.ProtoMgr.DropLSUpdtInvState

Description

LS UPDATE packet received in invalid state. This is most likely because an interface has restarted without the neighbor noticing, or because the packet is multicast. Packet dropped.

Remedy

Contact support for advice.

Severity

Debug-Summary

Message Text

LS UPDATE packet received in invalid state. Neighbor state = `%p1%` Packet data = `%p2%`

Message Parameters

Name	Type
p1	uInt8
p2	HexPktByteArray

OSPFv3.ProtoMgr.DropLSUpdtInvType

Description

LS UPDATE received with invalid LS type. Packet dropped.

Remedy

Contact support for advice.

Severity

Warning

Message Text

LS UPDATE received with invalid LS type. LS type = `%p1%` LS type bits = `%p2%`

Message Parameters

Name	Type
p1	uInt8
p2	xInt8

OSPFv3.ProtoMgr.AllocRtxCBFail

Description

Retransmit CB could not be allocated. LSA cannot be flooded.

Remedy

Give the system more memory to work with.

Severity

Warning

Message Text

Retransmit CB could not be allocated. LSA header = `%p1%`

Message Parameters

Name	Type
p1	HexByteArray

OSPFv3.ProtoMgr.IgnAckFmDiffRtxInstc

Description

Acked instance is not the same as instance on the retransmission list. This is most likely to be when large-scale network topology changes are taking place and, for example, a max-aged version of an LSA is flooded before an acknowledgement to a previous version has been received. Ack ignored.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Acked instance is not the same as instance on the retransmission list. Acked LSA instance = `%p1%` LSA instance on list = `%p2%`

Message Parameters

Name	Type
p1	HexByteArray
p2	HexByteArray

OSPFv3.ProtoMgr.AddLSReqListRsrcFail

Description

LSA could not be added to Link State Request list due to resource failure. Database description packet will be dropped.

Remedy

Give the system more memory to work with.

Severity

Warning

Message Text

LSA could not be added to Link State Request list. Database description packet data = `%p1%`

Message Parameters

Name	Type
p1	HexPktByteArray

OSPFv3.ProtoMgr.AllocTxCBFail

Description

Transmit CB could not be allocated. LSA cannot be flooded.

Remedy

Give the system more memory to work with.

Severity

Warning

Message Text

Transmit CB could not be allocated. LSA header = `%p1%`

Message Parameters

Name	Type
p1	HexByteArray

OSPFv3.ProtoMgr.AckLSARsrcFail

Description

LSA could not be acked due to a resource failure. Neighbor will retransmit LSA to us.

Remedy

Give the system more memory to work with.

Severity

Warning

Message Text

LSA could not be acked. LSA header = `%p1%`

Message Parameters

Name	Type
p1	HexByteArray

OSPFv3.ProtoMgr.DropLSAckInvState

Description

LS ACK packet received in invalid state. This is most likely because an interface has restarted without the neighbor noticing, or because the packet is multicast. Packet dropped.

Remedy

Contact support for advice.

Severity

Debug-Summary

Message Text

LS ACK packet received in invalid state. Neighbor state = `%p1%` Packet data = `%p2%`

Message Parameters

Name	Type
p1	uInt8
p2	HexPktByteArray

OSPFv3.ProtoMgr.DropLSReqEmptyPkt

Description

Empty LS REQUEST packet received. Packet dropped.

Remedy

Contact support for advice.

Severity

Warning

Message Text

Empty LS REQUEST packet received. Packet data = `%p1%`

Message Parameters

Name	Type
p1	HexPktByteArray

OSPFv3.ProtoMgr.ProcLargeLSARsrcFail

Description

A resource shortage meant that a large LSA could not be processed. The LSA is ignored and routing may be impaired.

Remedy

Make more memory available to OSPF.

Severity

Error

Message Text

A large LSA could not be processed because of a memory shortage. LSA size = `%p1%`. Packet data = `%p2%`

Message Parameters

Name	Type
p1	uInt16
p2	HexPktByteArray

OSPFv3.ProtoMgr.AllocIfCBFail

Description

Could not allocate memory for an interface CB. OSPF will not function fully.

Remedy

Give the system more memory to work with.

Severity

Error

Message Text

Could not allocate memory for an interface CB.

OSPFv3.ProtoMgr.I3IfQueryFail

Description

The I3 stub failed to inform NM of the local network interfaces. The OSPF stack terminates.

Remedy

Check the network connections are correctly configured and working.

Severity

Error

Message Text

I3 interface query failed, return code `%p1%`.

Message Parameters

Name	Type
p1	xInt32

OSPFv3.ProtoMgr.IfNameChg

Description

The interface name of an interface has been changed. Interface has different name.

Remedy

Check interface configuration is as expected.

Severity

Info

Message Text

The interface name of an interface (`%p1%`) has been changed. Old interface name = `%p2%` New interface name = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.I3AddrQueryFail

Description

The I3 stub failed to inform NM of the local network addresses. The OSPF stack terminates.

Remedy

Check the network connections are correctly configured and working.

Severity

Error

Message Text

I3 addresses query failed, return code `%p1%`.

Message Parameters

Name	Type
p1	xInt32

OSPFv3.ProtoMgr.DropPktFmOldI3Stub

Description

NM dropped a packet which appeared to come from an old instance of the I3 interface information stub.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

PM dropped packet from old I3 stub instance. Receiver handle = `%p1%` Sender's main PID = `%p2%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

OSPFv3.ProtoMgr.AllocIGPShortcutCBFail

Description

Could not allocate memory for an IGP shortcut interface CB. The IGP shortcut will not be used by OSPF.

Remedy

Give the system more memory to work with.

Severity

Warning

Message Text

`%p1%%p2%` Could not allocate memory for the IGP shortcut interface.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.DropLSAInvCksum

Description

LSA received with invalid fletcher checksum. Packet dropped.

Remedy

Contact support for advice.

Severity

Warning

Message Text

LSA received with invalid fletcher checksum. LS type = `%p1%` Source router = `%p2%` Received checksum = `%p3%`

Message Parameters

Name	Type
p1	uInt8
p2	DecByteArray
p3	xInt16

OSPFv3.ProtoMgr.DropLSAInv

Description

Received LSA is invalid. The LSA is ignored. The neighbor may resend the LSA repeatedly.

Remedy

If the problem persists then check the diagnostics on the neighboring router for indications of why it is sending an invalid LSA.

Severity

Warning

Message Text

`%p1% %p2% %p3% %p4%` A received LSA is being dropped because it is invalid. Diagnostic information for support: LSA header = `%p5%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	HexByteArray

OSPFv3.ProtoMgr.CreatIfCBSameIndxFail

Description

A newly created interface used the same interface index as an existing IGP shortcut interface. None. OSPF will attempt to resolve the problem.

Remedy

If the condition recurs then contact support with details of the problem.

Severity

Info

Message Text

%p1%%p2% <%p3%> An interface CB cannot be created because of a clash with an existing IGP shortcut interface.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.UpdtNextHopInfo

Description

Next hop information for a route or SPF entry has just been updated.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Updated next hop information: Route/SPF pointer = %p1% Route/SPF dest ID = %p2% Next hop info ptr = %p3% Flags = %p4% Size = %p5% Hops pointer = %p6% Num ECMP paths = %p7%

Message Parameters

Name	Type
p1	Ptr
p2	HexByteArray
p3	Ptr
p4	uInt8
p5	uInt32
p6	Ptr
p7	uInt16

OSPFv3.ProtoMgr.SaveIfOpaqObjRsrcFail

Description

Resource failure preventing storage of an interface's opaque object. All interface information will be refreshed.

Remedy

Increase the amount of memory available to the system. If the problem persists then please contact support with details of the problem.

Severity

Error

Message Text

`%p1%` `%p2%` Resource failure during storage of interface's opaque object, length `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	uInt32

OSPFv3.ProtoMgr.AllocCfgIfFail

Description

Could not allocate memory required to configure an interface. Interface cannot be configured.

Remedy

Give OSPF more memory.

Severity

Error

Message Text

Could not allocate memory required to configure an interface.

OSPFv3.ProtoMgr.CreatUnnumIfNoIndx

Description

Cannot create unnumbered interface with no interface index. Interface MIB row cannot be created.

Remedy

Retry, specifying either an IP address or a non-zero interface index.

Severity

Error

Message Text

Cannot create unnumbered interface with no if index.

OSPFv3.ProtoMgr.CreatNumIfNonZeroIndx

Description

Cannot create a numbered network or multi-area interface with a non-zero address_less_if index. Interface MIB row cannot be created.

Remedy

Retry, specifying either an unnumbered interface or a zero address_less_if index.

Severity

Error

Message Text

Cannot create numbered interface with non-zero address_less_if. address_less_if field = `%p1%` IP address = `%p2%`

Message Parameters

Name	Type
p1	sInt32
p2	VarFmtByteArray

OSPFv3.ProtoMgr.OrigSameLSA

Description

An LSA has been originated which does not differ to the last LSA originated. No effects.

Remedy

No action is necessary.

Severity

Debug-Summary

Message Text

LSA originated which does not differ from previous origination. LS type = `%p1%`

Message Parameters

Name	Type
p1	uInt8

OSPFv3.ProtoMgr.ResizRtxHashTbl

Description

The retransmit list hash table has been resized.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

The retransmit list hash table has been resized. The previous size of the hash table was `%p1%` entries. The new size of the hash table is `%p2%` entries.

Message Parameters

Name	Type
p1	uInt32
p2	uInt32

OSPFv3.ProtoMgr.ResizRtxHashTblRsrcFail

Description

Could not allocate memory to resize the retransmit list hash table. The hash table will not have been resized.

Remedy

Allocate more memory to the system.

Severity

Debug-Summary

Message Text

Could not resize retransmit list hash table.

OSPFv3.ProtoMgr.DropLSAckSmall

Description

LS ACK packet received which is too small. That is, it does not contain at least one LSA header. Packet dropped.

Remedy

Check diagnostics on the sending neighbor router for reasons why the invalid packet was sent.

Severity

Warning

Message Text

LS ACK packet received which is too small. Minimum packet length = `%p1%` Received packet length = `%p2%` Packet data = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	HexPktByteArray

OSPFv3.ProtoMgr.DropDDSmall

Description

DATABASE DESCRIPTION packet received which is too small. That is, it does not contain at least one LSA header. Packet dropped.

Remedy

Check diagnostics on the sending neighbor router for reasons why the invalid packet was sent.

Severity

Warning

Message Text

DATABASE DESCRIPTION packet received which is too small. Minimum packet length = %p1% Received packet length = %p2% Packet data = %p3%

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	HexPktByteArray

OSPFv3.ProtoMgr.CfgIfCBFail

Description

An Interface cannot be used by OSPF. The interface is unusable for OSPF.

Remedy

Give the system more memory to work with and check the configuration is consistent. If the problem persists then please contact support.

Severity

Error

Message Text

%p1% %p2% %p3% Interface CB cannot be configured. Give system more memory, and check configuration is consistent.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.DropLSUpdtSmall

Description

LS UPDATE packet received which is too small. That is, it does not contain at least one LSA header. Packet dropped.

Remedy

Check diagnostics on the sending neighbor router for reasons why the invalid packet was sent.

Severity

Warning

Message Text

LS UPDATE packet received which is too small. Minimum packet length = `%p1%` Received packet length = `%p2%` Packet data = `%p3%`

Message Parameters

Name	Type
p1	uInt32
p2	uInt32
p3	HexPktByteArray

OSPFv3.ProtoMgr.AllocRtCtrlFail

Description

Could not allocate memory for storing information on a Routing Controller advertised by the local node. OSPF will not function fully.

Remedy

Increase the memory available to OSPF.

Severity

Warning

Message Text

`%p1%` Could not allocate memory for a Routing Controller with Id `%p2%`.

Message Parameters

Name	Type
p1	String
p2	DecByteArray

OSPFv3.ProtoMgr.AllocRtCtrlCB

Description

A Routing Controller CB has been allocated.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` A Routing Controller CB has been allocated for Id `%p2%`.

Message Parameters

Name	Type
p1	String
p2	DecByteArray

OSPFv3.ProtoMgr.DropHelloFmSelf

Description

Received Hello packet that we have sent. Hello Packet dropped.

Remedy

Contact support with details of the problem.

Severity

Warning

Message Text

`%p1% %p2%` Received Hello packet dropped because it originated from local router. Diagnostic information for support: Source IP address = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	VarFmtByteArray

OSPFv3.ProtoMgr.FloodLSARsrcFail

Description

Could not flood LSA due to resource failure. LSA is not acked and will be retransmitted by neighbor.

Remedy

Allocate more resources to OSPF.

Severity

Warning

Message Text

Could not flood LSA due to resource failure. Packet data = `%p1%`

Message Parameters

Name	Type
p1	HexPktByteArray

OSPFv3.ProtoMgr.DropUnexpIntSig

Description

Internal signal received when not expected. The internal signal is ignored.

Remedy

If the problem persists or appears to be related to other problems then please contact support with details.

Severity

Warning

Message Text

`%p1%` Unexpected internal signal dropped. Diagnostic information for support: Sender PID = `%p2%` IPS type = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	xInt32

OSPFv3.ProtoMgr.AddI3StubJoinFail

Description

Could not add join to the I3 stub. OSPF will not activate.

Remedy

Contact support for advice.

Severity

Error

Message Text

Could not add join to the I3 stub.

OSPFv3.ProtoMgr.NMIJoinUp

Description

An NMI join has come up.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` An NMI join has come up. NM entity index = `%p2%` NM PID = `%p3%` Receiver handle = `%p4%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32
p4	uInt32

OSPFv3.ProtoMgr.NMIJoinDown

Description

An NMI join has gone down.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` An NMI join has gone down. NM entity index = `%p2%` NM PID = `%p3%` Receiver handle = `%p4%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32
p4	uInt32

OSPFv3.ProtoMgr.DropDDIncrctState

Description

DATABASE DESCRIPTION packet received in incorrect neighbor state. This is most likely because an interface has restarted without the neighbor noticing, or because the packet is multicast. Packet is thrown away.

Remedy

Contact support for advice.

Severity

Debug-Summary

Message Text

DB DESCRIPTION packet received in incorrect state `%p1%`. Packet data = `%p2%`

Message Parameters

Name	Type
p1	uInt8
p2	HexPktByteArray

OSPFv3.ProtoMgr.RecvDDAfterTimerExp

Description

DB DESCRIPTION packet received after dd timer pop. Adjacency is restarted.

Remedy

This is an unexpected condition. Restart the process. If that does not help contact technical support with the output of "show tech".

Severity

Error

Message Text

DB DESCRIPTION packet received after dd timer pop. Packet data = `%p1%`

Message Parameters

Name	Type
p1	HexPktByteArray

OSPFv3.ProtoMgr.AllocIfSwtchDescFail

Description

Failed to allocate memory for an Interface Switching Descriptor. TE information for this interface will be out of date until a refresh is received.

Remedy

OSPF will recover automatically when resource becomes available.

Severity

Error

Message Text

`%p2%`: Failed to allocate memory for an Interface Switching Descriptor. Switching capability `%p1%` Interfaces IP address `%p3%`

Message Parameters

Name	Type
p1	uInt8
p2	String
p3	VarFmtByteArray

OSPFv3.ProtoMgr.AllocSRLGArrayFail

Description

Failed to allocate memory for an SRLG array. TE information for this interface will be out of date until a refresh is received.

Remedy

OSPF will recover automatically when resource becomes available.

Severity

Error

Message Text

`%p2%`: Failed to allocate memory for an SRLG array. Size of memory requested `%p1%` Interfaces IP address `%p3%`

Message Parameters

Name	Type
p1	sInt32
p2	String
p3	VarFmtByteArray

OSPFv3.ProtoMgr.FreeRtCtrlCB

Description

A Routing Controller CB has been freed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` A Routing Controller CB has been freed for Id `%p2%`.

Message Parameters

Name	Type
p1	String
p2	DecByteArray

OSPFv3.ProtoMgr.DropLSAShort

Description

LSA received with incorrect length. Packet dropped.

Remedy

Contact support for advice.

Severity

Warning

Message Text

LSA length is too short for indicated LSA type LSA type = `%p1%` Minimum expected LSA length = `%p2%` Received LSA length = `%p3%`

Message Parameters

Name	Type
p1	uInt8
p2	uInt16
p3	uInt16

OSPFv3.ProtoMgr.UserExitRsrcFail

Description

User exit qopm_user_update_if_params encountered a resource shortage. The interface opaque parameters for this interface may be out of date. OSPF will refresh its interface information from the I3 stub.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

qopm_user_update_if_params reported a resource shortage on an interface (`%p1%`). Interface IP address `%p2%` Opaque data `%p3%`

Message Parameters

Name	Type
p1	String
p2	VarFmtByteArray
p3	HexByteArray

OSPFv3.ProtoMgr.LSAReqTmout

Description

A neighbor has failed to respond to our request for LSAs within the configured timeout period (ospfPmIfRetransInterval). OSPF will resend the request for the LSAs and reduce the number of LSAs that are requested in subsequent packets. This event is logged as re-requests should be avoided where possible as they can considerably increase the time taken for adjacency formation.

Remedy

Check for network issues that might be preventing the remote router from responding in a timely fashion.

Severity

Debug-Summary

Message Text

`%p1% %p2% %p3% %p4%` LSA request has timed out and will be retried. Num LSAs requested `%p5%` Num LSAs that must be re-requested `%p6%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	sInt16
p6	sInt32

OSPFv3.ProtoMgr.DropLSAInvAge

Description

LSA received with invalid age. LSA dropped.

Remedy

Monitor neighbor adjacencies. If there are any issues with adjacency formation then contact support for advice.

Severity

Warning

Message Text

LSA received with invalid age. LS type = `%p1%` Source router = `%p2%` Received age = `%p3%` LS ID = `%p4%`

Message Parameters

Name	Type
p1	uInt8
p2	DecByteArray
p3	uInt16
p4	DecByteArray

OSPFv3.ProtoMgr.DropHelloSrcIPCflct

Description

HELLO packet received with an IP source address that clashes with the address of an existing neighbor (on a different interface). HELLO packet dropped.

Remedy

Check configuration of routers. If this does not solve problem, contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` `%p2%` Received Hello packet dropped because source IP address clashes with existing neighbor. Diagnostic information for support: Existing neighbor's router ID = `%p3%` IF index of receiving interface = `%p4%` IP address of receiving interface = `%p5%` Network mask of receiving interface = `%p6%` Router ID in HELLO packet = `%p7%` Source address in HELLO packet = `%p8%`

Message Parameters

Name	Type
p1	String
p2	String
p3	DecByteArray
p4	String
p5	VarFmtByteArray
p6	DecByteArray

Name	Type
p7	DecByteArray
p8	VarFmtByteArray

OSPFv3.ProtoMgr.RtUpdtTimerExpNoNbr

Description

The initial wait time before sending routes to RTM has expired but there are no neighbors in fully adjacent state. OSPF will not send any routing information to OSPF, network information to OSPF, or any TE information to OSPF at this time.

Remedy

Check other problem determination logs for errors that may be preventing adjacencies being formed with OSPF neighbors.

Severity

Debug-Summary

Message Text

`%p1%` Route update timer has expired but there are no adjacent neighbors. Num. neighbors = `%p2%` Num. neighbors in state FULL = `%p3%` Num. 'friend' neighbors = `%p4%` Num. 'slow' neighbors = `%p5%`

Message Parameters

Name	Type
p1	String
p2	uInt16
p3	uInt16
p4	uInt16
p5	uInt16

OSPFv3.ProtoMgr.IgnAddrNonAcptType

Description

A local internetwork address passed to OSPF is not of an acceptable type for the mode (OSPFv2 or OSPFv3) in which OSPF is running. Either the address is IPv4 format when

OSPFv3 is running, or the address is IPv6 format when OSPFv2 is running. OSPF will ignore the address.

Remedy

None required unless the address should be accepted by OSPF. In this case contact support.

Severity

Debug-Summary

Message Text

A local internetwork address passed to OSPF is not of acceptable type (either an IPv4 address when running in IPv6 mode, or an IPv6 address in IPv4 mode). Address type `%p1%` Address `%p2%`

Message Parameters

Name	Type
p1	uInt8
p2	VarFmtByteArray

OSPFv3.ProtoMgr.NbrRmn2Way

Description

An OSPF neighbor has established bi-directional communication with the local router but is not going to become adjacent. The local router has determined that there is currently no need to form a full adjacency by exchanging databases with this neighbor. This neighbor will, therefore, remain in two-way state.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` `%p2%` `%p3%` `%p4%` neighbor does not need to become adjacent.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.ProtoMgr.NbrDBExchgDone

Description

Database exchange with an adjacent OSPF neighbor has been completed. The adjacency with this neighbor is now fully up.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p3%` Database exchange with an adjacent OSPF neighbor has been completed. The adjacency with this neighbor is now fully up. Neighbor router ID `%p1%` Neighbor IP address `%p2%` Interface category `%p4%` Interface neighbor `%p5%`

Message Parameters

Name	Type
p1	DecByteArray
p2	VarFmtByteArray
p3	String
p4	String
p5	String

OSPFv3.ProtoMgr.SuprsPktMultiLocIf

Description

An OSPF protocol packet has been received from another local interface to the same link as the receiving interface. OSPF will suppress the sending of OSPF protocol packets from the receiving interface as only one interface should be used for each link. See RFC2328, appendix F, method 2 and RFC5340, 4.9.

Remedy

None required.

Severity

Debug-Summary

Message Text

`%p1%` will suppress the sending of OSPF protocol packets through the indicated interface as there are multiple local interfaces to the same link. Suppressed interface = `%p2%` Sending interface = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.DropPktFmSuprsIf

Description

A received OSPF protocol packet has been dropped as the receiving interface is one of a set of local interfaces to the same link and is currently not in use for sending or receiving OSPF packets. OSPF will suppress the sending of OSPF protocol packets from the receiving interface as only one interface should be used for each link. See RFC2328, appendix F, method 2 and RFC5340, 4.9.

Remedy

None required.

Severity

Debug-Summary

Message Text

`%p1%` `%p2%` OSPF packet dropped because it was received on a suppressed interface. interface in use to this link = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.DeactvPrefIfPktNotSuprs

Description

An interface is being deactivated that was previously the preferred interface from a set of local interfaces to the same link. OSPF will no longer suppress the sending and receiving of OSPF protocol packets from this local interfaces to the same link. See RFC2328, appendix F, method 2 and RFC5340, 4.9.

Remedy

None required.

Severity

Debug-Summary

Message Text

`%p1%`: An interface is being deactivated that was previously the preferred interface from a set of local interfaces to the same link. Therefore, sending and receiving OSPF packets is no longer suppressed for this interface. Unsuppressed interface = `%p2%` Deactivated interface = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.DropHelloLocPlcy

Description

HELLO packet from unknown neighbor has been discarded due to local policy. HELLO packet dropped and no neighbor adjacency created.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%` Received Hello packet dropped because of local policy. Source address = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	VarFmtByteArray

OSPFv3.ProtoMgr.SegPktGTIfMTU

Description

The MTU size configured on an interface is less than the size of an OSPF message to be sent through that interface. The OSPF message is segmented by the IP stack.

Remedy

Check the configuration of the MTU size. If this does not solve the problem then please contact support.

Severity

Debug-Summary

Message Text

`%p1%%p2%`: A message is larger than the configured MTU size for the interface MTU size configured for interface = `%p3%` Minimum size for OSPF message = `%p4%`

Message Parameters

Name	Type
p1	String
p2	String
p3	uInt16
p4	uInt16

OSPFv3.ProtoMgr.I3NtfyIfAddrDel

Description

OSPF has been told over the I3 interface that an interface address has been deleted. OSPF will delete the corresponding address, if it exists.

Remedy

None required.

Severity

Info

Message Text

`%p1%%p2%`: OSPF has been told over the I3 interface that an interface address has been deleted. Address = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	HexColByteArray

OSPFv3.ProtoMgr.I3NtfyNewUpdtIfAddr

Description

OSPF has been told over the I3 interface about a new address on an interface, or about updated attributes of an existing address. OSPF will attempt to process the new or updated address.

Remedy

None required.

Severity

Info

Message Text

`%p1%%p2%`: OSPF has been told over the I3 interface about a new address on an interface, or about updated attributes of an existing address. Address = `%p3%` Scope ID = `%p4%` Prefix length = `%p5%` Remote router address = `%p6%` Address use flags = `%p7%`

Message Parameters

Name	Type
p1	String
p2	String
p3	HexColByteArray
p4	sInt32
p5	uInt8
p6	HexColByteArray
p7	xInt8

OSPFv3.ProtoMgr.RxDDPktMismatchIfMTU

Description

Initial DB DESCRIPTION packet received with invalid interface MTU. The packet will be accepted. An adjacency may form with this neighbor but might fail later due to the MTU size mismatch

Remedy

None required.

Severity

Info

Message Text

DB DESCRIPTION packet received with mismatched interface MTU size `%p1%` but it will be accepted because the MtuIgnore MIB option is set to true. An adjacency may form but it could fail later due to the mismatch. Expected MTU size = `%p2%` Neighbor router ID = `%p3%` Packet data = `%p4%`

Message Parameters

Name	Type
p1	uInt16
p2	uInt16
p3	DecByteArray
p4	HexPktByteArray

OSPFv3.ProtoMgr.IgnI3IfAddrIncrctType

Description

Address configured on I3 interface with unsupported address type. Address configuration ignored.

Remedy

Check address is configured with correct address type.

Severity

Error

Message Text

Address configured over I3 with incorrect address type Local endpoint ID = %p1% Interface = %p2% Address type = %p3% Address = %p4%

Message Parameters

Name	Type
p1	HexByteArray
p2	String
p3	sInt8
p4	HexByteArray

OSPFv3.ProtoMgr.IfFSMStateChg

Description

An interface FSM has changed state.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

%p1% %p2% Interface FSM has changed state. FSM input = %p3% (%p4%) Old FSM state = %p5% (%p6%) New FSM state = %p7% (%p8%) FSM action = %p9% (%p10%)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	uInt8

Name	Type
p5	String
p6	uInt8
p7	String
p8	uInt8
p9	String
p10	uInt8

OSPFv3.ProtoMgr.NMIFSMStateChg

Description

An NM interface FSM has changed state.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` NM Interface FSM has changed state. FSM input = `%p3%` (`%p4%`) Old FSM state = `%p5%` (`%p6%`) New FSM state = `%p7%` (`%p8%`) FSM action = `%p9%` (`%p10%`)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	uInt8
p5	String
p6	uInt8
p7	String
p8	uInt8
p9	String
p10	uInt8

OSPFv3.ProtoMgr.NMIGetFSMStateChg

Description

An NM interface Get FSM has changed state.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` NM Interface Get FSM has changed state. FSM input = `%p3%` (`%p4%`) Old FSM state = `%p5%` (`%p6%`) New FSM state = `%p7%` (`%p8%`) FSM action = `%p9%` (`%p10%`)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	uInt8
p5	String
p6	uInt8
p7	String
p8	uInt8
p9	String
p10	uInt8

OSPFv3.ProtoMgr.DropHelloAdmin

Description

A new HELLO packet from a neighbor has been discarded. The HELLO packet is dropped and the neighbor adjacency is not activated.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2% %p3%` A HELLO packet has been discarded for administrative reasons.

Message Parameters

Name	Type
p1	String
p2	String
p3	VarFmtByteArray

OSPFv3.ProtoMgr.NMNbrFSMStateChg

Description

An NM neighbor FSM has changed state.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1% %p2% %p3% %p4%` NM neighbor FSM has changed state. FSM input = `%p5%` (`%p6%`) Old FSM state = `%p7%` (`%p8%`) New FSM state = `%p9%` (`%p10%`) FSM action = `%p11%` (`%p12%`)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	String
p6	uInt8

Name	Type
p7	String
p8	uInt8
p9	String
p10	uInt8
p11	String
p12	uInt8

OSPFv3.ProtoMgr.NMNbrGetFSMStateChg

Description

An NM neighbor Get FSM has changed state.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1% %p2% %p3% %p4%` NM neighbor Get FSM has changed state. FSM input = `%p5%` (`%p6%`) Old FSM state = `%p7%` (`%p8%`) New FSM state = `%p9%` (`%p10%`) FSM action = `%p11%` (`%p12%`)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	String
p6	uInt8
p7	String
p8	uInt8
p9	String
p10	uInt8

Name	Type
p11	String
p12	uInt8

OSPFv3.ProtoMgr.VlfNMChgOvrFSMStateChg

Description

An virtual interface NM changeover FSM has changed state.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` virtual interface NM changeover FSM has changed state. FSM input = `%p3%` (`%p4%`) Old FSM state = `%p5%` (`%p6%`) New FSM state = `%p7%` (`%p8%`) FSM action = `%p9%` (`%p10%`)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	uInt8
p5	String
p6	uInt8
p7	String
p8	uInt8
p9	String
p10	uInt8

OSPFv3.ProtoMgr.ProcNbrFSMIn

Description

A neighbor FSM has processed an input.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` `%p3%` `%p4%` neighbor FSM has processed an input. FSM input = `%p5%` (`%p6%`) Old FSM state = `%p7%` (`%p8%`) New FSM state = `%p9%` (`%p10%`) FSM action = `%p11%` (`%p12%`)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	String
p6	uInt8
p7	String
p8	sInt32
p9	String
p10	sInt32
p11	String
p12	uInt8

OSPFv3.ProtoMgr.FloodGrcflRstrtRsrcFail

Description

Resource failure prevented flooding of an LSA during graceful restart. This may cause the current planned or unplanned graceful restart to fail.

Remedy

Increase the amount of memory available to the system. If the problem persists then please contact support with details of the problem.

Severity

Warning

Message Text

`%p1% %p2%` LSA not flooded during graceful restart because of resource failure
Diagnostic information for support: LSA header = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	HexByteArray

OSPFv3.ProtoMgr.DropPktNMIDeactvTxIf

Description

An packet has been dropped because the sending interface is deactivating over the NMI.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1% %p2%` packet dropped because interface is deactivating over the NMI. signal type = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	xInt32

OSPFv3.ProtoMgr.IfIntErr

Description

Interface has failed because of an internal error. Interface becomes inactive.

Remedy

Check for other logs that indicate the cause of the error, for example logs of resource failures. If the problem persists then please contact support.

Severity

Error

Message Text

`%p1% %p2%` Interface failed because of an internal error.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.NbrCommFailIntErr

Description

Communication with a neighbor has failed because of an internal error. An adjacency cannot be set up with the neighbor.

Remedy

Check for other logs that indicate the cause of the error, for example logs of resource failures. If the problem persists then please contact support.

Severity

Error

Message Text

`%p1% %p2% %p3% %p4%` Communication with neighbor has failed because of an internal error.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.ProtoMgr.ActRsrcFail

Description

An action has failed because of resource shortage. The operation of OSPF may be affected. For example, adjacencies may not be set up with neighbors.

Remedy

Check for other logs that indicate the action that has failed. Allocate more resources to the OSPF system. If the problem persists then please contact support.

Severity

Error

Message Text

`%p1%` An action has failed because of resource shortage.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.DropHelloRxVIfChg

Description

A Hello packet has been dropped because the virtual interface on which it was received is in the process of being switched to a different NM instance.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1% %p2% %p3%` Hello packet dropped because virtual interface is in a transient state.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.DropHelloRxIfDeactv

Description

A Hello packet has been dropped because the interface on which it was received is either deactivating or inactive.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1% %p2%` Hello packet dropped because the receiving interface is not active.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.ActvIfFail

Description

An interface could not be activated because part of the system is not ready. This state should be self-clearing.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1% %p2%` Interface cannot be activated at present.

Message Parameters

Name	Type
p1	String
p2	VarFmtByteArray

OSPFv3.ProtoMgr.CfgIPv6AddrRsrcFail

Description

Resource failure preventing configuration of an IPv6 address. OSPF will not function fully.

Remedy

Increase the amount of memory available to the system. If the problem persists then please contact support with details of the problem.

Severity

Warning

Message Text

`%p1%` `%p2%` Resource failure during configuration of an IPv6 address. Address = `%p3%` Scope ID = `%p4%` Prefix length = `%p5%`

Message Parameters

Name	Type
p1	String
p2	String
p3	HexColByteArray
p4	sInt32
p5	uInt8

OSPFv3.ProtoMgr.DropHelloVldtChkFail

Description

A Hello packet has been dropped because it failed validation checks. Either the Hello is labeled as being from the local router, or no suitable interface could not be found. This can happen in race conditions, and is not considered an error.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` Hello packet failed validation checks, and was dropped. Router ID in Hello packet = `%p2%`

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.IgnIGPShortcutFuncDsbl

Description

IGP shortcut interface information from the I3 stub has been ignored because the IGP shortcut function is currently disabled.

Remedy

None required.

Severity

Info

Message Text

`%p1%` has ignored the IGP shortcut `%p2%` - IGP shortcut function is disabled. IGP shortcut interface next hop address = `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	VarFmtByteArray

OSPFv3.ProtoMgr.IgnLSAMinArrvIntv

Description

A received LSA is being ignored because it was previously received within the last ospfPmEntMinLsArrival/ ospfv3PmEntMinLsArrival milliseconds.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` has ignored an LSA because it was previously received within the last minimum LSA arrival interval milliseconds. Milliseconds since last received = `%p2%` Minimum LSA arrival interval = `%p3%` Neighbor = `%p4%` LS ID of the LSA = `%p5%` Advertising router = `%p6%` LS Type = `%p7%`

Message Parameters

Name	Type
p1	String
p2	sInt32
p3	sInt32
p4	String
p5	DecByteArray
p6	DecByteArray
p7	uInt8

OSPFv3.ProtoMgr.LSANotFloodMinArrvIntv

Description

An LSA has not been flooded as it has been flooded within the last ospfPmEntMinLsArrival/ospfv3PmEntMinLsArrival milliseconds.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` has not flooded an LSA as it has been flooded within the last minimum LSA arrival interval milliseconds. Milliseconds since last flood = `%p2%` Minimum LSA arrival interval = `%p3%` Neighbor = `%p4%` LS ID of the LSA = `%p5%` Advertising router = `%p6%` LS Type = `%p7%`

Message Parameters

Name	Type
p1	String
p2	sInt32
p3	sInt32
p4	String
p5	DecByteArray
p6	DecByteArray
p7	uInt8

OSPFv3.ProtoMgr.RxLSAOld

Description

An LSA has been received that is less recent than the database copy.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` has received an LSA that is less recent than the copy in its database. Received LSA header = `%p2%` Database LSA header = `%p3%`

Message Parameters

Name	Type
p1	String
p2	HexByteArray
p3	HexByteArray

OSPFv3.ProtoMgr.TxDlayGTMinOrigIntv

Description

PM has been activated with the transmit timer delay of an interface configured to be greater than the minimum LSA origination interval. Multiple copies of the same LSA may get bundled into the same OSPF packet, causing the second and subsequent copies to be dropped by the receiving neighbor.

Remedy

Change the configuration so that the transmit timer delay is not greater than the minimum LSA origination interval.

Severity

Info

Message Text

`%p1%` `%p2%` The transmit timer delay `%p3%` is greater than the minimum LSA origination interval `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	sInt32
p4	sInt32

OSPFv3.ProtoMgr.RfrshIntvLTMinOrig

Description

PM has been activated with the LSA refresh interval of an interface configured to be smaller than the minimum LSA origination interval. All LSA refreshes on the interface will be delayed.

Remedy

Change the configuration so that the LSA refresh interval is not smaller than the minimum LSA origination interval.

Severity

Info

Message Text

`%p1% %p2%` The LSA refresh interval `%p3%` has been configured to be smaller than the minimum LSA origination interval `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	sInt32
p4	sInt32

OSPFv3.ProtoMgr.DropHelloMultiAreaIfVIf

Description

A hello packet that matches both a multi-area interface and a virtual interface was received. The hello packet is dropped.

Remedy

Change interface configuration so that hello packets for the two interfaces can be distinguished.

Severity

Warning

Message Text

`%p1% %p2% %p3%` A hello packet matched both a multi-area interface and a virtual interface.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.AddRemLSAGlobAgeList

Description

LSA added to or removed from global age list.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%`: LSA added to or removed from global age list. LSA CB pointer = `%p2%` Age array index for LSA = `%p3%` Current age index = `%p4%` Delayed LSAs present = `%p5%` Self originated present = `%p6%` LSA CB flags = `%p7% %p8%` LSA header = `%p9%` Added? = `%p10%`

Message Parameters

Name	Type
p1	String
p2	Ptr
p3	uInt16
p4	uInt16
p5	uInt16
p6	sInt
p7	xInt8
p8	xInt8
p9	HexByteArray
p10	sInt

OSPFv3.ProtoMgr.SelfOrigLSAAgeOutIntErr

Description

An LSA is marked as being a self-originated LSA, but is being aged out. This should never happen - self-originated LSAs should always be regenerated before this happens. OSPF will terminate.

Remedy

This represents an internal logic error. Contact OSPF customer support with details of the problem.

Severity

Error

Message Text

`%p1%`: An internal logic error has caused a self-originated LSA to age out. LSA CB pointer = `%p2%` Delayed LSAs present = `%p3%` Self originated present = `%p4%` LSA CB flags = `%p5%` `%p6%` LSA header = `%p7%`

Message Parameters

Name	Type
p1	String
p2	Ptr
p3	uInt16
p4	sInt
p5	xInt8
p6	xInt8
p7	HexByteArray

OSPFv3.ProtoMgr.RtrLSALinkCostZero

Description

The OSPF route calculation has encountered a router LSA advertising a link with a metric of 0. This is not a valid value, as it can lead to loops in the SPF calculation. To prevent loops in the routing calculation, OSPF will treat the link as having a metric of 1.

Remedy

Check the interface configuration on the router advertising the LSA.

Severity

Warning

Message Text

`%p1%` `%p2%` is advertising a non-stub link in a router LSA with a metric of 0.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.AddRemLSARtEntLSAList

Description

LSA added to or removed from a route entry's LSA list.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` LSA added to or removed from a route entry's LSA list. Added? = `%p2%` Route entry CB pointer = `%p3%` Destination ID = `%p4%` Associated area = `%p5%` Address mask (OSPFv2 only) = `%p6%` Prefix (OSPFv3 only) = `%p7%` LSA CB pointer = `%p8%` LSA LS ID = `%p9%` LSA advertising router = `%p10%` LSA sequence number = `%p11%` LSA checksum = `%p12%`

Message Parameters

Name	Type
p1	String
p2	sInt
p3	Ptr
p4	DecByteArray
p5	xInt32
p6	DecByteArray
p7	VarFmtByteArray
p8	Ptr

Name	Type
p9	DecByteArray
p10	DecByteArray
p11	HexByteArray
p12	HexByteArray

OSPFv3.ProtoMgr.FullRtCalcStrt

Description

OSPF Protocol Manager is starting a full route calculation.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` PM is starting a full routing calculation.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.FullRtCalcDone

Description

OSPF Protocol Manager has completed a full route calculation.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` PM has completed a full routing calculation.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.IncRtCalcStrt

Description

OSPF Protocol Manager is starting an incremental route calculation.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` PM is starting an incremental route calculation.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.IncRtCalcNotCmplt

Description

OSPF Protocol Manager was unable to complete its incremental route calculation. A new full route calculation will be started.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` PM could not complete an incremental route calculation.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.FullRtCalcPause

Description

OSPF Protocol Manager has paused a full route calculation.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` PM has paused a full routing calculation. Calculation state: `%p2%`

Message Parameters

Name	Type
p1	String
p2	xInt8

OSPFv3.ProtoMgr.IncRtCalcDone

Description

OSPF Protocol Manager has completed an incremental route calculation.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` PM has completed an incremental route calculation.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.FndPotentIGPShortcut

Description

The RC subcomponent has found a potential IGP shortcut.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` RC has found a potential IGP shortcut. `%p2%`, egress address `%p3%`, cost `%p4%`

Message Parameters

Name	Type
p1	String
p2	String
p3	VarFmtByteArray
p4	uInt32

OSPFv3.ProtoMgr.SetIGPShortcutCostMin

Description

The metric for an IGP shortcut has been set to the minimum valid value. This is because the configured relative metric gives a total calculated metric value less than the minimum valid value.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` has set the metric for IGP shortcut `%p2%` to the minimum valid value `%p3%`. Diagnostic information: egress address `%p4%` configured metric `%p5%` path cost to egress `%p6%`

Message Parameters

Name	Type
p1	String
p2	String
p3	uInt32
p4	VarFmtByteArray
p5	sInt32
p6	uInt32

OSPFv3.ProtoMgr.DlayLSAOrig

Description

Origination of an LSA has been delayed.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%`: Origination of an LSA has been delayed. LSA CB pointer = `%p2%` Age array index for LSA = `%p3%` Current age index = `%p4%` System time when LSA was last flooded = `%p5%` Minimum LSA origination interval = `%p6%` LSA delay interval = `%p9%` Current system time = `%p8%` LSA delay timer duration = `%p7%` Hold LSA origination interval = `%p10%` Maximum LSA origination interval = `%p11%` LSA throttling stage = `%p12%`

Message Parameters

Name	Type
p1	String
p2	Ptr
p3	uInt16
p4	uInt16
p5	sInt32
p6	sInt32
p7	sInt32
p8	sInt32
p9	sInt32
p10	sInt32
p11	sInt32
p12	xInt16

OSPFv3.ProtoMgr.OrigDlayLSA

Description

A delayed LSA is being originated.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%`: A delayed LSA is being originated. LSA CB pointer = `%p2%` LSA type = `%p3%` LS ID = `%p4%` Age array index for LSA = `%p5%` Current age index = `%p6%` System time when LSA was last flooded = `%p7%` Minimum LSA origination interval = `%p8%` LSA delay interval = `%p10%` Current system time = `%p9%`

Message Parameters

Name	Type
p1	String
p2	Ptr
p3	uInt8
p4	DecByteArray
p5	uInt16
p6	uInt16
p7	sInt32
p8	sInt32
p9	sInt32
p10	sInt32

OSPFv3.ProtoMgr.AreaRfrshIntvLTMinOrig

Description

PM has been activated with the LSA refresh interval of an area configured to be smaller than the minimum LSA origination interval. All LSA refreshes to the area will be delayed.

Remedy

Change the configuration so that the LSA refresh interval is not smaller than the minimum LSA origination interval.

Severity

Info

Message Text

`%p1%` area `%p2%` The LSA refresh interval `%p3%` has been configured to be smaller than the minimum LSA origination interval `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	sInt32
p4	sInt32

OSPFv3.ProtoMgr.LSAOrigDlayTimerStrt

Description

The LSA origination delay timer is being started.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%`: The LSA origination delay timer is being started. LSA CB pointer = `%p2%` LSA type = `%p3%` LS ID = `%p4%` Age array index for LSA = `%p5%` Current age index = `%p6%` System time when LSA was last flooded = `%p7%` Minimum LSA origination interval = `%p8%` LSA delay interval = `%p10%` Current system time = `%p9%` LSA delay timer duration = `%p11%`

Message Parameters

Name	Type
p1	String
p2	Ptr
p3	uInt8
p4	DecByteArray
p5	uInt16
p6	uInt16
p7	sInt32
p8	sInt32
p9	sInt32

Name	Type
p10	sInt32
p11	sInt32

OSPFv3.ProtoMgr.LSAOrigDlayTimerStop

Description

The LSA origination delay timer has been stopped.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%`: The LSA origination delay timer has been stopped. Current age index = `%p2%` Age array index for delayed LSAs = `%p3%` Time last flood of LSA that started timer = `%p4%` Minimum LSA origination interval = `%p5%` Delay interval of LSA that started timer = `%p6%` Current system time = `%p7%`

Message Parameters

Name	Type
p1	String
p2	uInt16
p3	uInt16
p4	sInt32
p5	sInt32
p6	sInt32
p7	sInt32

OSPFv3.ProtoMgr.AllocRILSAFail

Description

Failed to allocate memory to build an RI LSA. The new or changed RI LSA will not be advertised and the old RI LSA will not be flushed.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

Failed to allocate memory for an RI LSA. New LSA cannot be advertised. Size of requested memory = `%p1%`

Message Parameters

Name	Type
p1	uInt32

OSPFv3.ProtoMgr.DropPktFmOldPCEInstc

Description

PM has dropped a packet which appeared to come from an old instance of PCE.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` dropped packet from old instance of PCE. Receiver handle = `%p2%`

Message Parameters

Name	Type
p1	String
p2	uInt32

OSPFv3.ProtoMgr.InitPDIJoinOK

Description

Join to PDI entity has initialized successfully. Join successful.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` has successfully initialized the join to a PDI entity. Receiver handle = `%p2%` Partner process = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

OSPFv3.ProtoMgr.TermPDIJoinOK

Description

Join to PDI entity has terminated. Join terminated.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

The join to a PDI entity has terminated. PM entity: `%p1%` Receiver handle = `%p2%` Partner process = `%p3%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	uInt32

OSPFv3.ProtoMgr.AllocPCEDTLVFail

Description

Failed to allocate memory to store a PCED TLV. The new or changed PCED TLV will not be advertised. OSPF will retry if there is a subsequent change to the information to advertise in the PCED TLV.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

`%p1%` failed to get memory for a PCED TLV. New TLV can't be advertised. Size of requested memory = `%p2%` Scope = `%p3%` Area = `%p4%`

Message Parameters

Name	Type
p1	String
p2	uInt32
p3	sInt
p4	DecByteArray

OSPFv3.ProtoMgr.ParseRILSAFail

Description

Failed to parse a RI LSA. The LSA will be dropped.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

`%p1%` failed to parse RI LSA. The fields below supply more information on this problem. Advertising router `%p2%` Incorrect length `%p3%` Sub-TLV type `%p4%` Sub-TLV length `%p5%` Mandatory TLV not present `%p6%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	sInt
p4	sInt
p5	sInt
p6	sInt

OSPFv3.ProtoMgr.RejctLSALinkSetFmtErr

Description

An LSA is being rejected because of a formatting error in a link set contained within it. An exception log will be made after this current log; the purpose of this log is to trace out the erroneous link set for ease of investigation. See subsequent exception log (281).

Remedy

See subsequent exception log (281).

Severity

Debug-Data

Message Text

`%p1%` LSA has a formatting error in a link set that it contains. Link set contents: `%p2%`

Message Parameters

Name	Type
p1	String
p2	HexByteArray

OSPFv3.ProtoMgr.SlctPrefAddr

Description

An address has been selected as the preferred address for an area. This address is used as follows. If used as the source IP address for any packets sent through virtual interfaces that transit the area then the address will be included as the first address in the Intra-Area-Prefix-LSA(s) for the area.

Remedy

None required.

Severity

Debug-Verbose

Message Text

`%p1%` `%p2%` preferred address is `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	VarFmtByteArray

OSPFv3.ProtoMgr.PrefAddrUnavailArea

Description

No address is available to use as the preferred address for an area. Virtual interfaces that transit the area will not activate. Locally originated NSSA LSAs will not automatically include a routable forwarding address.

Remedy

Configure a global scope unicast IPv6 address on an OSPFv3 loopback interface associated with the area.

Severity

Error

Message Text

`%p1% %p2%` Configure a global scope unicast IPv6 address on a loopback interface in this area.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.PrefAddrNotRqr

Description

No preferred address is required for this area because there are no active transiting virtual interfaces.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1% %p2%` no preferred address is required.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.NSSAXlateStateChg

Description

The NSSA translator state for an area has changed. The OSPF protocol will operate according to the new translator state.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` now has NSSA translator state `%p2%` in area `%p3%` (was `%p4%`)

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.ProtoMgr.PDIRfrshTimerStrt

Description

The PDI refresh timer has been started.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` PDI refresh timer has started for a PDI join. Master index = `%p2%`

Message Parameters

Name	Type
p1	String
p2	uInt32

OSPFv3.ProtoMgr.PDIRfrshTimerExp

Description

The PDI refresh timer has popped.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` PDI refresh timer popped for a PDI join. Master index = `%p2%`

Message Parameters

Name	Type
p1	String
p2	uInt32

OSPFv3.ProtoMgr.AllocPDISrvrUpdtFail

Description

Memory shortage meaning that a new server advertised across across a PDI join has not been processed. The server will not be advertised across the network and as a result PCCs will not discover and use the PCE.

Remedy

Make more memory available to the system.

Severity

Warning

Message Text

`%p1%` failed to allocate memory when processing a PDI server update. The server will not be advertised. Server IP address = `%p2%` Scope = `%p3%` Area = `%p4%`

Message Parameters

Name	Type
p1	String
p2	VarFmtByteArray
p3	uInt8
p4	DecByteArray

OSPFv3.ProtoMgr.SuprsNSSAXlateChgTrap

Description

OSPF suppressed an NSSA translator state change MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` `%p2%`: suppressed trap: NSSA translator state now `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.Type7LSANotXlate

Description

A type-7 LSA cannot be translated.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` A type-7 LSA cannot be translated. LSA header = `%p2%`

Message Parameters

Name	Type
p1	String
p2	HexByteArray

OSPFv3.ProtoMgr.ChkFwdAddrRch

Description

The reachability of the forwarding address for a Type-5, AS-External LSA, or type-7, NSSA, LSA has been determined.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` Is the forwarding address `%p2%` (route CB `%p3%`) reachable? `%p4%`

Message Parameters

Name	Type
p1	String
p2	VarFmtByteArray
p3	Ptr
p4	sInt

OSPFv3.ProtoMgr.ChkLSAOrigRch

Description

The reachability of the originator of an LSA has been determined.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` Is the LSA originator `%p2%` (route CB `%p3%`) reachable? `%p4%` via path type `%p5%` (intra-area reachable? `%p6%`)

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	Ptr
p4	sInt
p5	uInt8
p6	sInt

OSPFv3.ProtoMgr.IgnInvASEOrNSSALSA

Description

OSPF has received an invalid AS-External or NSSA LSA. OSPF will not create a route for or (in the case of an NSSA LSA) translate the invalid LSA.

Remedy

Check the configuration of the advertising router.

Severity

Warning

Message Text

`%p1%` Ignoring an invalid AS-External or NSSA LSA Diagnostic information for support: Advertising `%p2%` Forwarding address `%p3%` Destination prefix `%p4%` network mask / prefix length `%p5%`

Message Parameters

Name	Type
p1	String
p2	String
p3	VarFmtByteArray
p4	VarFmtByteArray
p5	HexByteArray

OSPFv3.ProtoMgr.FlushLSAGrcflRstrtClnup

Description

LSA being flushed as part of graceful restart garbage collection.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%p1%` LSA being flushed as part of graceful restart garbage collection. LSA CB pointer = `%p2%` LSA entry type = `%p3%` LSA flags = `%p4%` `%p5%` LSA header = `%p6%`

Message Parameters

Name	Type
p1	String
p2	Ptr
p3	uInt8
p4	xInt8
p5	xInt8
p6	HexByteArray

OSPFv3.ProtoMgr.InterAreaRtStatusChg

Description

This router's role in inter-area routing has changed. Either the Area Border Router status has changed, or the presence of an active backbone connection has changed. The origination / flushing of summary LSAs and the calculation of inter-area routes will change accordingly.

Remedy

None required.

Severity

Info

Message Text

Inter-area routing status has changed. Area Border Router = `%p1%` Active Backbone Connection = `%p2%`

Message Parameters

Name	Type
p1	sInt
p2	sInt

OSPFv3.ProtoMgr.DeactvAllIfNoIPAddr

Description

No IP addresses are currently configured to OSPF. OSPF deactivates all interfaces as at least one IP address must be available for OSPF packets to be sent on unnumbered interfaces.

Remedy

Configure an IP address for use by OSPF, for example an IP address on a loopback interface.

Severity

Error

Message Text

`%p1%` Deactivated all interfaces because no IP addresses are configured and at least one IP address is required.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.FreeLSACB

Description

Memory to store an LSA has been freed.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

%p1% Destroyed LSA CB for %p7% LSA LS Type = %p8% LSA LS ID = %p3% LSA advertising router = %p4% LSA sequence number = %p5% LSA checksum = %p6% LSA CB pointer = %p2%

Message Parameters

Name	Type
p1	String
p2	Ptr
p3	DecByteArray
p4	DecByteArray
p5	HexByteArray
p6	HexByteArray
p7	String
p8	uInt8

OSPFv3.ProtoMgr.ExitHelpNbrMIBDeactv

Description

We are in helper mode for a neighbor that is undergoing a hitless restart and the neighbor has been deactivated through the MIB. OSPF has exited helper mode for a neighbor.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

OSPF has exited helper mode because the neighbor has been deactivated in the MIB. Our router ID = %p1% Neighbor's router ID = %p2%

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray

OSPFv3.ProtoMgr.EnterHelpNbrRstrt

Description

We have received a Grace LSA from a neighbor that is undergoing a hitless restart. OSPF has entered helper mode for a neighbor.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

OSPF has entered helper mode for a restarting neighbor. Our router ID = `%p1%` Neighbor's router ID = `%p2%` Interface = `%p3%`

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray
p3	String

OSPFv3.ProtoMgr.RecvRtMgrUnexpRtType

Description

OSPF received an RTM route with an unexpected OSPF route type. The route is treated as a type-2 external route.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` An RTM route contains an unexpected OSPF route type. OSPF route type = `%p2%`

Message Parameters

Name	Type
p1	String
p2	xInt8

OSPFv3.ProtoMgr.FloodNonRfrshLSAHelp

Description

An LSA is being flooded which is not a simple refresh while we are in helper mode for a restarting neighbor which has strict LSA checking disabled. Nothing.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Attempted flood of non-refresh LSA to neighbor would have caused exit of helper mode but strict LSA checking is disabled. Our router ID = `%p1%` Neighbor's router ID = `%p2%`

Message Parameters

Name	Type
p1	DecByteArray
p2	DecByteArray

OSPFv3.ProtoMgr.RegNMINoRstrtIndctBuf

Description

PM failed to allocate the buffer for a restart indication IPS required for a slave join to a neighbor manager. This is likely to be because the router is out of memory. The join to the neighbor manager has failed.

Remedy

Free up memory and attempt to configure the join again.

Severity

Warning

Message Text

`%p1%` The NMI register attempt has failed because PM could not get a buffer for the restart indication for the join. Master index = `%p2%`

Message Parameters

Name	Type
p1	String
p2	uInt32

OSPFv3.ProtoMgr.AllocCfgCBfail

Description

Failed to allocate a configuration control block. The Control Block will not be created. If this operation was triggered by a MIB command then the MIB signal will be returned with a failure code. This may cause some configuration information to have to be resent.

Remedy

Investigate the source of the failure. It is probably due to a resource shortage.

Severity

Error

Message Text

`%p1%` failed to allocate control block type `%p2%` identifier `%p3%`.

Message Parameters

Name	Type
p1	String
p2	xInt32
p3	HexByteArray

OSPFv3.ProtoMgr.MinOrigIntvLTMinArrv

Description

PM has been activated with a minimum LSA origination interval smaller than its minimum LSA arrival interval. Nothing.

Remedy

Check that the configuration of the minimum LSA origination interval and minimum LSA arrival interval is consistent across the local router and its neighbors.

Severity

Info

Message Text

`%p1%` The minimum LSA origination interval `%p2%` ms is smaller than minimum LSA arrival interval `%p3%` ms.

Message Parameters

Name	Type
p1	String
p2	sInt32
p3	sInt32

OSPFv3.ProtoMgr.RfrshIntvLTMinOrigIntv

Description

PM has been activated with a minimum LSA origination interval greater than its LSA refresh interval. All LSA refreshes will be delayed.

Remedy

Change the configuration so that the LSA refresh interval is not smaller than the minimum LSA origination interval.

Severity

Info

Message Text

`%p1%` The entity LSA refresh interval `%p2%` has been configured to be smaller the minimum LSA origination interval `%p3%`.

Message Parameters

Name	Type
p1	String
p2	sInt32
p3	sInt32

OSPFv3.ProtoMgr.DtectIfIndxCflct

Description

There are network interfaces, IGP shortcuts, multi-area interfaces, virtual links or sham links with conflicting interface index values. Virtual interfaces and sham links with conflicting interface values remain inactive. Network interfaces and multi-area interfaces with inconsistent configuration remain inactive.

Remedy

Check other problem determination logs to identify all the conflicting interfaces. Ensure that interface index values are assigned avoiding conflicts.

Severity

Warning

Message Text

%p1% There is an interface index conflict for interface%p2%. Interface category: %p3% Interface: %p4%

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.ProtoMgr.RslvIfIndxCflct

Description

An interface index conflict has been resolved. Interfaces that were inactive because of conflicting interface index values are permitted to become active.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

%p1% An interface index conflict has been resolved for interface%p2%. Interface category: %p3% Interface: %p4%

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.ProtoMgr.IfIndxCflctNetIf

Description

There are network interfaces, IGP shortcuts, multi-area interfaces, virtual links or sham links with conflicting interface index values. The conflict includes a network interface. Virtual interfaces and sham links with conflicting interface values remain inactive. Network interfaces and multi-area interfaces with inconsistent configuration remain inactive.

Remedy

Check other problem determination logs to identify all the conflicting interfaces. Ensure that interface index values are assigned avoiding conflicts.

Severity

Warning

Message Text

`%p1%` There is an interface index conflict for interface`%p2%`. The interface index is assigned to a network interface.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.IfIndxCflctIGPShortcut

Description

There are network interfaces, IGP shortcuts, multi-area interfaces, virtual links or sham links with conflicting interface index values. The conflict includes an IGP shortcut. Network interfaces, multi-area interfaces, virtual links and sham links with conflicting interface index values remain inactive.

Remedy

Check other problem determination logs to identify all the conflicting interfaces. Ensure that interface index values are assigned avoiding conflicts.

Severity

Warning

Message Text

`%p1%` There is an interface index conflict for interface`%p2%`. The interface index is assigned to an IGP shortcut.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.RstrtOSPFInstcIdChg

Description

The OSPF Instance ID has been changed while the PM entity is active. The PM entity will immediately deactivate and then reactivate; all current adjacencies will be lost.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` The Instance ID has been changed from `%p2%` to `%p3%`, OSPF will restart.

Message Parameters

Name	Type
p1	String
p2	sInt32
p3	sInt32

OSPFv3.ProtoMgr.IfOperUpWaitLinkLocAddr

Description

An OSPFv3 interface is waiting to receive a link-local address before it can go operationally up. The interface will not go operationally until it receives a link local address. It will not start sending hellos or form adjacencies until it receives the link local address. This will normally be a transient state, however if it persists it indicates that the physical interface has not been configured with a link local address.

Remedy

If the interface fails to come up check that a link local address has been configured on the physical interface.

Severity

Info

Message Text

`%p1%` Interface`%p2%` is waiting for a link local address before it goes operationally up.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.NSSAXlateRoleChg

Description

The NSSA translator role for an area has been changed. The local node will update its NSSA translator state for the area according to the newly configured role.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` now has NSSA translator role `%p2%` in area `%p3%`

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.RstrtStateChg

Description

The hitless restart state has changed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` hitless restart state changed (`%p2%` -> `%p3%`), reason: `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String

OSPFv3.ProtoMgr.ExitRstrt

Description

OSPF is exiting hitless restart.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` exiting hitless restart, reason `%p2%`.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.SendNbrMgrRstrtSig

Description

OSPF is sending a Neighbor Manager restart signal

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` is sending a Neighbor Manager restart signal, master index = `%p2%`.

Message Parameters

Name	Type
p1	String
p2	uInt32

OSPFv3.ProtoMgr.SuprsPMOperStateChgTrap

Description

OSPF suppressed a PM oper state change MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%`: suppressed trap: system oper state now `%p2%`.

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.SuprsNbrHelpChgTrap

Description

OSPF suppressed a neighbor restart helper state change MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: nbr restart helper state now `%p3%`, reason `%p4%`, `%p5%`s left.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	sInt32

OSPFv3.ProtoMgr.I3NodalInfoFail

Description

The I3 stub failed to inform PM of nodal information. The OSPF stack terminates.

Remedy

Check the buffer provided for I3 to send its nodal information to PM is large enough. If the return code is ATG_I3_RC_IPS_TOO_SMALL, check the customizable constants QOPM_MAX_I3_NODAL_CONN_MATS, QOPM_MAX_I3_NODAL_LINK_SET_PAIRS and QOPM_MAX_I3_NODAL_LINK_IDS to see if they are sufficiently large.

Severity

Error

Message Text

`%p1%` The I3 stub failed to inform PM of nodal information. Return code `%p2%`

Message Parameters

Name	Type
p1	String
p2	xInt32

OSPFv3.ProtoMgr.AllocCnctMtrxCBFail

Description

Failed to allocate memory for a CB to store a connectivity matrix received from the I3 stub. Connectivity matrix information advertized by this node will be out of date until a refresh is received. A request for a refresh of all nodal information is immediately sent to the I3 stub.

Remedy

OSPF will recover automatically when resource becomes available.

Severity

Warning

Message Text

`%p1%` Failed to get memory for a connectivity matrix CB. Local endpoint ID: `%p2%` Matrix ID: `%p3%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	xInt8

OSPFv3.ProtoMgr.CreatCnctMtrxCB

Description

A connectivity matrix CB has been created.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` A connectivity matrix CB has been created. Local endpoint ID: `%p2%` Matrix ID: `%p3%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	xInt8

OSPFv3.ProtoMgr.DstryCnctMtrxCB

Description

A connectivity matrix CB has been destroyed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` A connectivity matrix CB has been destroyed. Local endpoint ID: `%p2%` Matrix ID: `%p3%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	xInt8

OSPFv3.ProtoMgr.UpdtCnctMtrxCB

Description

A connectivity matrix CB has been updated.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` A connectivity matrix CB has been replaced. Local endpoint ID: `%p2%` Matrix ID: `%p3%`

Message Parameters

Name	Type
p1	String
p2	DecByteArray
p3	xInt8

OSPFv3.ProtoMgr.SuprsIfCfgErrTrap

Description

OSPF suppressed an interface config error MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: if config error: `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.SuprsVIfCfgErrTrap

Description

OSPF suppressed a virtual interface config error MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: virt if config error: `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.SuprsIfStateChgTrap

Description

OSPF suppressed an interface state change MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: if state now `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.SuprsVIfStateChgTrap

Description

OSPF suppressed a virtual interface state change MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: virt if state now `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.SuprsNbrStateChgTrap

Description

OSPF suppressed a neighbor state change MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: nbr state now `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.SuprsVNbrStateChgTrap

Description

OSPF suppressed a virtual neighbor state change MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: virt nbr state now `%p3%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.InitIfCBRsrcFail

Description

An Interface CB cannot be initialized due to memory failure. The interface is unusable for OSPF.

Remedy

Give the system more memory to work with. If the problem persists then please contact support.

Severity

Debug-Summary

Message Text

`%p1% %p2% %p3%` Interface CB cannot be initialized due to memory failure.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.CreatIfBaseCBRsrcFail

Description

An interface base CB could not be created due to failure to get memory. The interface is unusable for OSPF.

Remedy

Give the system more memory to work with. If the problem persists then please contact support.

Severity

Debug-Summary

Message Text

`%p1% %p2% %p3%` Interface base CB cannot be created due to failure to get memory.

Message Parameters

Name	Type
p1	String
p2	String
p3	String

OSPFv3.ProtoMgr.CreatRtxTimerCB

Description

A retransmit timer CB is created.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` Retransmit timer CB `%p3%` created.

Message Parameters

Name	Type
p1	String
p2	String
p3	Ptr

OSPFv3.ProtoMgr.DstryRtxTimerCB

Description

A retransmit timer CB is destroyed.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` Retransmit timer CB `%p3%` destroyed.

Message Parameters

Name	Type
p1	String
p2	String
p3	Ptr

OSPFv3.ProtoMgr.RtxTimerStrt

Description

A retransmit timer is started.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` Retransmit timer CB `%p3%` started for `%p4%` LSAs.

Message Parameters

Name	Type
p1	String
p2	String
p3	Ptr
p4	uInt32

OSPFv3.ProtoMgr.RtxTimerCncl

Description

A retransmit timer is cancelled.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` Retransmit timer CB `%p3%` cancelled.

Message Parameters

Name	Type
p1	String
p2	String
p3	Ptr

OSPFv3.ProtoMgr.DclrLocRtrDR

Description

DR election; the local router has declared itself DR.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` `%p2%` DR election; local router, priority `%p3%`, declared itself DR in pass `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	uInt8
p4	sInt

OSPFv3.ProtoMgr.DclrLocRtrBDR

Description

DR election; the local router has declared itself BDR.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` `%p2%` DR election; local router, priority `%p3%`, declared itself BDR in pass `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	uInt8
p4	sInt

OSPFv3.ProtoMgr.ChkNbrDRElgbl

Description

DR election; check eligibility of neighbor.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%p1%` `%p2%` DR election; check eligibility of neighbor `%p3%`, `%p4%`, priority `%p5%`, state `%p6%`, restarting `%p7%` pass `%p8%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	DecByteArray
p4	String
p5	uInt8
p6	sInt32
p7	sInt
p8	sInt

OSPFv3.ProtoMgr.NewBestDRCnddt

Description

DR election; new best candidate for DR.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%p1%` `%p2%` DR election; neighbor `%p3%` is the best candidate for DR in pass `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	DecByteArray
p4	sInt

OSPFv3.ProtoMgr.NewBestBDRCnddt

Description

DR election; new best candidate for BDR.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%p1%` `%p2%` DR election; neighbor `%p3%` is the best candidate for BDR in pass `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	DecByteArray
p4	sInt

OSPFv3.ProtoMgr.DRElectDone

Description

DR election; DR and BDR have been determined. Note that, for OSPFv2, the DR and BDR are identified by their IPv4 addresses, for OSPFv3, by their 32-bit Router ID.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%` `%p2%` DR election; DR is `%p3%` BDR is `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	DecByteArray
p4	DecByteArray

OSPFv3.ProtoMgr.I3IndIPv6HdrSizZero

Description

Interface information received over the I3 has specified an IPv6 header size of 0. OSPF will reserve space in the packets it sends for the default size of IPv6 headers.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%p1%%p2%%p3%`: Zero space specified for IPv6 headers; will use default value `%p4%`.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	sInt32

OSPFv3.ProtoMgr.SuprsVNbrHelpChgTrap

Description

OSPF suppressed a virtual neighbor restart helper state change MIB trap.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%`: suppressed trap: virt nbr restart helper state now `%p3%`, reason `%p4%`, `%p5%`s left.

Message Parameters

Name	Type
p1	String
p2	String
p3	String
p4	String
p5	sInt32

OSPFv3.ProtoMgr.AllocMemStrtUpFail

Description

Memory shortage, causing failure to allocate a necessary portion of memory at start-up. OSPF will not start.

Remedy

Make more memory available to the system.

Severity

Error

Message Text

`%p1%` Failed to allocate memory at start-up.

Message Parameters

Name	Type
p1	String

OSPFv3.ProtoMgr.AddLSAToDB

Description

An LSA has been added to the LSA database.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` added to LSA database LSA LS Type = `%p3%` LSA LS ID = `%p4%` LSA advertising router = `%p5%` LSA sequence number = `%p6%` LSA CB Pointer = `%p7%` LSA = `%p8%`

Message Parameters

Name	Type
p1	String
p2	String
p3	uInt8
p4	DecByteArray
p5	DecByteArray
p6	xInt32
p7	Ptr
p8	HexByteArray

OSPFv3.ProtoMgr.RemLSAFmDB

Description

An LSA has been removed from the LSA database.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` removed from LSA database LSA LS Type = `%p3%` LSA LS ID = `%p4%` LSA advertising router = `%p5%` LSA sequence number = `%p6%` LSA CB Pointer = `%p7%`

Message Parameters

Name	Type
p1	String
p2	String
p3	uInt8
p4	DecByteArray
p5	DecByteArray
p6	xInt32
p7	Ptr

OSPFv3.ProtoMgr.AddLSAToActvRtTopo

Description

An LSA has been added to the active routing topology.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` added to active routing topology LSA LS Type = `%p3%` LSA LS ID = `%p4%` LSA advertising router = `%p5%` LSA sequence number = `%p6%` LSA CB Pointer = `%p7%`

Message Parameters

Name	Type
p1	String
p2	String
p3	uInt8
p4	DecByteArray
p5	DecByteArray
p6	xInt32
p7	Ptr

OSPFv3.ProtoMgr.RemLSAFmActvRtTopo

Description

An LSA has been removed from the active routing topology.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%p1%` `%p2%` removed from active routing topology LSA LS Type = `%p3%` LSA LS ID = `%p4%` LSA advertising router = `%p5%` LSA sequence number = `%p6%` LSA CB Pointer = `%p7%`

Message Parameters

Name	Type
p1	String
p2	String
p3	uInt8
p4	DecByteArray
p5	DecByteArray
p6	xInt32
p7	Ptr

OSPFv3.ProtoMgr.CfgChgAreaOrigNSSALSA

Description

An existing area has been configured to change whether it should originate NSSA LSAs for the external routes it receives over the RPI or not.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%%p2%`, oper state `%p3%`, type `%p4%` set to prevent origination of NSSA LSAs: `%p5%`

Message Parameters

Name	Type
p1	String
p2	String
p3	xInt8
p4	sInt32
p5	sInt

OSPFv3.ProtoMgr.ExitRstrtNotRxOwnRtrLSA

Description

Hitless restart has been exited because of topology change. In this case, the local router has re-learned the LSA database without receiving the required copy of its own Router-LSA. OSPF has exited from hitless restart.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%` Exited restart, topology changed: re-learned the LSA database without receiving own Router-LSA

Message Parameters

Name	Type
p1	String
p2	String

OSPFv3.ProtoMgr.ExitRstrtNbrRemActvLink

Description

Hitless restart has been exited because of topology change. In this case, a neighbor has left helper mode and removed a previously active link to this router from its Router-LSA. OSPF has exited from hitless restart.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1% %p2%` nbr `%p3%` Exited restart, topology changed: neighbor is no longer helping and has removed previously active link to this router from its Router-LSA. Diagnostic information for support: Received Router-LSA header = `%p4%`

Message Parameters

Name	Type
p1	String
p2	String
p3	DecByteArray
p4	HexByteArray

OSPFv3.ProtoMgr.ExitRstrtDRRemActvLink

Description

Hitless restart has been exited because of topology change. In this case, the DR for a network has left helper mode and removed a previously active link to this router from its Network-LSA. OSPF has exited from hitless restart.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` `%p2%` DR `%p3%` Exited restart, topology changed: DR no longer helping and has removed previously active link to this router from its Network-LSA. Diagnostic information for support: Received Network-LSA header = `%p4%`

Message Parameters

Name	Type
p1	String
p2	String
p3	DecByteArray
p4	HexByteArray

OSPFv3.ProtoMgr.ExitRstrtDRAddNewLink

Description

Hitless restart has been exited because of topology change. In this case, the DR for a network is not in helper mode and has added a new link to this router from its Network-LSA. OSPF has exited from hitless restart.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

`%p1%` `%p2%` DR `%p3%` Exited restart, topology changed: DR not helping and has added a new link to this router to its Network-LSA. Diagnostic information for support: Received Network-LSA header = `%p4%`

Message Parameters

Name	Type
p1	String
p2	String
p3	DecByteArray
p4	HexByteArray

OSPFv3.ProtoMgr.HoldOrigLTMinOrigIntv

Description

PM has been activated with a hold LSA origination interval smaller than its minimum LSA origination interval. OSPF will use the configured minimum LSA origination interval (if non-zero), but not the hold or maximum LSA origination intervals.

Remedy

To use full LSA throttling, ensure that the configuration of the minimum, hold and maximum LSA origination intervals are consistent.

Severity

Info

Message Text

`%p1%` The hold LSA origination interval `%p2%` ms is smaller than the minimum LSA origination interval `%p3%` ms.

Message Parameters

Name	Type
p1	String
p2	sInt32
p3	sInt32

OSPFv3.ProtoMgr.MaxOrigLTMinOrigIntv

Description

PM has been activated with a maximum LSA origination interval smaller than its minimum LSA origination interval. OSPF will use the configured minimum LSA origination interval (if non-zero), but not the hold or maximum LSA origination intervals.

Remedy

To use full LSA throttling, ensure that the configuration of the minimum, hold and maximum LSA origination intervals are consistent.

Severity

Info

Message Text

`%p1%` The maximum LSA origination interval `%p2%` ms is smaller than the minimum LSA origination interval `%p3%` ms.

Message Parameters

Name	Type
p1	String
p2	sInt32
p3	sInt32

OSPFv3.ProtoMgr.MaxOrigLTHoldOrigIntv

Description

PM has been activated with a maximum LSA origination interval smaller than its hold LSA origination interval. OSPF will use the configured minimum LSA origination interval (if non-zero), but not the hold or maximum LSA origination intervals.

Remedy

To use full LSA throttling, ensure that the configuration of the minimum, hold and maximum LSA origination intervals are consistent.

Severity

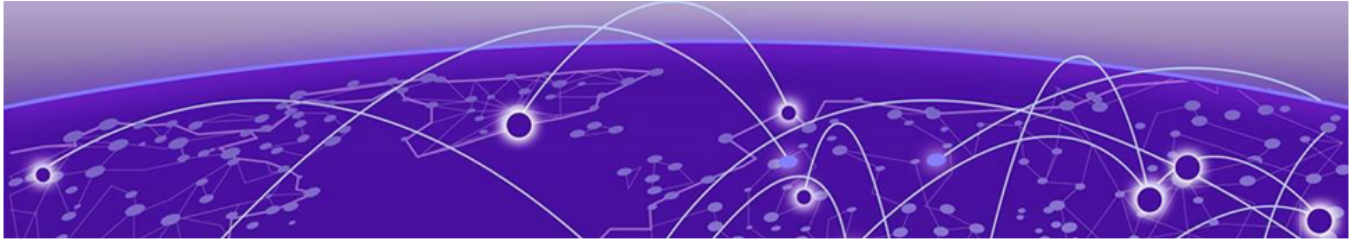
Info

Message Text

`%p1%` The maximum LSA origination interval `%p2%` ms is smaller than the hold LSA origination interval `%p3%` ms.

Message Parameters

Name	Type
p1	String
p2	sInt32
p3	sInt32



OTM Messages

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OTM.DebugVerbose on page 4000
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OTM.AsstRepRoleChange on page 4006
OTM.CreatVNetFailMaxExcd on page 4007
OTM.CreatVNetFailAlrdyExist on page 4007

OTM.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

OTM.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

OTM.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

OTM.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on overlay network configuration. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Arg `%arg%` is NULL

Message Parameters

Name	Type
arg	String

OTM.ParmInv

Description

An internal function was called with an invalid value. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on overlay network configuration. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Argument `%arg%` has an invalid value `%val%`

Message Parameters

Name	Type
arg	String
val	uInt32

OTM.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect operation of the Overlay feature.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure of size `%size%`.

Message Parameters

Name	Type
obj	String
size	uInt32

OTM.AllocInstFail

Description

Instance for the displayed object could not be allocated.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Instance allocation failed when trying to allocate an instance for `%obj%` structure.

Message Parameters

Name	Type
obj	String

OTM.InitSrvrFail

Description

Failed to start the OTM server. This is not expected and is indicative of a serious problem.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

OTM Server failed to start

OTM.InitSrvrDone

Description

This message is used for debugging problems related to OTM Server.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

OTM server initialized successfully

OTM.LocIfMatchRmtEndpt

Description

This message indicates that the local interface configured by user matches an already existing remote endpoint. However, the local interface has been accepted but the remote endpoint has been removed.

Remedy

User might want to double check if the configured local interface is correct. Otherwise, the remote endpoint has been wrongly configured.

Severity

Warning

Message Text

Local interface IP `%addr%` on VR `%vr%` VLAN `%vlan%` matches an existing remote-endpoint, deleting remote-endpoint

Message Parameters

Name	Type
addr	IPaddrN
vr	String
vlan	String

OTM.RmtEndptMatchLocIf

Description

This message indicates that the remote endpoint received from the client matches an already existing local interface. So, the remote endpoint has not been accepted.

Remedy

User might want to check if the configured local interface is correct. Otherwise, the remote endpoint has been wrongly configured.

Severity

Warning

Message Text

Dropping remote-endpoint IP `%addr%` on VR `%vr%` from `%client%` as it matches a local interface

Message Parameters

Name	Type
addr	IPaddrN
vr	String
client	String

OTM.KernTrace

Description

Messages that may interest a developer inspecting the events between OTM and kernel.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

OTM.AsstRepRoleChange

Description

Assisted Replication (AR) role has changed. Valid roles are rnve, leaf, and replicator. This message is set to Notice level while the OTM default setting is Warning so user configuration of the EMS filter is required. This is to ensure overly verbose output isnt displayed by default in systems with large numbers of virtual-networks.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Assisted Replication role change, virtual-network: `%vnet%` configured role: `%configured%` new role: `%new%`

Message Parameters

Name	Type
vnet	String
configured	String
new	String

OTM.CreatVNetFailMaxExcd

Description

This message indicates that a virtual network is not created for the given VLAN and VNI because the number of virtual networks in the system has already reached the maximum limit.

Remedy

User might want to limit the number VLAN-NSI mappings, thereby limiting the requests for virtual networks beyond the system limit.

Severity

Warning

Message Text

Virtual network not created for `%vlan%` VNI `%vni%`, since system limit of `%max%` reached

Message Parameters

Name	Type
vlan	String
vni	uInt32
max	uInt32

OTM.CreatVNetFailAlrdyExist

Description

This message indicates that a virtual network is not created for the given VLAN and VNI because a virtual network already exists either for the given VLAN or for the given VNI. Note this message is logged when either the VLAN or the VNI mismatches with that of the already existing virtual network.

Remedy

User might want to check for the conflicting VLAN-NSI mappings and take corrective action.

Severity

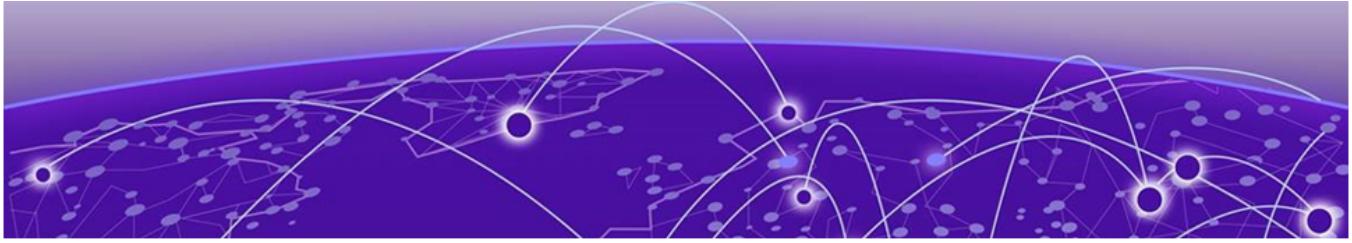
Warning

Message Text

Virtual network not created for `%vlan%` VNI `%vni%`, since `%vnet%` already exists for `%vnetVlan%` VNI `%vnetVni%`

Message Parameters

Name	Type
vlan	String
vni	uInt32
vnet	String
vnetVlan	String
vnetVni	uInt32



pim Messages

pim.StrtTaskOK on page 4009
pim.InitPolMgrFail on page 4009
pim.InitDSFail on page 4010

pim.StrtTaskOK

Description

Protocol Independent Multicast Messages.

Remedy

No remedy. Informational message.

Severity

Info

Message Text

Pim Started successfully.

pim.InitPolMgrFail

Description

Could not register with Policy mamager. Either policy manager is not active at this time or there is some fatal error.

Remedy

No remedy. Contact tech support.

Severity

Critical

Message Text

Could not connect to policy manager. Pim will exit.

pim.InitDSFail

Description

PIM is unable to initialize an internal service which is required for correct protocol operation. This error is not expected and is indicative of a serious problem.

Remedy

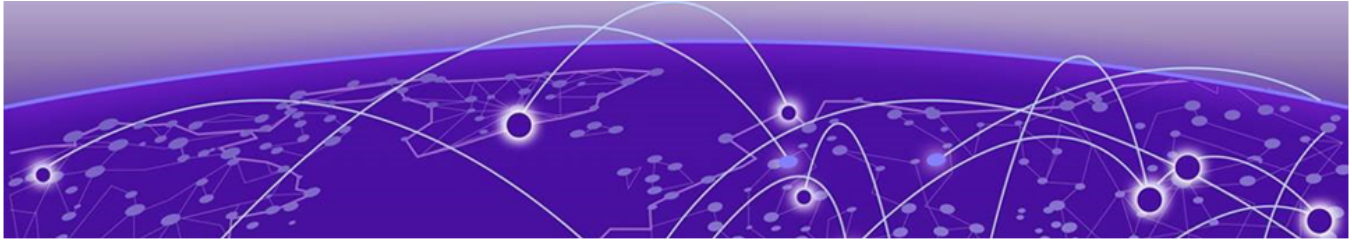
On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Critical

Message Text

Unable to initialize an internal service.



pim.AnycastRP Messages

pim.AnycastRP.DebugSummary on page 4011
pim.AnycastRP.DebugVerbose on page 4012
pim.AnycastRP.DebugData on page 4012
pim.AnycastRP.RxRegMsg on page 4013
pim.AnycastRP.FwdRegNoSrcIP on page 4014
pim.AnycastRP.FwdRegMsg on page 4014
pim.AnycastRP.TxNullRegMsg on page 4015
pim.AnycastRP.TxRegStopMsg on page 4016

pim.AnycastRP.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.AnycastRP.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.AnycastRP.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.AnycastRP.RxRegMsg

Description

This event occurs when PIM register message is received from anycast RP peer.

Remedy

No action required - Informational message only

Severity

Debug-Summary

Message Text

Register message received from anycast RP peer `%ipa1%`, destined to `%ipa2%` for (Source `%ipa4%` , Group `%ipa3%`).

Message Parameters

Name	Type
ipa1	IPaddrN
ipa2	IPaddrN
ipa3	IPaddrN
ipa4	IPaddrN

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.AnycastRP.FwdRegNoSrcIP

Description

PIM is not able to forward the register messages to anycast RP set peers due to non-availability of Source IP address. Register messages between the Anycast RP set peers are encapsulated with the configured unicast source and destination header.

Remedy

Create loopback interface with routable unicast address configured on it. Enable PIM on the interface and then add unicast address in anycast RP set peer policy file. Refresh the policy file for the new entry to take effect. Verify that "show pim anycast-rp" command displays the newly configured local address

Severity

Warning

Message Text

Register message cannot be forwarded to `%anycastrp%` anycastRP set peers since Source IP is not configured.

Message Parameters

Name	Type
anycastrp	IPaddrN

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.AnycastRP.FwdRegMsg

Description

Register message received from the Designated Router (DR) will be forwarded to all the peers listed in anycast RP set with the encapsulated PIM register header.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Register message is forwarded from `%srcIp%` to peer `%dstIp%` in anycastRP address `%rp%`.

Message Parameters

Name	Type
srcIp	IPaddrN
dstIp	IPaddrN
rp	IPaddrN

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.AnycastRP.TxNullRegMsg

Description

The NULL register message received from Designated Router(DR) will be forwarded to all the peers listed in anycast RP set with the encapsulated PIM register header.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Transmitting NULL Register message for cache (Source `%ips%`, Group `%ipg%`) to peer `%odip%` in anycastRP address `%rp%` from source address `%osip%`.

Message Parameters

Name	Type
ips	IPaddrN
ipg	IPaddrN
rp	IPaddrN
osip	IPaddrN
odip	IPaddrN

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.AnycastRP.TxRegStopMsg

Description

If there are no local receivers for a group, the nearest Anycast RP node sends a unicast Register stop message for (S,G) to anycast peer node that originally sent the register message for this group.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Transmitting Register Stop message for cache (Source `%ips%`, Group `%ipg%`) to peer `%odip%` in anycastRP address `%rp%` using source address `%osip%`.

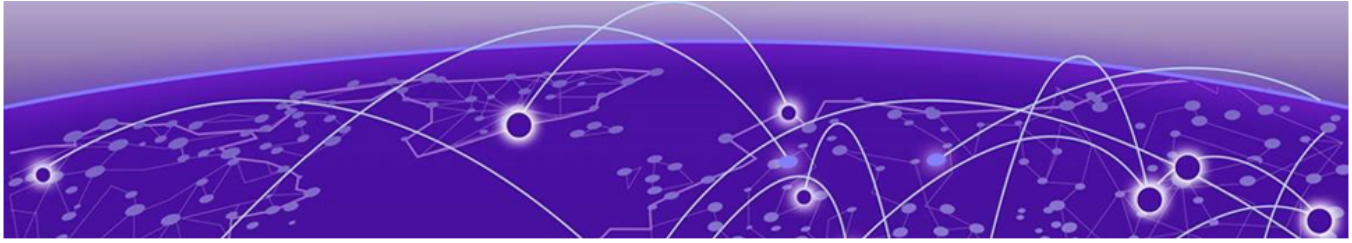
Message Parameters

Name	Type
ips	IPaddrN
ipg	IPaddrN
rp	IPaddrN

Name	Type
osip	IPaddrN
odip	IPaddrN

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



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pim.cache.BldMcFDB

Description

Starting to add multicast FDB entry to asic.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Adding cache FDB, `%ip1%`/`%ip2%`, `%cpu%`, `%upif%`

Message Parameters

Name	Type
ip1	IPaddrN
ip2	IPaddrN
cpu	String
upif	String

pim.cache.AddMcFDBDone

Description

PIM sent the multicast fdb to be added to asic successfully. The FDB would be used for fast path forwarding.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Add cache, `%ip0%`/`%ip1%`, FDB succeeded.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.cache.AddMcFDBFail

Description

Pim failed to send the multicast fdb to be added to asic. This may because the message queue to mcmgr is full. Another attempt would be made when the next cache misss is received from mcmgr.

Remedy

Informational message only, for debug purpose.

Severity

Notice

Message Text

Add cache, `%ip0%`/`%ip1%`, FDB failed.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.cache.DelShadFDB

Description

On shared tree multicast FDB is created for each source learnt. This message is displayed when such entries are cleared. Typically this happens while switching from shared tree to 'source specific tree'.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Delete multicast FDB entry, `%ip0%`/`%ip1%`, learnt on shared tree.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.cache.RfrshNonUpifFDB

Description

The stream coming from non upcoming interface is discarded by adding a drop entry on in the FDB. This is done to stop unwanted traffic from coming to CPU. In this case it is found that such an entry already exists corresponding to the cache miss received. %ip2% is the source address in cache. It will be shown as 0.0.0.0 for (*,g) and (*,*,rp) entries.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Refresh multicast FDB, `%ip0%`/`%ip1%`, for stream coming from non-upcoming interface, `%vname%`. Cache source, `%ip2%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN
ip2	IPaddrN

pim.cache.AddNonUpifFDB

Description

The stream coming from non upcoming interface is discarded by adding a drop entry on in the FDB. This is done to stop unwanted traffic from coming to CPU.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Add multicast FDB, `%ip0%`/`%ip1%`, for stream coming from non upcoming interface, `%vname%`. Cache source, `%ip2%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN
ip2	IPaddrN

pim.cache.AddShadFDB

Description

On shared tree multicast FDB is created for each source learnt. The message is displayed when a new source is learnt and is added to FDB.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Add multicast FDB entry, `%ip0%`/`%ip1%`, learnt on shared tree.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.cache.DelMcFDB

Description

The message is displayed when multicast FSB is added for a cache for fast path forwarding.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Delete multicast FDB corresponding to cache, `%ip0%`/`%ip1%`.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.cache.AddMiscMcFDB

Description

In some situation a cache entry could not be created. This may happen because of no route or no RP information. In such cases multicast FDB entry is added to switch the traffic on ingress vlan. This entry is added mainly to save the CPU from processing, however, in some cases these entry is useful to legitmately switch the traffic. Traffic hitting on Non-DR is one such application, as (*,g) could not be created on Non-DR.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Add multicast FDB entry for stream, `%ip0%`/`%ip1%`, arriving on vlan `%vlan0%`, as cache could not be created.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vlan0	VLAN

pim.cache.TmoutAsrtCache

Description

Assert timer expired on the cache. This timer is started after the downstream router listens the assert message on ingress vlan. On expiry join is sent to upstream to trigger another assert process.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Assert timer expired on cache, `%ip0%`/`%ip1%` (`%ip2%`).

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN

pim.cache.TmoutAsrtCacheDone

Description

Assert timer expired on the cache. This timer is started after the downstream router listens the assert message on ingress vlan. On expiry join is scheduled to upstream neighbor.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Assert timer expired on cache, `%ip0%`/`%ip1%`. Scheduling join upstream neighbor `%ip2%`.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN

pim.cache.ProcAsrtWinEgr

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Process assert win on cache, `%ip0%`/`%ip1%`, for egress vlan, `%nm%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
nm	VLAN

pim.cache.ProcAsrtWinPrn

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Process assert win on cache, `%ip0%`/`%ip1%`, for non-egress vlan, `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
nm	VLAN

pim.cache.ProcEgrPkt

Description

Message is shown when a multicast data packet is received on egress of corresponding cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Check if assert is required for cache, `%ip0%`/`%ip1%` on vlan `%nm%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
nm	VLAN

pim.cache.ProcIngrJoin

Description

Received join on ingress vlan for cache. Any pending join would be cancelled, as there was another vlan who sent the join message.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-DM: Snooped join message on ingress vlan, `%nm%`, of cache,`%ip0%`/`%ip1%`. Join sent from `%ip2%`.

Message Parameters

Name	Type
nm	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN

pim.cache.ProcEgrJoin

Description

Received join on egress vlan for cache. The vlan would be added as egress on the cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-DM: Received join message on downstream vlan, `%nm%`, for cache, `%ip0%`/`%ip1%`. Join sent from `%ip2%`.

Message Parameters

Name	Type
nm	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN

pim.cache.ProcIngrPrun

Description

Received prune on ingress vlan for cache. An overriding join could be scheduled if the switch has positive cache entry state.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-DM: Snooped prune message on ingress vlan, %nm%, of cache,%ip0%/%ip1%. Prune sent from %ip2%.

Message Parameters

Name	Type
nm	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN

pim.cache.ProcEgrPrunFwd

Description

Received a prune message on a downtream vlan of cache. The vlan was in forwarding state. The action would be to out the egress in prune pending state as dictated by the RFC.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-DM: Received prune message on egress vlan, %nm%,in forwarding state for cache, %ip0%/%ip1%. Prune received from %ip2%.

Message Parameters

Name	Type
nm	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN

pim.cache.ProcEgrPrun

Description

Received a prune message on a downtream vlan of cache. The vlan was in prune pending state. The action would be reset the prune pending time for the holdtime in the message.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-DM: Received prune message on egress vlan, `%nm%`,in prune pend state for cache, `%ip0%`/`%ip1%`. Prune received from `%ip2%`.

Message Parameters

Name	Type
nm	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN

pim.cache.ProcEgrPrunHld

Description

Received a prune message on a downtream vlan of cache. The vlan was in prune hold state before. The action would be to restart the prune hold timer.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-DM: Received prune message on egress vlan, %nm%,in prune hold state for cache, %ip0%/%ip1%. Prune received from %ip2%.

Message Parameters

Name	Type
nm	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN

pim.cache.ProcEgrGraft

Description

Received a graft message on a downtream vlan of cache. The action would be to put the vlan in egress state.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-DM: Received prune message on egress vlan, %nm%, for cache, %ip0%/%ip1%. Graft received from %ip2%.

Message Parameters

Name	Type
nm	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN

pim.cache.ProcSparseJoin

Description

Received join on the sparse interface, thus the interface is added to the egress list of the cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Applying sparse join on egress vlan, `%nm%`, for cache `%ips%`/`%ipd%`. Join received from `%ip1%`

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN
ip1	IPaddrN

pim.cache.RxIngrSGPrune

Description

Snooped prune message on the ingress vlan. An overriding joing would be scheduled if required.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (s,g) prune on ingress, %nm%, for cache %ips%/%ipd%.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.RxEgrSGPrune

Description

Received (s,g) prune on the egress vlan. The prune is being applied to the existing cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (s,g) prune on egress vlan, %nm%, for cache %ips%/%ipd%.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.CreatEgrSGRptPruneOnRP

Description

Received (s,g)rpt prune on egress vlan. New cache created as no cache was found.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (s,g)rpt prune on egress vlan, `%nm%`. New cache created `%ips%`/`%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.RfrshEgrSGRptPruneOnRP

Description

SG rpt prune received for a group whose RP is on this switch. The corresponding cache already exists. The cache's pruned list would be refreshed.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (s,g)rpt prune on egress vlan, `%nm%`, on existing cache `%ips%`/`%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.RxIngrSGRptPrune

Description

PIM-SM: Received (s,g)rpt prune on ingress vlan, %nm%, on existing cache %ips%/%ipd%. An appropriate overing join could be sent if there is a (s,g) state on the switch. The message is displayed if the elected RP for the group is not on this switch.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (s,g)rpt prune on ingress vlan, `%nm%`, on existing cache `%ips%`/`%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.RxEgrSGRptPruneOver

Description

The SG rpt prune is not applied on the egress as there already is local IGMP membership on the vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Dropping (s,g)rpt prune on egress vlan,`%nm%`, matched cache `%ips%`/`%ipd%`, because of IGMP state on egress.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.CreatEgrSGRptPrune

Description

SG rpt prune received, for which a new (s,g)rpt entry is created.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (s,g)rpt prune on egress vlan, `%nm%`. Creating new cache `%ips%`/`%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.RfrshEgrSGRptPrune

Description

SG rpt prune received, on the cache. The corresponding vlan would be removed from egress of the cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (s,g)rpt prune on egress vlan, `%nm%`. Refreshing pruned list on cache `%ips%`/`%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.RxIngrZGPrune

Description

Recived (*,g) prune on the ingress of the cache. Overriding join could be scheduled, if the cache any egress interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (*,g) prune on ingress vlan, `%nm%`, on cache `%ips%`/`%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.CreatEgrZGPruneState

Description

(*,g) prune received on the vlan. However no cache was found corresponding to the prune message, thus a new (*,g) cache entry is created and the vlan is put in the pruned list.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (*,g) prune on egress vlan, `%nm%`. New cache, `%ips%`/`%ipd%`, was created as result of the prune message.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.RefrshEgrZGPrune

Description

(*,g) prune is received on the egress of the cache. The vlan would be shceduled to be pruned from the egress list.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (*,g) prune on egress vlan, `%nm%`, of cache, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.RxZZRpPrune

Description

Received the (*,*,rp) prune message on vlan. The interface would be removed from the corresponding cache's egress list.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (*,*,rp) prune on egress vlan, `%nm%`, of cache, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.InheritZgState

Description

(*,g) join is recived on the vlan, which would be propagated to all the (s,g)/(s,g)rpt cache netries if any..

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Propagating (*,g) join, on vlan `%nm%`, on to the (s,g)/(s,g)rpt entries for group `%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ipd	IPaddrN

pim.cache.InheritZSRpState

Description

Propagating the (*,*,rp) join received on the vlan to all the cache entries. This pulls all the traffic, from RP to the PMBR router.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Propagating (*,*,rp) join on vlan, `%nm%`, for rp, `%rp%`, to all the cache.

Message Parameters

Name	Type
nm	VLAN
rp	IPaddrN

pim.cache.SndRegStopMsg

Description

Register stop for (s,g) is being sent via unicast to RP.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending regiester stop for cache, `%ips%`/`%ipd%`, to dst IP, `%ip2%`

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
ip2	IPaddrN

pim.cache.DelEgrVlan

Description

Deleting the egress interface with flag.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Deleting egress vlan, %nm%, on cache %ips%/%ipd%, with flag %flg% , holdtime %tm%.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN
flg	String
tm	sInt

pim.cache.RegMsgVerFail

Description

The register message is dropped as the version set in the packet is wrong.

Remedy

The source switch is not configured for pim version 2 or it is sending erroneous message. Check other switch's configration.

Severity

Warning

Message Text

Register message from %ips%, to %ipd%, has wrong version, %num%.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
num	sInt

pim.cache.RxNullRegMsg

Description

Received the periodic NULL register message.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received NULL register message from `%ips%`, to `%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.ReadRegMsg

Description

The register message received has the above source and group address set in the packet.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received register message for source/group, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.RxRegMsgUnk

Description

No RP was found for the group address embedded in the register packet. The packet would be dropped.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

No RP was found for the register message, `%ips%`/`%ipd%`. Packet is being dropped.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.RxRegMsgNoRP

Description

The elected RP corresponding to the group in the message is not configured on this switch. Sometimes this may happen because of inconsistent RP information on first hop and other switch on the network. In such case the switch responds by sending register stop. Later if the correct RP is learnt the register message is accepted.

Remedy

In case of static RP configuration please check the RP on first hop and this switch. If the RP is being learnt through BSR mechanism no action is required.

Severity

Info

Message Text

RP found for the register message, `%ips%`/`%ipd%`, is not configured on this switch.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.RxRegMsgInv

Description

The register message is unicasted to RP. This message show up when the message is destined to other interface on the switch. The register packet is silently dropped.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

The RP address, `%rp%` for group `%ipd%`, in the switch doesn't match with IP destination address, `%ipd2%`.

Message Parameters

Name	Type
rp	IPaddrN
ipd	IPaddrN
ipd2	IPaddrN

pim.cache.RxBrdrRegMsg

Description

Received the register message from the PMBR source. The PMBR router acts as a first hop to RP for the stream originating in the Dense mode domain. The register message for such stream originating from PMBR router as border bit set.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received register message the 'Border' bit set from `%ips%`, to `%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.ProcRegMsg

Description

Processing the register message originating from the PIM-SM mode. i.e., the border bit in the register message is not set.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Processing register message from `%ips%`, to `%ipd%`, for RP `%rp%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.RefrshNullRegSgState

Description

Processing the null register message on the cache. This basically updates the timer on the cache, and register stop is triggered, so the the normal register message sending is not resumed from the first hop.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Applying NULL register message on cache, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.FndRegMsgCache

Description

The cache corresponding to the register message found with the flow already established. The switch would respond with a regiter stop message as normal traffic flow is already established.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Found the cache, `%ips%/%ipd%`, for the register message, with SPT bit set.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.RxRegStopMsg

Description

Received the register stop message for the cache. This would restart the register suupress timer, such that the register message would be suppressed for 'Register suppression time'.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received register stop message. Matching cache found `%ips%/%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.TxNullRegMsg

Description

Going to send periodic null register message for the cache, from the first hop router. The message would be sent to the RP.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Sending NULL register message for cache, `%ips%`/`%ipd%` to rp `%rp%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.RegMsgCksumFail

Description

The register message failed the checksum test. The packet would be dropped.

Remedy

The checksum failure could happen because first hop and RP may be calculating the register checksum differently. The cisco calculates the checksum for register message differently than as recommended by RFC. The default for the extreme is cisco way, which could be changed to RFC method through cli, configure register-checksum-to exclude-data. If the message is encountered even if the source switch is extreme's switch, please make sure that, the configurations on source and RP are identical.

Severity

Error

Message Text

Register message from %ips%, to %ipd% failed the checksum test.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.CreatRegMsgState

Description

Created (s,g) entry for register messaage. There was no (*,g) entry corresponding to the group. The (s,g) entry is created in order to facilitate instant join to the source, for the new downstream members. If the (s,g) is not created, the new members may have to wait for upto 1 minutes to receive any packet. Creating (s,g) entry is way to remember all the sourcea streaming to group, towards which instant (s,g) join couild be sent on receiving (*,g)/IGMP join from downstream routers/hosts.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

No state for the register message received. Creating (s,g) enrtry, %ips%/%ipd%.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.ChgRpIngrParmOnSg

Description

Route to rp has changed. The changed information is being updated on non (s,g) cache entries.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Change in RP upstream interface and neighbor info on (s,g)/(s,g)rpt cache, `%ips%`/`%ipd%`/`%iprp%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
iprp	IPaddrN

pim.cache.GetRpRoute

Description

While creating multicast cache the route lookup for RP was done. The resultant gateway found is displayed.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Route to rp %ip0% found with gateway, %ip1%\n

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.cache.AddMcCache

Description

Building dense mode cache.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Adding cache, %ips%/%ipd%, with ingress, %nm%, to database.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
nm	VLAN

pim.cache.LkupSrcRouteFail

Description

No cache can be created if the route lookup fails. This may be a legitmate condition too.

Remedy

Please check if there is any route present for the source in the routing table. If the route is expected to be there please check the unicast protocol being run, to debug the problem. Adding static route will also solve the problem.

Severity

Info

Message Text

PIM-DM: Cache could not be created as route to the source, `%ips%` could not be found.\n

Message Parameters

Name	Type
ips	IPaddrN

pim.cache.CmpIngrVlanFail

Description

Cache is created only if the stream is received on upstream interface. The upstream interface is the gateway interface towards the source network of the stream.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

PIM-DM: cache could not be created for source, `%ips%`, as stream arrived on non upcoming interface, `%if1%`. Expected interface, `%if2%`.

Message Parameters

Name	Type
ips	IPaddrN
if1	VLAN
if2	VLAN

pim.cache.CreatNegCache

Description

Cache entry built for (s,g), however, no downstream egress was added to the cache. Thus, prune would be sent towards the source. One reason for no egress be added could be because the switch is a leaf router on the dense cloud. A leaf router is that router, which has no IGMP member on any of the vlan, and no PIM neighbor on any of the vlan except the ingress vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-DM: Created negative cache entry, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.CreatPosCache

Description

Created positive cache entry, i.e., the cache has al least one egress interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-DM: Created positive cache entry, %ips%/%ipd%.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.ProcEgrTimeExp

Description

Timer expired on the egress vlan. The vlan would be removed from the cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Egress timer on egress, %nm%, for cache, %ips%/%ipd%/%iprp%, expired. Cache type, %tp%.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN
iprp	IPaddrN
tp	String

pim.cache.ChgPruneState

Description

Prune state timer expired on the vlan. The vlan is going to prune state 2. A reienforcing prune would be sent to downstream.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Prune timer expired on vlan, `%nm%`, for cache `%ips%`/`%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.SetPruneState

Description

Prune state timer expired on the vlan for the second time. The vlan will be pruned instantaneously.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Pruning vlan, `%nm%`, on cache `%ips%`/`%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.ClrPruneState

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Prune timer expired on vlan `%nm%`, on cache `%ips%`/`%ipd%`. The vlan would be added to egress.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.ExpPruneTimeUnk

Description

On prune timer expiry the egress is put in different states as described in RFC. In this case the state of the egress could not be recognized. This is an error condition and there is no suggested remedy for this.

Remedy

Contact tech support.

Severity

Error

Message Text

Egress, %nm%, on cache %ips%/%ipd%, is in unknown state, when the prune timer expired.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.TmoutJoinTime

Description

Timer on ingress vlan was running to wait for random time before sending any join upstream. Such timer is started mainly for sending overriding joins. Joins are not sent immediately in the hope of overriding join from other switch on the network. If no join is snooped this timer expires, and join is sent upstream.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Timer on the ingress, %nm%, of cache, %ips%/%ipd% expired. Sending join upstream.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.SetEgrTime

Description

Egress timer is being set on the given egress for the given cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Setting egress timer on vlan, `%nm%`, for cache, `%ips%/%ipd%`, with timeout period `%num%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN
num	sInt

pim.cache.DelEgrVlanFail

Description

The vlan being deleted from the cache is not a member of egress list .

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Delete egress vlan, `%nm%`, from cache, `%ips%/%ipd%/%rp%`, failed as the vlan has no join state on the cache.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.DelEgrVlanDup

Description

The interface being deleted from egress list of the cache is already in pruned list.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Vlan, `%nm%`, is already in pruned state on cache, `%ips%`/`%ipd%`/`%rp%`. Delete operation is not required.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.DelNonSgMcFDB

Description

For no (s,g) entries, to del an egress to the cache all the associated entries' are removed from the FDB, such that the next stream would program all the egress excluding the new one.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Deleting egress, `%nm%`, on Non (s,g) cache, `%ips%/%ipd%/%rp%`. Removing multicast FDB.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.DelEgrVlanDone

Description

Displaying the cache state after egress delete.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Deleted egress of cache, `%ips%/%ipd%/%rp%`. As a result egress list is `%st%`. Number of local member on cache is `%num1%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

Name	Type
rp	IPaddrN
st	String
num1	sInt

pim.cache.DelCacheNoEgr

Description

The (*,g) cache entry is deleted as soon as the egress list is empty.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Deleting the (*,g) cache entry, `%ips%`/`%ipd%`/`%rp%`, as there is no egress.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.ClrEgrVlanDone

Description

The cache entry has no egress interface now. The cache would be deleted eventually when the entry timer expires. The entry timer expires based on the actual stream flow.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

The egress list of cache, `%ips%/%ipd%/%rp%`, is empty.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.StrtCacheTime

Description

Entry timer on (*,g) is run only if there is no local membership for the group address. Here the last IGMP member is deleted, but there are other downstream members, so start the entry timer on the (*,g) cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

No local member on (*,g) cache, `%ips%/%ipd%/%rp%`. Starting cache entry timer.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.SwitchSrcTree

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Switching to SPT tree on `%name0%` for source, `%ips%` and group, `%ipd%`.

Message Parameters

Name	Type
name0	String
ips	IPaddrN
ipd	IPaddrN

pim.cache.ChgIngrSgNbr

Description

Upstream gateway changed for (s,g) entry, however the incoming interface is the same.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Upstream nbr changed from `%ip2%` to `%ip3%`, on cache `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ip2	IPaddrN
ip3	IPaddrN
ips	IPaddrN
ipd	IPaddrN

pim.cache.ChgIngrVlan

Description

Dense mode cache upstream interface is changed as route to the source changed.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Change in upstream interface on cache, `%ips%`/`%ipd%`, from `%num0%` to `%num1%`

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
num0	VLAN
num1	VLAN

pim.cache.ChgIngrDensNbr

Description

Upstream gateway changed for (s,g) entry, however the incoming interface is the same.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Upstream nbr changed from `%ip2%` to `%ip3%`, on cache `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ip2	IPaddrN
ip3	IPaddrN
ips	IPaddrN
ipd	IPaddrN

pim.cache.ExtdCacheTime

Description

Only for those systems where asic doesn't support age bit the cache is not deleted even after expiry time. Only the FDB is deleted and if the stream is still active the next packet would restart the enrtry timer and will reinstate the FDB entry.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Extending lifetime for cache, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.GetCache

Description

Find or delete cache for the given source/group/rp.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Find or create cache entry, `%ips%/%ipd%/%rp%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.CreatCache

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Create a new multicast cache entry, `%ips%/%ipd%/%rp%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.ImprtEgrData

Description

New cache entry is being created which would inherit egress list from the (*,g) or (*,*,rp) or (s,g)rpt entries.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Inheriting egress list from cache, `%ips%`/`%ipd%`/`%rp%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.FndRpFail

Description

No RP could be found for the group so cache create operation failed.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Create PIM cache failed as no RP could be found for group, `%ipd%`.

Message Parameters

Name	Type
ipd	IPaddrN

pim.cache.GetRpRouteFail

Description

No route to the RP so, cache could not be created.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Create PIM cache failed as no route lookup for RP, `%ip0%`, returned NULL.

Message Parameters

Name	Type
ip0	IPaddrN

pim.cache.InsIngrVlan

Description

Displaying the ingress vlan for the cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

The ingress vlan for the cache being created is `%nm%`.

Message Parameters

Name	Type
nm	VLAN

pim.cache.AddIGMPVlan

Description

Learnt a new IGMP member on the vlan, which would be added to the egress list of all the cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Adding IGMP membership for, grp `%ip0%` on vlan `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
nm	VLAN

pim.cache.DelIGMPVlan

Description

Leaving IGMP member on the vlan. This would result into deleting egress vlan's IGMP flag from all the relevant cache entries.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Deleting IGMP membership for grp, `%ip0%` vlan `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
nm	VLAN

pim.cache.TmoutGarbTime

Description

On expiry of this timer all the statistics on the shared tree is cleared. PIM's internal unused route database is cleared too.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Expired internal garbage collection timer.

pim.cache.ChgRpMapFail

Description

Route to new RP does not exist.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

RP failover could not be completed as there is no route to new RP, `%ip0%`.

Message Parameters

Name	Type
ip0	IPaddrN

pim.cache.TmoutEgrTime

Description

The egress timer being run for the cache has expired. Subsequent action would be taken for the egress, whoes timer were to expire.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Egress timer expired for cache, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.ClrRpMap

Description

Existing RP for the group is removed from the database with no backup RP. So the cache would be deleted.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

The elected RP for the cache, `%ips%`/`%ipd%`, is NULL. Cache would be deleted.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.ProcPruneMsg

Description

Existing RP for the group is removed from the database with no backup RP. So the cache would be deleted.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Received prune message of type, %tp%, on vlan %vl%, for cache, %ips%/%rp%.

Message Parameters

Name	Type
tp	String
vl	VLAN
ips	IPaddrN
rp	IPaddrN

pim.cache.AddEgrVlan

Description

Addring or refreshing the egress interface with the flag.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Adding egress vlan, %nm%, of %tp% type, on cache %ips%/%ipd%, with flag %flg%, holdtime %tm%.

Message Parameters

Name	Type
nm	VLAN
tp	String
ips	IPaddrN
ipd	IPaddrN

Name	Type
flg	String
tm	sInt

pim.cache.StrtCacheTimer

Description

Refresh entry timer on cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Starting entry timer on cache `%ips%`/`%ipd%` for time `%tm%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
tm	sInt

pim.cache.StopCacheTimer

Description

Refresh entry timer on cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Stopping entry timer on cache %ips%/%ipd%.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.ProcDensRtChg

Description

Route change being applied to above cache in dense mode.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM DM cache src route change (%str0%) for %ips%/%ipd% , .

Message Parameters

Name	Type
str0	String
ips	IPaddrN
ipd	IPaddrN

pim.cache.ReplDensRt

Description

More specific route being added to route.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Replacing to more specific route for `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.cache.RecvInfRoute

Description

Switching to inferior route to destination.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received inferior route to destination `%ips%`.

Message Parameters

Name	Type
ips	IPaddrN

pim.cache.SendMcmMsgFail

Description

Error while sending message to mcmgr.

Remedy

Check whether mcmgr process is dead or switch is in heavy load, contact tech support.

Severity

Error

Message Text

Message (`%n1%`) could not be sent to mcm in `%n2%` attempt `%ips%`/`%ipd%`.

Message Parameters

Name	Type
n1	sInt
n2	sInt
ips	IPaddrN
ipd	IPaddrN

pim.cache.DelIGMPV3Vlan

Description

Leaving IGMPv3 member on the vlan. This would result into deleting egress vlan's IGMP flag from all the relevant cache entries.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Deleting IGMPv3 membership for grp/src, `%ip0%`/`%ip1%` vlan `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
nm	VLAN

pim.cache.AddIGMPV3Vlan

Description

Learnt a new IGMPv3 member on the vlan, which would be added to the egress list of all the cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Adding IGMPv3 membership for, grp/src `%ip0%`/`%ip1%` on vlan `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
nm	VLAN

pim.cache.DelSubShadFDB

Description

On shared tree multicast FDB is created for each source learnt. This message is displayed when such entries are cleared. Typically this happens while switching from shared tree to 'source specific tree'.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Delete all multicast FDB entry, `%ip0%`/`%ip1%`, learnt on shared tree.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.cache.AddSgOnRPTree

Description

This log is written when receiving data for an existing (S,G) entry, but on the Upif toward RP. We program hardware's inVlan to be Upif toward RP, instead of the usual Upif toward Src.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Add multicast FDB entry, (S,G) [`%ip0%`, `%ip1%`], on RP tree with inVlan using Upif toward RP

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.cache.RegPduNoSpecialFlag

Description

This log is written when receiving Register PDU for an existing (S,G) entry, but whose SPECIAL flag was not already set. We must set it so that we can send JOINs back toward Src to handle scenarios where Last-Hop-Router is in between First-Hop-Router and RP.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Receiving Register Pdu for existing (S,G) [`%ip0%`, `%ip1%`], whose special flag was not set

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.cache.SkipRpDel

Description

RP is being deleted. So skip this RP while processing.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Skipping RP `%ip0%` as it is being Deleted.

Message Parameters

Name	Type
ip0	IPaddrN

pim.cache.NoNeighbor

Description

Cache is created only if the stream is received from a valid neighbor.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

PIM-DM: Cache could not be created for traffic from, `%ips%`, on circuit,`%if1%`. No such neighbor exist.

Message Parameters

Name	Type
ips	IPaddrN
if1	VLAN

pim.cache.DelRegOif

Description

The register OIF is being deleted from the cache as RP is not available .

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Deleting Register OIF from cache, `%ips%/%ipd%/%rp%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.cache.RxIngrZZRpPrune

Description

Recived (*,*,rp) prune on the ingress of the cache. Overriding join could be scheduled, if the cache any egress interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM-SM: Received (*,*,rp) prune on ingress vlan, `%nm%`, for cache `%ips%/%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.cache.DropCacheMissMsg

Description

The source and group could have been denied by the register filter if the cache is dropped due to register policy.

Remedy

Multicast data traffic from this source denied by the register filter, if it is not a valid source then find the origin of this packet then stop the stream.

Severity

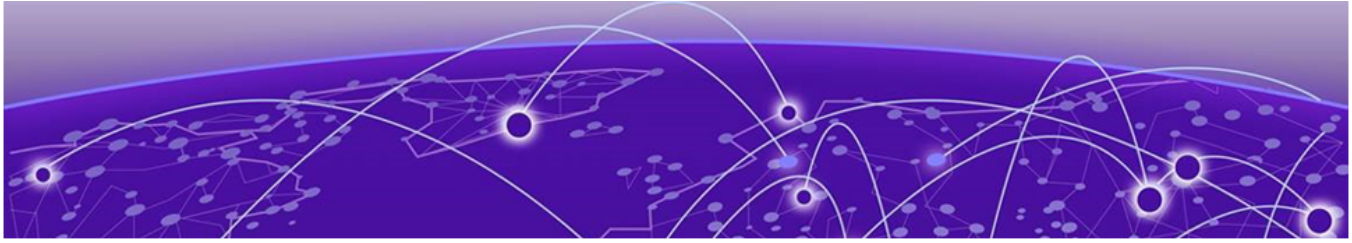
Warning

Message Text

Cache miss message received from `%ipa1%`, destined to `%ipa2%` is dropped due to `%dropReason%`.

Message Parameters

Name	Type
ipa1	IPaddrN
ipa2	IPaddrN
dropReason	String



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pim.debug.PrnEgrFDBData

Description

Debug message to be able to dump the egress on a cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Egress: `%num0%`

Message Parameters

Name	Type
num0	sInt

pim.debug.AddEgrVlan

Description

Debug message to dump the egress information for the cache, being sent to the MCM manager.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Adding egress interface, `%num0%` (remote addr: `%ip0%`), to FDB.

Message Parameters

Name	Type
num0	sInt
ip0	IPaddrN

pim.debug.DumpEgrVlanCnt

Description

Debug message showing the number of egress being added to cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Adding cache, %ips%/%ipd%, with egress count %num0%.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
num0	sInt

pim.debug.DelCacheEntry

Description

Shows that the delete cache message is being sent to MCM process.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending delete cache message to MCM for cache, %ip0%/%ip1%.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.debug.ProcCacheMissMsgFail

Description

The interface id in the cache miss message from MCM is invalid or PIM has not learnt about such an interface.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Could not process cache miss message as the interface, `%num0%`, could not be found.

Message Parameters

Name	Type
num0	sInt

pim.debug.ProcMcPktFail

Description

Multicast data packet in control range is not routed, so there won't be any multicast cache entry for the same.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Cache miss is being dropped, as destination, `%name0%`, is in control range.

Message Parameters

Name	Type
name0	IPaddrN

pim.debug.LkupVlanModeFail

Description

Invalid configuration on the vlan.

Remedy

Contact tech support.

Severity

Notice

Message Text

Cache miss on the vlan, `%name0%`, is dropped as it has no pim sparse or dense configured.

Message Parameters

Name	Type
name0	VLAN

pim.debug.ProcCacheMissMsg

Description

The cache message for given s,g,iif being processed.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received cache miss for source, `%ip0%`, group, `%ip1%`, invlan `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
nm	VLAN

pim.debug.SetFirstHopFlag

Description

The cache miss has been detected to be for a stream originating from host connected to one of the vlans. Such streams are treated differently in PIM-SM as explained in the RFC.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

First hop flag is set for stream, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.CreatCacheEnt

Description

PIM-SM: Going to create a new cache entry for given S/G.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Going to create cache entry for stream, %ips%/%ipd%.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.CreatShadEntFail

Description

PIM learns the source addresses when the last hop is in shared tree. Each new source is added in internal database. The message shows that source could not be added in database. This could happen mainly because of memory alloc failure.

Remedy

Check memory stats for the interface for PIM. If nothing wring is found, contact tech support.

Severity

Error

Message Text

Could not create a shadown entry on RPT tree for source, %ips%.

Message Parameters

Name	Type
ips	IPaddrN

pim.debug.SwitchSPTModeTry

Description

Since the (*,g) entry has local membership try to switch to SPT tree.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Switch to SPT tree, if possible for source, `%ips%`, group, `%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.AddSPTFDB

Description

After switching to SPT tree, if the ingress of (*,g) and (s,g) is the same the (s,g) is added to the FDB.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Add new (s,g) FDB, `%ips%`/`%ipd%`, as the ingress of (s,g) and (*,g) is the same.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.AddRPTFDB

Description

Either switch to SPT tree failed or (*,g) and (s,g) has different ingress. In such condition FDB for the shadow entry is added to forward packet coming on the shared tree. The FDB entry is removed when the switch gets a packet on SPT tree.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Add FDB for shadow entry, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.CheckPktCnt

Description

On shared tree the data packet rate is measured. When the configured threshold exceeds the last hop switches to SPT tree. The message shows that the rate would be checked for the given multicast stream.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

On shared tree, check for traffic rate for source, `%ips%`, group `%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.ProcTimeExp

Description

Going to process PIM timer for n seconds.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Processing PIM timer for `%num0%` seconds.

Message Parameters

Name	Type
num0	sInt

pim.debug.SndEpmMsg

Description

Sending hello to EPM from the given thread.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending update to epm from `%name%` thread.

Message Parameters

Name	Type
name	String

pim.debug.TermAllTaskDone

Description

Debug message to show that all the thread has finished its job.

Remedy

This message should neven appear. Please contact tech support on seeing this.

Severity

Error

Message Text

All PIM task terminated.

pim.debug.InitRawSockFail

Description

Error found for raw socket creation.

Remedy

Contact tech support.

Severity

Error

Message Text

Error in creating and initializing raw socket for PIM.

pim.debug.InitEMSFail

Description

PIM could not register one of the components with EMS. Process cannot be started unless this succeeds.

Remedy

This is an error condition, please contact tech support.

Severity

Error

Message Text

Failed to register `%name%` component with EMS.

Message Parameters

Name	Type
name	String

pim.debug.InitDSFail

Description

PIM is unable to initialize an internal service which is required for correct protocol operation. This error is not expected and is indicative of a serious problem.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Critical

Message Text

Unable to initialize an internal service.

pim.debug.StrtPimMsg

Description

Pim has started to listen for PIM messages.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM has started listening for PIM messaged with status, `%num0%`.

Message Parameters

Name	Type
num0	sInt

pim.debug.StrtMcmMsg

Description

PIM has started listening for messages from MCM.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Pim has started to listen for MCM message with status, %num0%.

Message Parameters

Name	Type
num0	sInt

pim.debug.InitDsptchOK

Description

PIM registered to dispatcher and EPM.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Dispatched initilalization done.

pim.debug.AllocMemFail

Description

Memory allocation failed.

Remedy

Check the available memory on the system. The remedy would be taken internally, however, if the memeory exhaustion is unexpected, please contact tech support.

Severity

Warning

Message Text

Failed to allocate memory at %st%, %num%.

Message Parameters

Name	Type
st	String
num	sInt

pim.debug.CreatPimVlanFail

Description

For each vlan on which pim is configured, PIM creates an internal database to keep track of state and stats on the vlan. The message shows the failure while attempting to create the internal db.

Remedy

Check memory status and contact tech support.

Severity

Error

Message Text

New PIM interface corresponding to vlan, `%nm%`, could not be created.

Message Parameters

Name	Type
nm	VLAN

pim.debug.DelPimVlanFail

Description

The vlan may not be configured for PIM, so it could not be found while deleting.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM vlan corresponding to vlan, %nm%, could not be found.

Message Parameters

Name	Type
nm	VLAN

pim.debug.TermPimDone

Description

Epm is shutting down PIM.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

PIM shutdown initiated through EPM.

pim.debug.UnregPimCompFail

Description

The interface unregisters itself to receive packets with destination address 224.0.0.13, when PIM is disabled. The message shows that the unregsiter process failed.

Remedy

Contact tech support.

Severity

Error

Message Text

Unable to unregister for 224.0.0.13 address on socket for vlan, %nm%.

Message Parameters

Name	Type
nm	VLAN

pim.debug.RegPimCompFail

Description

The interface registers itself to receive PIM packets when PIM is enabled. The message shows that the register process failed.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Unable to register for 224.0.0.13 address on socket for vlan, `%nm%`.

Message Parameters

Name	Type
nm	VLAN

pim.debug.GetVlanIndxOK

Description

Getting kernel if index for vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Got kernel if index for vlan `%name0%` as `%num0%`.

Message Parameters

Name	Type
name0	VLAN
num0	sInt

pim.debug.DumpVlanData

Description

Show the vlan information learnt by PIM..

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Vlan Name `%name0%`, ip `%ip0%`, masklen `%num0%`, id `%num1%`.

Message Parameters

Name	Type
name0	VLAN
ip0	IPaddrN
num0	sInt
num1	sInt

pim.debug.AddNbrFail

Description

The neighbor address in the hello packet was not in the same subnet as interface, so was rejected.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Adding nbr `%ip0%`, on pim interface, `%nm%`, failed.

Message Parameters

Name	Type
ip0	IPaddrN
nm	VLAN

pim.debug.FreeRouteData

Description

The route to a destination is cached in PIM such that the next lookup could be done locally. When this cached route is not being used, its freed.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Delete cached route in PIM to destination, `%ip0%`, as it is no longer used.

Message Parameters

Name	Type
ip0	IPaddrN

pim.debug.ProcRegStopMsgFail

Description

Register stop message is applied only for the matchin cache entries. The message just shows that the cache with different source is being skipped.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

The register stop for `%ip0%`, could not be applied to cache with source, `%ips%`.

Message Parameters

Name	Type
ip0	IPaddrN
ips	IPaddrN

pim.debug.GetRpGrpEnt

Description

Trying to get group db in the RP database.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Get the group entry for, `%ipd%`, in the RP-Group mapping database.

Message Parameters

Name	Type
ipd	IPaddrN

pim.debug.GetRpGrpEntFail

Description

This message means there have been internal error while creating group to RP mapping.

Remedy

Unexpected error happened. Please contack tech support.

Severity

Error

Message Text

Could not get group entry for, `%ipd%`, unexpectedly.

Message Parameters

Name	Type
ipd	IPaddrN

pim.debug.RegDstRoute

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%name0%` route to destination, `%ip0%`.

Message Parameters

Name	Type
name0	String
ip0	IPaddrN

pim.debug.LkupDstRouteFail

Description

Reverse path lookup failed as route to source could not be found while creating PIM cache entry.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Reverse path lookup failed for source address, `%ip0%`.

Message Parameters

Name	Type
ip0	IPaddrN

pim.debug.FndLocRoute

Description

Route to destination was found in pim route database. The route is stored locally after getting the result from route manager. For the subsequent lookup for the same destination route manager need not be consulted. The cached route is learnt.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Cached route found for destination `%ip0%`.

Message Parameters

Name	Type
ip0	IPaddrN

pim.debug.GetRoute

Description

The route for the given destination could not be found, so route manager is going to be asked for the route to the destinantion.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

New route lookup for `%ip0%`.

Message Parameters

Name	Type
ip0	IPaddrN

pim.debug.LkupRouteNull

Description

Route manager don't have any route to the given destination.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

No route could be found in routing table for destination, `%ip0%`.

Message Parameters

Name	Type
ip0	IPaddrN

pim.debug.AddMcCacheFail

Description

A new cache could not be created. This could happen because of memory alloc failure.

Remedy

If the problem persists contact tech support.

Severity

Warning

Message Text

Could not add cache, `%ips%/%ipd%/%iprp%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
iprp	IPaddrN

pim.debug.GetEgrCacheFail

Description

Internal error, probably due to memory exhaustion.

Remedy

Contact tech support.

Severity

Error

Message Text

Could not find/allocate egress entry for, `%nm%`, on cache, `%ips%/%ipd%` .

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.debug.CalcPktCntFail

Description

Error occured while trying to update the packet rate for the stream on RPT tree.

Remedy

Contact tech support..

Severity

Error

Message Text

Failed to calculate data rate from stream, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.ChgSPTModeRtrn

Description

SPT threashold is not reached for the stream, so the stream stays on the RPT tree.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Switching to SPT tree failed because of insufficient rate `%dl%` of the stream, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
dl	sInt
ips	IPaddrN
ipd	IPaddrN

pim.debug.TxTrigCRPMsg

Description

If the CRP interface is deleted, or is going down, it sends a poisonned CRP advertisement to BSR, for faster RP convergence.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending poison reversed CRP message for CRP, `%ip0%`, as the interface is going down.

Message Parameters

Name	Type
ip0	IPaddrN

pim.debug.ChgRouteSgCache

Description

Route change being applied to the given cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%name0%` route change is being applied to S,G cache, `%ips%`/`%ipd%`/`%rp%`

Message Parameters

Name	Type
name0	String
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.debug.ChgRouteSgCacheRtrn

Description

THe add route notification got from the route manager cannot be applied to the cache. There can be situation when the same message could be applicable for other cache but fail for remaining.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Add route could not be incorporated in the cache, as the new route is less specific than the route being used by cache.

pim.debug.AddRouteSgCache

Description

The add route message from route manager is being applied to replace the existing route on the given cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

New route to %ipa%, would replace the existing route being used by cache, %ips%/%ipd%. New upcoming interface, %nm%, new gateway, %ipg%.

Message Parameters

Name	Type
ipa	IPaddrN
ips	IPaddrN
ipd	IPaddrN
nm	VLAN
ipg	IPaddrN

pim.debug.ChgIngVlanSgCache

Description

The route to source changed to change the ingress interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Ingress interface for cache, %ips%/%ipd%, changed from %nm0% to %nm1%.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
nm0	VLAN
nm1	VLAN

pim.debug.RecvRoute

Description

When a route for registered prefix changes or become available route manager notifies the client. The message shows up for such a notification.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received route information for destination `%ip0%`/`%bitsmask%`, with ingress vlan `%nm%`, gateway `%gw%`

Message Parameters

Name	Type
ip0	IPaddrN
nm	VLAN
bitsmask	sInt
gw	IPaddrN

pim.debug.UpdtRouteData

Description

On receiving the notification for a new route the old route was replaced. So the old cached route is being deleted.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Deleting route to detination, `%ip0%`, as its not being used in PIM.

Message Parameters

Name	Type
ip0	IPaddrN

pim.debug.DelRouteData

Description

Deleting cached route for the given destination.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Deleting cached route to destination, `%ip0%`.

Message Parameters

Name	Type
ip0	IPaddrN

pim.debug.RfrshRouteData

Description

The un-referred routes are deleted in PIM, peridically.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Periodic refresh for the cached route database under progress.

pim.debug.DelPimCache

Description

Delete PIM cache entry.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Delete PIM cache, `%ips%`/`%ipd%`/`%rp%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.debug.TmoutCacheEnt

Description

Entry timer for the given cache expired. This happens because the stream may have stopped coming on to the switch.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Entry timer expired to `%num0%`, for cache, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
num0	sInt
ips	IPaddrN
ipd	IPaddrN

pim.debug.RecvPktCnt

Description

For the strem on shared tree packet rate is monitored, to check if the rate is still below the threshold. If the threshold is exceeded the stream is switched to SPT tree mode.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received the rate `%dl%` for stream, `%ips%`/`%ipd%`, on shared tree.

Message Parameters

Name	Type
dl	sInt
ips	IPaddrN
ipd	IPaddrN

pim.debug.RecvPktCntRtrn

Description

The packet count is sent by mcmgr as directed by PIM. The message shows up if the entry type sent by MCM is unsupported.

Remedy

Unexpected message received from MCM. Not necessarily an error condition. The used may want to inform tech support.

Severity

Warning

Message Text

Received packet count for unsupported entry type, `%num0%` for s/g `%ips%`/`%ipd%`.

Message Parameters

Name	Type
num0	sInt
ips	IPaddrN
ipd	IPaddrN

pim.debug.AddRouteMsg

Description

Route manager sent a new route.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received route reachable message for destination, `%ips%`, masklen, `%num0%`.

Message Parameters

Name	Type
ips	IPaddrN
num0	sInt

pim.debug.RecvRouteMsg

Description

Received message from route manager of the given type.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Message type `%nm%` received from route manager.

Message Parameters

Name	Type
nm	String

pim.debug.DelRouteMsg

Description

Route manager sent a del route message.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received route not reachable message for destination, `%ips%`, masklen, `%num%`.

Message Parameters

Name	Type
ips	IPaddrN
num	sInt

pim.debug.InitRtMgrDone

Description

Shows the result of regsitering with route manager. The %num1% is the internal id to be used to receive the messages from the route manager, %num2% is the id on which route lookup message would be sent.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Registered with route manager with return value, `%num0%`, rtMgrDataPeerId `%num1%`, NotifPeerId, `%num2%`..

Message Parameters

Name	Type
num0	sInt
num1	sInt
num2	sInt

pim.debug.InitCacheFail

Description

Internal error while creating socket to regsiter with MCM.

Remedy

Contact tech support.

Severity

Error

Message Text

CacheService init failed.

pim.debug.GetRegIndx

Description

Shows the ID used to tell the kernel to send unicast register message.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

The kernel index to be used for sending register message is `%num0%`.

Message Parameters

Name	Type
num0	sInt

pim.debug.RegMCMDone

Description

The peer id to be used to get the messaged from MCM and route manager.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Registered PIM with MCM and cache manager. The peer IDs are, `%num0% %num1%`.

Message Parameters

Name	Type
num0	sInt
num1	sInt

pim.debug.ClrEgrIGMPJoin

Description

While inherinting the egress from (s,g)rpt, clearing the IGMP join flag on egress if the vlan doesn't have the IGMP membership for the group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Clearing IGMP join on vlan, `%nm%` on cache, `%ips%/%ipd%`.

Message Parameters

Name	Type
nm	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.debug.ChgRoutZgCache

Description

Route change being applied to the given cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%name0%` route change is being applied to *,G cache, `%ips%`/`%ipd%`/`%rp%`

Message Parameters

Name	Type
name0	String
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.debug.AddRouteZgCache

Description

The add route message from route manager is being applied to replace the existing route on the given cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

New route to %ipa%, would replace the existing route being used by (*,g) cache, %ipr%/%ipd%. New upcoming interface, %nm%, new gateway, %ipg%.

Message Parameters

Name	Type
ipa	IPaddrN
ipr	IPaddrN
ipd	IPaddrN
nm	VLAN
ipg	IPaddrN

pim.debug.DelRouteZgCache

Description

Deleting the route existing route being used for RP reachability.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Route to RP is being deleted for (*,g) cache, %ips%/%ipd%/%rp%.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.debug.DelZgCacheNull

Description

The delete route message resulted in the cache delete. The reason could be becuase there was no alternate route present in the routing table or the ingress pointed by new route is down or has PIM disabled.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Removing (*,g) cache, `%ips%`/`%ipd%`/`%rp%`, because the new route is `%nm1%` or because of `%nm2%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN
nm1	String
nm2	String

pim.debug.ChgIngVlanZgCache

Description

The route to source changed to change the ingress interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Ingress interface for cache, %ips%/%ipd%/%rp%, changed from %nm0% to %nm1%.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN
nm0	VLAN
nm1	VLAN

pim.debug.ChgRouteRef

Description

The add or delete route change callback was received, but there was no change in ingress vlan or gateway information. However the route reference is changed to this new one so that the future update could be referred to this new cached route.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Replacing route reference for cache, %ips%/%ipd%/%rp%, however, no ingress or gateway change.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.debug.UpdtRPDenseCache

Description

Elected RP change is being applied to the given cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Applying RP change from, `%ip2%` to `%ip3%` on dense mode cache entry, `%ips%/%ipd%`.

Message Parameters

Name	Type
ip2	IPaddrN
ip3	IPaddrN
ips	IPaddrN
ipd	IPaddrN

pim.debug.UpdtRPSparseCache

Description

Elected RP change is being applied to the given cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Updating the sparse mode cache, `%ips%/%ipd%/%rp%`, for RP change.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN

pim.debug.LkupPimVlanFail

Description

Pim message received on unexpected interface on which PIM is not enabled.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Pim interfce could not be found for id `%num0%`.

Message Parameters

Name	Type
num0	sInt

pim.debug.RxRegMsg

Description

Received register message from first hop router.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received register message.

pim.debug.RxJoinPktUnk

Description

Join-prune is excepted only if the sender is accepted as neighbor before.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Join-prune packet received from `%ip0%` is dropped as its not in the neighbor list of pim interface `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
nm	VLAN

pim.debug.RxBSRPkt

Description

Received bootstrap message from the given neighbor.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received bootstarp packet from `%ip0%` on vlan `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
nm	VLAN

pim.debug.RxPktUnk

Description

Packet type in the pim is unsupported..

Remedy

Informational message only, for debug purpose.

Severity

Notice

Message Text

PIM packet with unknown type, `%num0%`, received.

Message Parameters

Name	Type
num0	sInt

pim.debug.SetSockParm

Description

Socket set operation failed. This may happen because of an internal error.

Remedy

Contact tech support.

Severity

Error

Message Text

Error while setting socket option, %nm%, before transmitting pim packet.

Message Parameters

Name	Type
nm	String

pim.debug.TxPktFail

Description

The send system call failed with the return code.

Remedy

Contact tech support.

Severity

Error

Message Text

Packet transmit unsuccessful. Returned error code, %num%, error message, %msg%.

Message Parameters

Name	Type
num	sInt
msg	String

pim.debug.InitSockParm

Description

PIM failed to set an option on a socket used for internal communication. Failure to set correct socket options may result in incorrect operation of PIM protocol.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Critical

Message Text

Error while setting socket option, `%nm%`.

Message Parameters

Name	Type
nm	String

pim.debug.CreatTCPSockFail

Description

PIM failed to create a socket used for internal communication. Socket creation failures may result in incorrect operation of PIM protocol.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Critical

Message Text

Failed to create PIM raw socket.

pim.debug.RxPktInv

Description

Receive operation on the PIM socket failed with error code.

Remedy

If the message shows up persistently, contact tech support.

Severity

Notice

Message Text

Packet receive failed with error code `%nm%`.

Message Parameters

Name	Type
nm	sInt

pim.debug.RxPktSizInv

Description

Received packet size is less than that IP header packet size.

Remedy

If the message shows up persistently, contact tech support.

Severity

Notice

Message Text

Packet received has size, `%num%`, less than size of IP header.

Message Parameters

Name	Type
num	sInt

pim.debug.TermMsgTask

Description

This is an unexpected event. Message receive task should not fail.

Remedy

Contact tech support.

Severity

Error

Message Text

PIM message received task is being terminated.

pim.debug.RecvRouteMsgOK

Description

Message received from route manager about a route update.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received message from route manager peer, `%num0%` of size `%num2%`.

Message Parameters

Name	Type
num0	sInt
num2	sInt

pim.debug.RecvMsgUnk

Description

Received message from unexpected peer.

Remedy

If the message shows up persistently, contact tech support.

Severity

Notice

Message Text

Receive message from unexpected peer, `%num0%`.

Message Parameters

Name	Type
num0	sInt

pim.debug.RecvCacheMissMsg

Description

Received MCM message of 'cache-miss' type. This means kernel received a multicast stream which had no matching cache entry.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received cache miss message from MCM.

pim.debug.RecvWrongIfMsg

Description

Received a cache miss for a stream coming from unexpected interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received wrong ingress message from MCM.

pim.debug.RecvIGMPAddMsg

Description

Received notification for new membership add on a vlan for the given group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Received igmp membership add message from MCM for source `%ip0%`, group `%ip1%` on vlan `%if1%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
if1	String

pim.debug.RecvCacheRateMsg

Description

Received cache rate update from MCM. This message used in updating PIM timer etc.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received stream rate update message from MCM for cache, `%ips%`/`%ipd%`, with rate, `%num0%`

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
num0	sInt

pim.debug.RecvMcmMsgUnk

Description

The message should not come up unless, the pim and mcmgr processs are not compatible.

Remedy

Contact tech support.

Severity

Notice

Message Text

Received message from MCM of unknown type, `%num0%`.

Message Parameters

Name	Type
num0	sInt

pim.debug.LkupRouteSucc

Description

Route lookup for the address has succeeded in the local PIM database.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Cached route found for destination, `%ip0%`.

Message Parameters

Name	Type
ip0	IPaddrN

pim.debug.SndMcmMsg

Description

For give src/grp pair a message is being sent to MCM.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending message to Mcm for cache %ip0%/%ip1%.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.debug.AllocCacheMemFail

Description

Memory out of condition has resulted into failure in cache creation.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Pim cache creation failed for lack of memory.

pim.debug.GetVlanIndxFail

Description

Getting kernel if index for vlan has failed.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Kernel i/f index for vlan %name0% could not be found.

Message Parameters

Name	Type
name0	VLAN

pim.debug.CreatIpmcCache

Description

Cache miss is received for s,g not already in kernel.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Creating new cache for src/grp.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.CreatIpmcCacheFail

Description

Cache could not be created for S,G.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Failed to create new cache for src/grp, `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.TrySharedTreeFwd

Description

Cache could not be created for s,g.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Trying to forward packet on shared tree, `%ips%`/`%ipd%` .

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.ChkRegMsg

Description

Message indicates that a register message is to be sent to RP

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Register to RP, `%rp%`, is required for `%ips%`/`%ipd%`.

Message Parameters

Name	Type
rp	IPaddrN
ips	IPaddrN
ipd	IPaddrN

pim.debug.LkupHwCacheDtect

Description

Message indicates that on first hop the cache is already programmed in h/w.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Hardware cache already programmed for `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.RxPktOnSG

Description

Indicates that packet is received on (s,g) tree. It will result into (s,g)rpt prune towards RP.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received first packet on S,G tree for `%ips%`/`%ipd%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN

pim.debug.ChkSgRptPrune

Description

Checking if the (*,g) entry has different ingress than (s,g) entry The message indiacates that it is, and thus a (s,g)rpt prune could be generated towards RP.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

(*,g) entry with different ingress, `%num%`, exists for `%ips%`/`%ipd%`.

Message Parameters

Name	Type
num	sInt
ips	IPaddrN
ipd	IPaddrN

pim.debug.SetSockVlan

Description

Socket set operation failed. This may happen if vlan mgr and pim db is out of sync. If it happens regularly pl contact tech support.

Remedy

Contact tech support.

Severity

Debug-Summary

Message Text

Error while setting socket option, `%nm%`, before transmitting pim packet to vlan `%name0%`.

Message Parameters

Name	Type
nm	String
name0	VLAN

pim.debug.RcvVlanMsg

Description

Strictly debug message received from vlan module.

Remedy

None.

Severity

Debug-Data

Message Text

Received vlan message, %nm%, for vlan %name0%

Message Parameters

Name	Type
nm	String
name0	VLAN

pim.debug.DelSgCacheNull

Description

The delete route message resulted in the cache delete. The reason could be becuase there was no alternate route present in the routing table or the ingress pointed by new route is down or has PIM disabled.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Removing (s,g) cache, %ips%/%ipd%/%rp%, because the new route is %nm1% or because of %nm2%.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
rp	IPaddrN
nm1	String
nm2	String

pim.debug.PimVlanUnk

Description

If this message is printed somewhere we are trying to do PIM operation on non PIM interface. This should be reported to Extreme TAC. However, this message doesn't affect any regular PIM operation.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Trying to find IGMP membership on an intfc that does not have PIM enabled anymore. Called from `%nm1%`(), line#`%num2%`

Message Parameters

Name	Type
num	sInt
nm1	String
num2	sInt

pim.debug.InvalidRouteRefCount

Description

The reference count to the route is already 0. No need to decrement reference count anymore. PIM's route cache entry will be freed up.

Remedy

Informational message only. Used for debug purposes.

Severity

Debug-Summary

Message Text

While attempting to free route to destination `%dest%`, reference count to this route was already `%ref%`.

Message Parameters

Name	Type
ref	sInt
dest	IPaddrN

pim.debug.RecvRouteError

Description

When a route for registered prefix changes or become available route manager notifies the client. This message is called when there is some internal error while processing this route.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

pim.debug.Log

Description

This is used strictly for developers debugging. The idea is for developer to have a way to quickly add debug messages while debugging their code. Ideally, all of these messages should be removed or converted to more meaningful messages before releasing the product.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%log%
```

Message Parameters

Name	Type
log	Printf

pim.debug.PostUrtCallback

Description

This message is called after calling pimUrtCallback(). In pimUrtCallback() the entire multicast cache is traversed. This may result in and old route's cache entry or new route's cache entry not to get updated correctly due to MSDP registering for the same route too. We use this message for debugging purposes to make sure we are handling the above situation correctly.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

pim.debug.PktRxedOnDisVlan

Description

Pim message received on unexpected interface on which PIM is not enabled.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

PIM control packet received on vlan `%vlan%` on which PIM protocol is disabled. Drop

Message Parameters

Name	Type
vlan	VLAN

pim.debug.RPchgFHRdelSG

Description

RP has changed, and we are not RP anymore. If were were First-Hop-Router for this (S, G), then we should remove this entry, and re-create it with the next cache miss.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

RP has changed, and we are not RP anymore, and we were FHR. Del cache entry for (S,G) [`%src%`, `%grp%`]

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.debug.BypassIGMP

Description

This message is called when PIM does not create an IGMP entry when it receives an IGMPAdd message.

Remedy

We may have to clear IGMP snooping for the Vlan, Group which was printed in this message. This would enable PIM to get in sync with IGMP.

Severity

Warning

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

pim.debug.AddIGMPEntry

Description

This message is called when PIM creates an IGMP entry when it receives an IGMPAdd message.

Remedy

This is a debug message. There is no problem, so nothing to resolve.

Severity

Debug-Summary

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

pim.debug.RecvIGMPDelMsgAll

Description

This message is called when PIM receives an IGMP Delete message from MCMGR. This will delete all IGMP entries.

Remedy

This message is informational. There is no problem, so nothing to resolve.

Severity

Debug-Summary

Message Text

Received message from MCM to delete all IGMP membership entries

pim.debug.RecvIGMPDelMsg

Description

This message is called when PIM receives an IGMP Delete message for a specific Group on a Vlan from MCMGR.

Remedy

This message is informational. There is no problem, so nothing to resolve.

Severity

Debug-Summary

Message Text

Received IGMP membership DEL message from MCM for Group `%ip0%`, on vlan `%if1%`

Message Parameters

Name	Type
ip0	IPaddrN
if1	String

pim.debug.SndMcmQFull

Description

For give src/grp pair a message is being sent to MCM.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Message to Mcm for cache `%ip0%`/`%ip1%` is not sent immediately because there are other entries already in the queue.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.debug.RecvIGMPMemAbnormal

Description

Received notification for new membership add on a vlan for the given group. Memory state is not normal.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Received igmp ADD message from MCM for source `%ip0%`, group `%ip1%` on vlan `%if1%`. Mem state not normal.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
if1	String

pim.debug.queryMbrVlan

Description

PIM is querying MCM for IGMP membership on vlan. This is debug message.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

PIM is querying MCM for IGMP membership groups on vlan `%index%`

Message Parameters

Name	Type
index	uInt

pim.debug.IgmpRtifNull

Description

This message is called when PIM does not create an IGMP entry when it receives an IGMP Add message. The entry was not created because the RtIf was Null.

Remedy

We may have to clear IGMP snooping for the Vlan, Group which was printed in this message. This would enable PIM to get in sync with IGMP.

Severity

Warning

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

pim.debug.IgmpCircNull

Description

This message is called when PIM does not create an IGMP entry when it receives an IGMP Add message. The entry was not created because PIM was not yet enabled on this vlan.

Remedy

We may have to clear IGMP snooping for the Vlan, Group which was printed in this message. This would enable PIM to get in sync with IGMP.

Severity

Debug-Data

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

pim.debug.IgmpCircDown

Description

This message is called when PIM does not create an IGMP entry when it receives an IGMP Add message. The entry was not created because PIM's interface was down.

Remedy

We may have to clear IGMP snooping for the Vlan, Group which was printed in this message. This would enable PIM to get in sync with IGMP.

Severity

Debug-Data

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

pim.debug.IgmpV3Ssm

Description

This message is called when PIM receives a Source address where the Group is not in SSM range. Or, when we receive a Source address is 0, but the Group address is within the SSM range

Remedy

We may have to clear IGMP snooping for the Vlan, Group which was printed in this message. This would enable PIM to get in sync with IGMP.

Severity

Warning

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

pim.debug.IgmpV3NonIncl

Description

This message is called when PIM receives a Source address where the mode is non-Include.

Remedy

We may have to clear IGMP snooping for the Vlan, Group which was printed in this message. This would enable PIM to get in sync with IGMP.

Severity

Warning

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf

pim.debug.IgmpExists

Description

This message is called when PIM receives a IGMP report where the Group's membership entry already exists in PIM.

Remedy

We may have to clear IGMP snooping for the Vlan, Group which was printed in this message. This would enable PIM to get in sync with IGMP.

Severity

Debug-Data

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

pim.debug.IgmpDelGroupAll

Description

This message is called when PIM receives a delete message from MCM with group address set to 0. All the group entries on this vlan will get deleted.

Remedy

We may have to clear IGMP snooping for the Vlan, Group which was printed in this message. This would enable PIM to get in sync with IGMP.

Severity

Debug-Summary

Message Text

Received DEL message from MCM on vlan `%vlan%`, group `%gaddr%`. Deleting all groups on this interface.

Message Parameters

Name	Type
vlan	String
gaddr	IPaddrN

pim.debug.DelRpGrpEnt

Description

Delete group db in the RP database.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Delete the group entry for, `%ipd%`, in the RP-Group mapping database.

Message Parameters

Name	Type
ipd	IPaddrN

pim.debug.CreateRpGrpEnt

Description

Create a group db in the RP database.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Created the group entry for, `%ipd%`, in the RP-Group mapping database.

Message Parameters

Name	Type
ipd	IPaddrN

pim.debug.CnvSgrptDelIngrFromEgr

Description

While converting a SGRPT cache entry into an SG entry, need to remove the Up-interface (Ingress-vlan) from the Egress Vlan list.

Remedy

This is debug information. No remedial action needed.

Severity

Debug-Summary

Message Text

Removing Up-interface vlan `%vlan%` from Egress list for (S, G, RP) [`%src%`, `%grp%`, `%rp%`]

Message Parameters

Name	Type
vlan	String
src	IPaddrN
grp	IPaddrN
rp	IPaddrN

pim.debug.CnvSgrptDelIngrFromPrn

Description

While converting a SGRPT cache entry into an SG entry, need to remove the Up-interface (Ingress-vlan) from the Pruned Vlan list.

Remedy

This is debug information. No remedial action needed.

Severity

Debug-Summary

Message Text

Removing Up-interface vlan `%vlan%` from Pruned list for (S, G, RP) [`%src%`, `%grp%`, `%rp%`]

Message Parameters

Name	Type
vlan	String
src	IPaddrN
grp	IPaddrN
rp	IPaddrN

pim.debug.RtReachable

Description

These EMS debug messages are logged when a route to a source which was unreachable earlier, becomes reachable.

Remedy

These messages are informational only during generic debugging. They do not indicate an error condition.

Severity

Debug-Summary

Message Text

`%log%`

Message Parameters

Name	Type
log	Printf

pim.debug.NoPimIntf

Description

This is used to display a warning message to indicate that source address is reachable through a L3 Interface upon which PIM is not enabled.

Remedy

This is debug information. No remedial action needed.

Severity

Debug-Summary

Message Text

Pim cache (`%source%`, `%group%`) source is reachable through RtIf (`%rtIfIndex%`), but PIM is not enabled on this RTIF

Message Parameters

Name	Type
source	IPaddrN
group	IPaddrN
rtIfIndex	xInt

pim.debug.SsmAck

Description

This is used for debugging SSM-RANGE-ACK message that PIM needs to receive from MCMGR.

Remedy

This is used for debugging purposes only.

Severity

Debug-Summary

Message Text

`%log%`

Message Parameters

Name	Type
log	Printf

pim.debug.CheckSsmFail

Description

This is used for notifying that PIM has not yet received SM-RANGE-ACK message from MCMGR.

Remedy

This is used for debugging purposes only.

Severity

Debug-Summary

Message Text

```
%log%
```

Message Parameters

Name	Type
log	Printf

pim.debug.BypassAsrtChkOnNonEgrIf

Description

If we receive data on an interface that is not in the Egress Interface list, then we should not be doing any kind of Assert checking on that interface.

Remedy

This is used for debugging purposes only.

Severity

Debug-Summary

Message Text

```
%log%
```

Message Parameters

Name	Type
log	Printf

pim.debug.SkipAsrtMsgOnNonEgrIf

Description

If we receive ASSERT message on an interface that is not in the Egress Interface list, then we should not even process it, and participate in an Assert contest on that interface.

Remedy

This is used for debugging purposes only.

Severity

Debug-Summary

Message Text

```
%log%
```

Message Parameters

Name	Type
log	Printf

pim.debug.RxJumboData

Description

Jumbo frame handling currently not supported. So any data whose size exceeds 7600 will be dropped.

Remedy

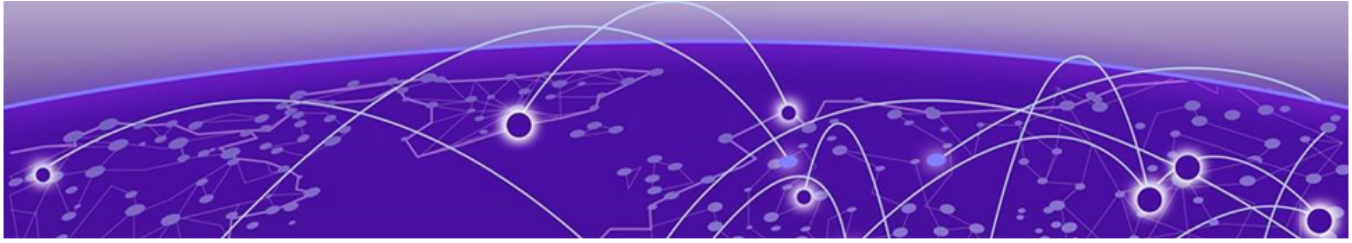
Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Jumbo data size exceeds 7600, Not given to MSDP.



pim.hello Messages

pim.hello.CreatNbr on page 4170
pim.hello.ChgNbrIndx on page 4171
pim.hello.ProcHelloMsgFail on page 4171
pim.hello.RecvHelloPkt on page 4172
pim.hello.RecvPimPkt on page 4173
pim.hello.ProcPktFail on page 4173
pim.hello.TxHelloPkt on page 4174
pim.hello.RxHelloCksumFail on page 4175
pim.hello.RxHelloVerFail on page 4175
pim.hello.RxHelloOnPassive on page 4176
pim.hello.RemDupScndAddr on page 4176

pim.hello.CreatNbr

Description

Adding new pim neighbor failed. %vlan0% : The pim enabled vlan on which neighbor is being created. %ip0% : IP address of neighor %ip1% : The ipaddress of the vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

`%vlan0%` Adding neighbor `%ip0%` in pim circuit `%ip1%` failed.\n

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ip1	IPaddrN

pim.hello.ChgNbrIndx

Description

Indicates that the neighbor's generation id has changed. Normally this happens because the pim neighbor went down and came back up.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` genid `%xnum0%` changed to `%xnum1%` for nbr `%ip0%`\n

Message Parameters

Name	Type
vlan0	VLAN
xnum0	xInt
xnum1	xInt
ip0	IPaddrN

pim.hello.ProcHelloMsgFail

Description

Unsupported option type found in the hello message from the pim neighbor.

Remedy

Noramlly such events are taken care of in the protocol. If adjacency is not established with the neighbor, please contact tech support.

Severity

Notice

Message Text

On `%vlan0%` could not process the option in hello message sent from `%ip%`. Unknown option type `%num0%`\n

Message Parameters

Name	Type
vlan0	VLAN
num0	sInt
ip	IPaddrN

pim.hello.RecvHelloPkt

Description

Received hello packet from the neighbor.

Remedy

Normal behabior.

Severity

Debug-Verbose

Message Text

Receiving Hello on `%vlana%` cid `%numa%` from `%ipa%`

Message Parameters

Name	Type
vlana	VLAN
numa	sInt
ipa	IPaddrN

pim.hello.RecvPimPkt

Description

Received a pim packet.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received pim `%typeStr%` packet of length `%len%` on `%ip0%` from `%ipa%` to `%dipa%`.

Message Parameters

Name	Type
typeStr	String
len	sInt
ip0	IPaddrN
ipa	IPaddrN
dipa	IPaddrN

pim.hello.ProcPktFail

Description

Pim packet is droopped as pim is disabled on vlan or globally.

Remedy

Ok to have this message, unless pim is expected to be up on the vlan. Try issuing command to diable and then enable pim on the vlan.

Severity

Warning

Message Text

Failed to process pim packet on vlan `%vlan0%` as pim interface is down or pim is disabled.

Message Parameters

Name	Type
vlan0	VLAN

pim.hello.TxHelloPkt

Description

Transmitting hello packet. %vlan0% : Hello sent out on this vlan. %num0% : packet length. %ip0% : Source address of the packet. %ip1% : Destination address of the packet.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Verbose

Message Text

`%vlan0%` Xmitting Hello pkt of len `%num0%` from src `%ip0%` to `%ip1%`\n

Message Parameters

Name	Type
vlan0	VLAN
num0	sInt

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.hello.RxHelloCksumFail

Description

The packet received on vlan which looks like to be pim hello message has failed the checksum test. Packet may be corrupted, so is being dropped.

Remedy

If the message persists there could be problem in the other switch, which is generating junk packets, or there could be problem on the line.

Severity

Warning

Message Text

`%vlan0%` chksum failure for hello message.

Message Parameters

Name	Type
vlan0	VLAN

pim.hello.RxHelloVerFail

Description

Version field in the received packet is set incorrectly. Expected value is 2.

Remedy

Check the pim confguration on the neighbor.

Severity

Warning

Message Text

`%vlan0%` version, `%num0%`, on the received pim packet from `%ip0%` is incorrect.

Message Parameters

Name	Type
vlan0	VLAN
num0	sInt
ip0	IPaddrN

pim.hello.RxHelloOnPassive

Description

Receiving hello message on a passive interface.

Remedy

Check the pim enabled host on the vlan, and disable pim on that.

Severity

Info

Message Text

Pim Hello message on `%vlan0%`, from `%ip0%` is dropped as Vlan is in passive mode.

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN

pim.hello.RemDupScndAddr

Description

The same secondary IPaddress has been configured on the PIM circuit which is advertised in the PIM hello messages from the PIM neighbor. That same secondary address was previously advertised by another neighbor and only the most recently received mapping will be maintained.

Remedy

Remove the duplicate secondary address from the any one of the VLAN. Use "show vlan <vlan_name>" to see the configured ipaddress on the VLAN and use "unconfig vlan <vlan_name> ipaddress <ip_address>" to remove the duplicate address from the VLAN.

Severity

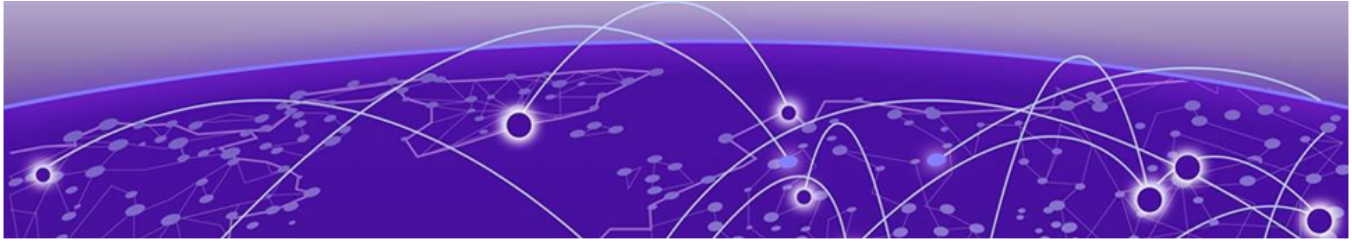
Warning

Message Text

Removing the duplicate secondary address `%addr1%` from `%nbr2%` which was received from `%nbr1%` in circuit `%vlan0%`.

Message Parameters

Name	Type
addr1	IPaddrN
nbr1	IPaddrN
vlan0	VLAN
nbr2	IPaddrN



pim.mcdbg Messages

pim.mcdbg.AddCacheEntTry on page 4178
pim.mcdbg.AddCacheGrpTry on page 4179
pim.mcdbg.AddCacheMaskTry on page 4179
pim.mcdbg.AddCacheGrp on page 4180
pim.mcdbg.DelCacheEnt on page 4180

pim.mcdbg.AddCacheEntTry

Description

Adding cache into db.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Adding cache, `%ips%`/`%ipd%`, to internal db in hash location `%num%`. The cache ptr `%ptr1%`.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
num	sInt
ptr1	Ptr

pim.mcdbg.AddCacheGrpTry

Description

Debug message to track the cache insertion process.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Found cache group location while inserting cache. Finding location for the source. Curr pointer, `%ptr0%`. Cache, (`%ips%`/`%ipd%`/)

Message Parameters

Name	Type
ptr0	Ptr
ips	IPaddrN
ipd	IPaddrN

pim.mcdbg.AddCacheMaskTry

Description

Debug message to track the cache insertion process..

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sorting mask while insterting cache. Current mask, `%ip0%`. Mask `%ip1%`.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.mcdbg.AddCacheGrp

Description

Debug message to track the cache insertion process..

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Inserting cache for group, `%ipd%`, `%nm%` group address `%ip0%`

Message Parameters

Name	Type
ipd	IPaddrN
nm	String
ip0	IPaddrN

pim.mcdbg.DelCacheEnt

Description

Debug message to track the cache deletion process.

Remedy

Informational message only, for debug purpose.

Severity

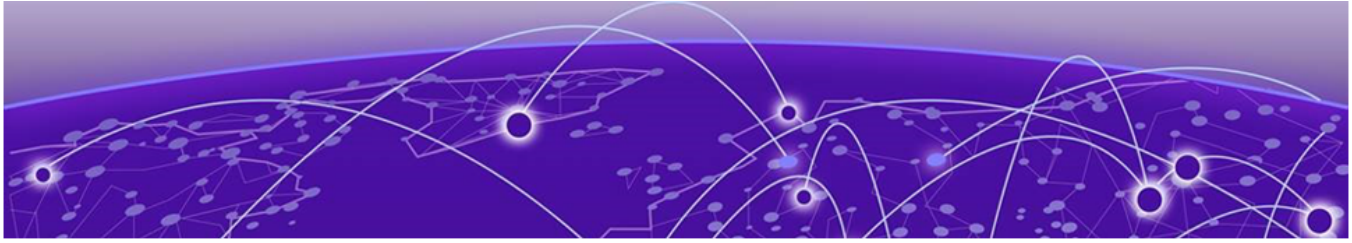
Debug-Data

Message Text

Deleting cache, `%ips%`/`%ipd%`/`%msk%`, from the cache database.

Message Parameters

Name	Type
ips	IPaddrN
ipd	IPaddrN
msk	IPmaskval



pim.mrinfo Messages

pim.mrinfo.RecvReq on page 4182
pim.mrinfo.SendRspns on page 4183

pim.mrinfo.RecvReq

Description

This log is displayed when PIM receives mrinfo request from multicast manager

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received mrinfo request from Multicast manager with fromAddr `%fromAddr%` toAddr `%toAddr%` for VR `%vrId%`

Message Parameters

Name	Type
fromAddr	IP
toAddr	IP
vrId	uInt32

pim.mrinfo.SendRspns

Description

This log is displayed when response is sent by PIM to multicast manager for the mrinfo request. There may be multiple responses from PIM for a single request. This log also indicates whether this response is the last one or not

Remedy

Informational message only, for debug purpose.

Severity

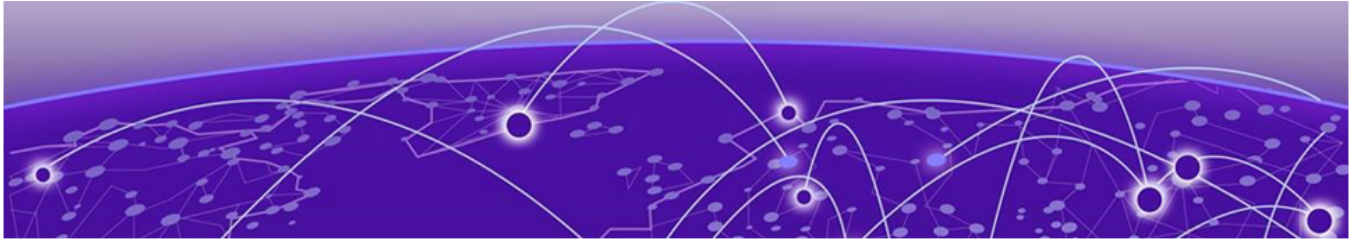
Debug-Data

Message Text

PIM - Sending response to Multicast manager for the mrinfo request from `%fromAddr%` toAddr `%toAddr%` of size `%pktLen%` on VR `%vrId%`. This is `%status%` the last packet.

Message Parameters

Name	Type
fromAddr	IP
toAddr	IP
pktLen	uInt16
vrId	uInt32
status	String



pim.msdp Messages

pim.msdp.Error on page 4184
pim.msdp.Warning on page 4185
pim.msdp.Notice on page 4185
pim.msdp.Info on page 4186
pim.msdp.DebugSummary on page 4186
pim.msdp.DebugVerbose on page 4187
pim.msdp.DebugData on page 4188
pim.msdp.RPchgRegSA on page 4188
pim.msdp.RPchgUnregSA on page 4189
pim.msdp.RPgoneUnregSA on page 4189
pim.msdp.Msg on page 4190
pim.msdp.debugErrMsg on page 4191
pim.msdp.EncapDataCreateCache on page 4191
pim.msdp.AllocMSDPMsgFail on page 4192

pim.msdp.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

pim.msdp.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

pim.msdp.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

pim.msdp.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

pim.msdp.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or

completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

pim.msdp.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

pim.msdp.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

pim.msdp.RPchgRegSA

Description

RP has changed, and we have become RP. We need to register this (S, G) as an SA message with MSDP.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

RP has changed, and we have become RP. Register SA message (S,G) [`%src%`, `%grp%`] with MSDP

Message Parameters

Name	Type
src	srcIP
grp	dstIP

pim.msdp.RPchgUnregSA

Description

RP has changed, and we are not RP anymore. We need to unregister this (S, G)'s SA message with MSDP.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

RP has changed, and we are not RP anymore. Unregister SA message (S,G) [`%src%`, `%grp%`] with MSDP

Message Parameters

Name	Type
src	srcIP
grp	dstIP

pim.msdp.RPgoneUnregSA

Description

RP has changed, and there is no RP anymore. We need to unregister this (S, G)'s SA message with MSDP.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

RP has changed, and there is no RP anymore. Unregister SA message (S,G) [`%src%`, `%grp%`] with MSDP

Message Parameters

Name	Type
src	srcIP
grp	dstIP

pim.msdp.Msg

Description

These logs indicate the messaging from PIM to MSDP and vice-versa from MSDP to PIM.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

pim.msdp.debugErrMsg

Description

This log message indicates a situation where PIM needs to unregister groups with MSDP on the remote end. The purpose of this debug log message was to catch this state.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

pim.msdp.EncapDataCreateCache

Description

A multicast data packet encapsulated in MSDP will make PIM on this RP to create a (S, G) cache entry.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

pim.msdp.AllocMSDPMsgFail

Description

PIM MSDP function takes msdpPimMsg pointer as one of its parameters. It makes a check if this parameter is null, in which case it allocates memory and starts filling in (S, G) requests in the allocated memory. This condition occurs when the malloc function returned null while trying to allocate the memory indicating that the process has gone out of memory.

Remedy

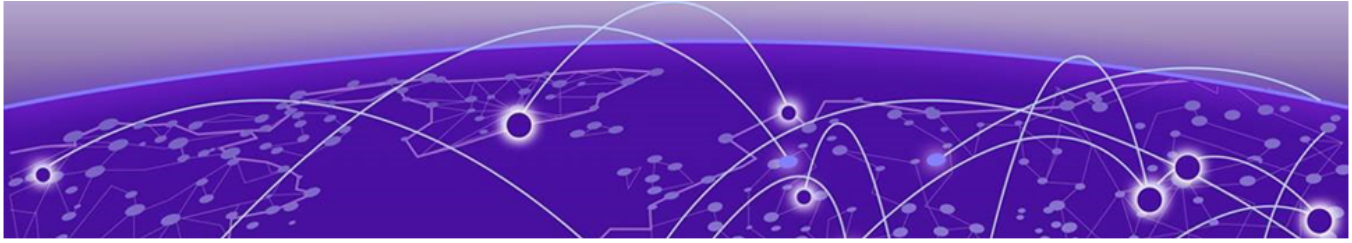
A possible remedy will be to use "show memory" and "show log" commands to monitor the memory statuses of different processes. Depending on the results of these commands, you can either change the system configuration or free up the system memory by ending processes which are currently not needed.

Severity

Critical

Message Text

Out of Memory. Cannot malloc MSDP message



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pim.msg.AddRptPrune on page 4203
pim.msg.AddZgJoin on page 4204
pim.msg.AddZgPrune on page 4205
pim.msg.AddZgJoinVldEgress on page 4205
pim.msg.CreatNbrJp on page 4206
pim.msg.WritNbrJpMsg on page 4206
pim.msg.EndNbrJpMsg on page 4207
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pim.msg.TxAsrtMsg

Description

Shows origination of assert message for group %grp% on egress num0/vlan0.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

`%vlan0%` Sending Pim assert. : `%ip0%`/`%grp%`, egress id `%num0%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
grp	IPaddrN
num0	sInt

pim.msg.ProcAsrtwinState

Description

Assert win case on a vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` pimAssertWeWin: `%ip0%/%grp%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
grp	IPaddrN

pim.msg.ProcAsrtloseState

Description

Assert lose case on vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` pimAssertWeLose: `%ip0%/%grp%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
grp	IPaddrN

pim.msg.ProcAsrtGrpDnst

Description

Processing downstream assert state machine on vlan for given cache entry.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` pimAsrtDnst: best matching: `%ip0%`/`%ip1%`(`%ip2%`)

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN

pim.msg.CmpAsrtData

Description

Compare the asser metric received with the metric on the cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` pimAsrtDnst: metric in: `%name0%-%num0%(%num1%)` ours: `%name1%-%num2%(%num3%)`

Message Parameters

Name	Type
vlan0	VLAN
name0	String
num0	sInt
num1	sInt
name1	String
num2	sInt
num3	sInt

pim.msg.ProcAsrtGrpUpst

Description

Processing assert state machine on incoming interface for the cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` Learning assert information on incoming interface: `%ip0%/%ip1%(%ip2%)` source ip `%ips%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN
ips	IPaddrN

pim.msg.ProcSparseJpPkt

Description

Processing sparse join of the given type.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` Processing join/prune for `%ips%`/`%ipd%`, Type : `%typ%`

Message Parameters

Name	Type
vlan0	VLAN
ips	IPaddrN
ipd	IPaddrN
typ	String

pim.msg.SchedUpstJoin

Description

Sechduling a join to be sent upstream for the cache as a result of learning an assert winner on infress vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` pimAsrtUpst: schedule join send to asrt winner for `%ips%`/`%ipd%`

Message Parameters

Name	Type
vlan0	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.msg.ProcAsrtMsg

Description

Message shows that an assert message is received on interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` pimProcAssert: `%ip0%`/`%ip1%` of `%name0%` tree

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN

Name	Type
ip1	IPaddrN
name0	String

pim.msg.BldJpPkt

Description

Building join prune packet to be sent on vlan for neighbor.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` processing grp `%ip0%` src `%ip1%` via `%ip2%`(`%num0%`) rp `%ip3%` via `%ip4%`(`%num1%`)

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN
num0	sInt
ip3	IPaddrN
ip4	IPaddrN
num1	sInt

pim.msg.AddSrcRptPrune

Description

Putting SGRPT prune in the join packet to neighbor.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` adding source, `%ip0%`, SGRPT prune list.

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN

pim.msg.SendGraftUp

Description

Sending graft upstream for cache.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` pimSendGraft: src `%ip0%`, grp `%ip1%`, una `%ip2%`, oif `%ip3%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ip1	IPaddrN

Name	Type
ip2	IPaddrN
ip3	IPaddrN

pim.msg.AddSrcPrune

Description

Putting SG prune in the join/prune packet to neighbor.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` adding `%ip0%` to prune list

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN

pim.msg.AddSrcJoin

Description

Putting SG join in the join/prune packet to neighbor.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` adding `%ip0%` to join list

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN

pim.msg.AddSrcRptPruneDiffIng

Description

Putting SGRPT prune in the join packet to neighbor because the neighbor is on different ingress than SG's ingress.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` adding `%ip0%` to SGRPT prune list

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN

pim.msg.AddRptPrune

Description

Putting SGRPT prune in the join packet to neighbor due to (s,g)rpt state.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` adding `%ips%` R to prune list for group `%ipd%`

Message Parameters

Name	Type
vlan0	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.msg.AddZgJoin

Description

Adding (s,g) join to join/prune packet for the given group towards given RP.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` adding `%ip0%` WR to join list for rp `%ipr%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ipr	IPaddrN

pim.msg.AddZgPrune

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` adding `%ip0%` WR to prune list for rp `%ipr%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ipr	IPaddrN

pim.msg.AddZgJoinVldEgress

Description

Adding (s,g) join to join/prune packet for the given group towards given R P because of positive egress state.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` adding `%ip0%` WR to join list towards RP `%ipr%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ipr	IPaddrN

pim.msg.CreatNbrJp

Description

Going to construct join prune packet to be sent to neighbor.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` constructing Join/Prune pkt from src `%ip0%` to `%ip1%`\n

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ip1	IPaddrN

pim.msg.WritNbrJpMsg

Description

Done creating join prune packet for given group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` done with group `%ip0%` joins `%num0%` prunes `%num1%`\n

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
num0	sInt
num1	sInt

pim.msg.EndNbrJpMsg

Description

Done creating join prune packet for all group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` done with all group joins `%num0%` prunes `%num1%`\n

Message Parameters

Name	Type
vlan0	VLAN
num0	sInt
num1	sInt

pim.msg.RxDenseJpMsg

Description

Going to process join prune packet on dense circuit.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` ProcJoinPrune on dense interface: joins `%num0%` prunes `%num1%`

Message Parameters

Name	Type
vlan0	VLAN
num0	sInt
num1	sInt

pim.msg.ProcDenseJoinMsg

Description

Going to process join part of the J/P packet received on dense circuit.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` ProcJoin on dense interface, packet received on src `%ip0%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN

pim.msg.ProcDensePruneMsg

Description

Going to process prune part of the J/P packet received on dense circuit.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` ProcPrune on dense interface, packet received on src `%ip0%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN

pim.msg.RxGraftPkt

Description

Received graft message on interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` ProcGraft: joins `%num0%` prunes `%num1%`

Message Parameters

Name	Type
vlan0	VLAN
num0	sInt
num1	sInt

pim.msg.ProcGraftPkt

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` Processing join portion in graft message for src `%ip0%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN

pim.msg.RxGraftAckPkt

Description

Received ack for graft message from vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` ProcGraftAck: joins `%num0%` prunes `%num1%`

Message Parameters

Name	Type
vlan0	VLAN
num0	sInt
num1	sInt

pim.msg.ProcGraftAckPkt

Description

Processing the graft ack for given source.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` ProcGraftAck: src `%ip0%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN

pim.msg.RxSparseJpPkt

Description

Received the sparse join prune packet with give number of join and prunes inside it.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` ProcJoinPrune: number of joins `%num0%` prunes `%num1%`

Message Parameters

Name	Type
vlan0	VLAN
num0	sInt
num1	sInt

pim.msg.ProcJpPkt

Description

Going to process join/prune for a single group out of the big join/prune packet.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` ProcJPG: handling `%ip0%`/`%num0%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
num0	sInt

pim.msg.ProcRegStopMsg

Description

Processing the register stop message on vlan for the given group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` pimProcRegStop: grp: `%ip0%`/`%num0%` src:`%ip1%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
num0	sInt
ip1	IPaddrN

pim.msg.TxMsg

Description

Transmitting message of given type on vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` Xmitting `%name0%`(`%num0%`) pkt of len `%num1%` from src `%ip0%` to `%ip1%`\n

Message Parameters

Name	Type
vlan0	VLAN
name0	String
num0	sInt
num1	sInt
ip0	IPaddrN
ip1	IPaddrN

pim.msg.RxMsgCksumFail

Description

Checksum failed on pim message received on the given vlan.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

`%vlan0%` chksum failure for pim message of length `%num0%`

Message Parameters

Name	Type
vlan0	VLAN
num0	sInt

pim.msg.RxMsgVerFail

Description

The version field in the pim packet should be 2. Other version type is not supported.

Remedy

Check the configuration on the neighboring switch. If they keep sending such packets, this wswitch may not be able to interoperate.

Severity

Warning

Message Text

`%vlan0%` version unsuported for pim message. Invalid version given `%num0%`, message type `%num1%`

Message Parameters

Name	Type
vlan0	VLAN
num0	sInt
num1	sInt

pim.msg.TxJoinUp

Description

Sending join/prune to neighbor.

Remedy

Informational message only.

Severity

Debug-Data

Message Text

Sending `%str0%` for src/grp `%ips%`/`%ipd%` to neighbor `%ipa%`.

Message Parameters

Name	Type
str0	String
ips	IPaddrN

Name	Type
ipd	IPaddrN
ipa	IPaddrN

pim.msg.ProcJoinPruneMsg

Description

Processing join/prune to neighbor.

Remedy

Informational message only.

Severity

Debug-Data

Message Text

Processing Join/Prune packet from `%ipa%`.

Message Parameters

Name	Type
ipa	IPaddrN

pim.msg.TxPartJoinPrunePkt

Description

Sending join prune packet of above length. Rest of join prune would be sent in subsequent packets.

Remedy

Informational message only.

Severity

Debug-Data

Message Text

Transmitting partial join/prune packet of len `%ln%`.

Message Parameters

Name	Type
ln	sInt

pim.msg.TxPktFail

Description

Error while sending the packet to kernel.

Remedy

Informational message only.

Severity

Notice

Message Text

`%tp%` packet send to `%ip0%` (size `%sz%`) fail with error `%str0%` (`%ln%`).

Message Parameters

Name	Type
tp	String
ip0	IPaddrN
sz	sInt
str0	String
ln	sInt

pim.msg.AddNameItemFail

Description

Error while adding name space to cli.

Remedy

contact tech support.

Severity

Error

Message Text

Could not add the new vlan, `%tp%`, to cli name-space..

Message Parameters

Name	Type
tp	VLAN

pim.msg.RxPktFail

Description

Error while receiving the packet to kernel.

Remedy

Internal error.

Severity

Error

Message Text

Error while receiving pim control packet on raw socket.

pim.msg.RxPimPkt

Description

Received a pim packet.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Received pim `%typeStr%` packet of length `%len%` on `%ip0%` from `%ipa%` to `%dipa%`.

Message Parameters

Name	Type
typeStr	String
len	sInt
ip0	IPaddrN
ipa	IPaddrN
dipa	IPaddrN

pim.msg.RxMsgDrop

Description

Received a pim packet.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Packet received on `%vl0%` from `%ip0%` rejected for access violation.

Message Parameters

Name	Type
vl0	VLAN
ip0	IPaddrN

pim.msg.DropTxGenRegMsg

Description

This source and group could have been denied in the register policy file if genrated register message dropped due to register policy.

Remedy

Check the register policy for First Hop Router(FHR) configuration in "show pim ipv4" or "show pim ipv6" command. If it is valid source and group then edit the policy file to permit this source and refresh it.

Severity

Warning

Message Text

Transmission of generated Register message from `%ipa1%`, destined to `%ipa2%` is dropped due to `%dropReason%`.

Message Parameters

Name	Type
ipa1	IPaddrN
ipa2	IPaddrN
dropReason	String

pim.msg.RfrshSSMTimer

Description

Processing sparse join and refreshing cache timer for SG cache as it is on SSM vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` Refreshing SSM cache timer for `%ips%`/`%ipd%`

Message Parameters

Name	Type
vlan0	VLAN
ips	IPaddrN
ipd	IPaddrN

pim.msg.TxPktError

Description

This message will be written when we were unable to transmit a PIM packet because the PIM circuit was not passed as a parameter. This is a software error.

Remedy

This is a software error, and Extreme's TAC personnel should be notified.

Severity

Notice

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

pim.msg.FHRSrcRptPruneDiffUpif

Description

If (*, G) entry exists, put SGRPT prune in the join packet to neighbor because the neighbor is on different ingress than SG's ingress. This message is logged on First-Hop-Router.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%vlan0%` add `%ip0%` to SGRPT prune list for Group `%ip1%` if (*,G) entry exists

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ip1	IPaddrN

pim.msg.SkipSendingGraftUp

Description

Do not send graft upstream because PIM neighbor is gone.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Graft not sent because PIM upstream nbr (una: `%ip2%`) is gone. Vlan:`%vlan0%`, Src:`%ip0%`, Grp:`%ip1%`, Oif :`%ip3%`

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ip1	IPaddrN

Name	Type
ip2	IPaddrN
ip3	IPaddrN

pim.msg.RxRegDrop

Description

This source and group could have been denied in the register policy file if the received register message dropped due to register policy. Switch could have the insufficient licenses if the received register message dropped due to insufficient license.

Remedy

Check the register policy for Rendezvous point(RP) configuration in "show pim ipv4" or "show pim ipv6" command. If it is valid source and group then edit the policy file to permit this source and refresh it. Check the currently installed system license and upgrade if necessary.

Severity

Warning

Message Text

Register message received from `%ipa1%`, destined to `%ipa2%` for Group `%ipa3%` and Src `%ipa4%` is dropped due to `%dropReason%`.

Message Parameters

Name	Type
ipa1	IPaddrN
ipa2	IPaddrN
ipa3	IPaddrN
ipa4	IPaddrN
dropReason	String

pim.msg.SkipTxJoinPrune

Description

This event occurs when join/prune message is not sent to upstream neighbor because the PIM neighborship is not established.

Remedy

No action required - Informational message only

Severity

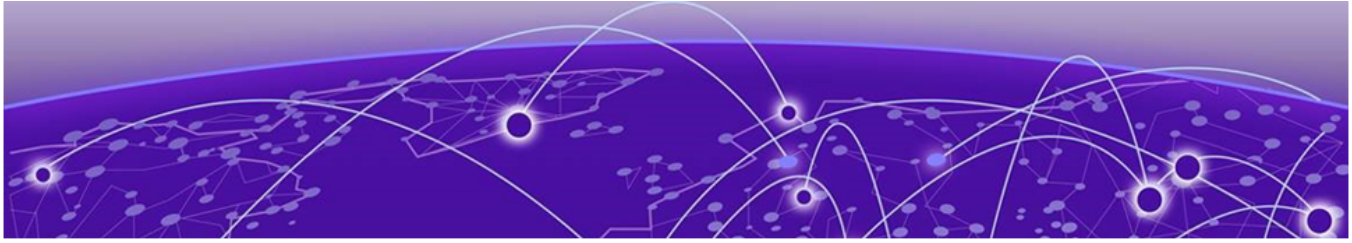
Debug-Data

Message Text

Join/Prune message for source `%ip0%`, group `%ip1%` is not sent over VLAN `%vlan0%` for OIF `%ip3%` because PIM upstream neighbor (address: `%ip2%`) is not available.

Message Parameters

Name	Type
vlan0	VLAN
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN
ip3	IPaddrN



pim.mtrace Messages

pim.mtrace.RecvReq on page 4225
pim.mtrace.SendRspns on page 4226

pim.mtrace.RecvReq

Description

This log message is displayed when PIM receives mtrace query/request message from multicast manager to retrieve information.

Remedy

Informational message only, for debug purpose

Severity

Debug-Data

Message Text

Received mtrace `%type%` with source address `%srcAddr%` group address `%grpAddr%` destination address `%destAddr%` queryId `%queryId%` from Multicast manager for VR `%vrId%`

Message Parameters

Name	Type
type	String
srcAddr	IP
grpAddr	IP
destAddr	IP
queryId	uInt32
vrId	uInt32

pim.mtrace.SendRspns

Description

This log message is displayed when PIM sends response to multicast manager for the mtrace trace request.

Remedy

Informational message only, for debug purpose

Severity

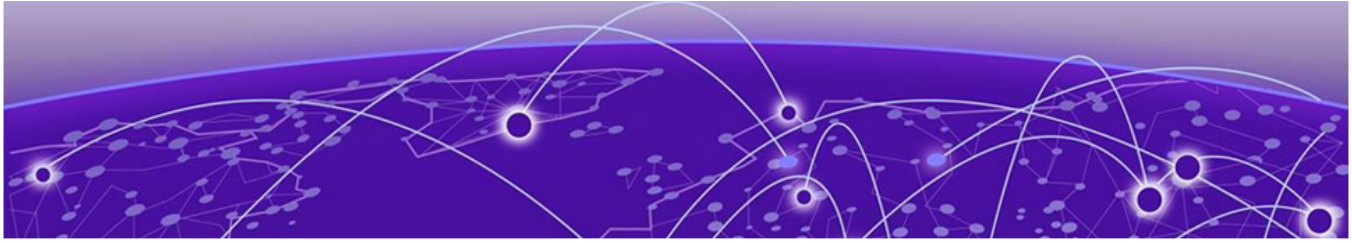
Debug-Data

Message Text

Sending Response to multicast manager for `%srcAddr%` `%grpAddr%` `%queryId%` with previous hop address `%prevHopAddr%` incoming interface address `%iifAddr%` srcMask `%srcMask%` forwarding code `%fwdCode%` on VR `%vrId%`

Message Parameters

Name	Type
srcAddr	IP
grpAddr	IP
queryId	uInt32
prevHopAddr	IP
iifAddr	IP
srcMask	uInt8
fwdCode	uInt8
vrId	uInt32



pim.nbr Messages

pim.nbr.AddNbrNode on page 4227
pim.nbr.DelNbrNode on page 4227

pim.nbr.AddNbrNode

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

New neighbor node, with ip-address `%ip0%`, is being created on vlan, `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
nm	VLAN

pim.nbr.DelNbrNode

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

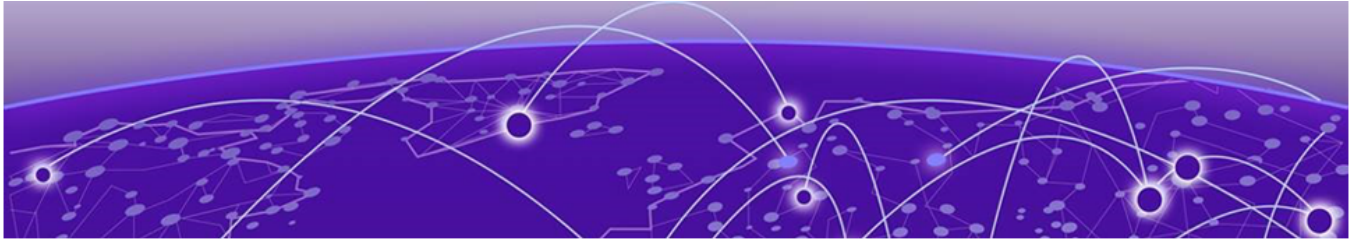
Debug-Data

Message Text

Neighbor node corresponding to ip-address, `%ip0%`, is being deleted from vlan, `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
nm	VLAN



pim.overlay Messages

pim.overlay.RecvCreatCache on page 4229
pim.overlay.CreatCacheOK on page 4230
pim.overlay.CreatCacheFail on page 4230
pim.overlay.RecvDelCache on page 4231
pim.overlay.DelCacheOK on page 4232
pim.overlay.DelCacheFail on page 4232
pim.overlay.RecvCacheMiss on page 4233
pim.overlay.IgnNbrJoinPrune on page 4234

pim.overlay.RecvCreatCache

Description

Recevied call back message from overlay tunnel manager to create cache on First-Hop-Router and Last-Hop-Router for the multicast overlay tunnels.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.overlay.CreatCacheOK

Description

Successfully created overlay multicast tunnel cache on First-Hop-Router and Last-Hop-Router.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.overlay.CreatCacheFail

Description

Failed to create overlay multicast tunnel cache on First-Hop-Router and Last-Hop-Router for the given reason.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.overlay.RecvDelCache

Description

Recevied call back message from overlay tunnel manager to delete cache on First-Hop-Router and Last-Hop-Router for the multicast overlay tunnels.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator

pim.overlay.DelCacheOK

Description

Successfully deleted overlay multicast tunnel cache on First-Hop-Router and Last-Hop-Router.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.overlay.DelCacheFail

Description

Failed to delete overlay multicast tunnel cache on First-Hop-Router and Last-Hop-Router for the given reason.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.overlay.RecvCacheMiss

Description

The cache message for (S,G) recevied for overlay cache from the specificed ingress VLAN.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

pim.overlay.IgnNbrJoinPrune

Description

Indicates that periodic join is not being sent on 'vlan' for the specified overlay multicast cache. This is due to the fact that the peer's cahe entry has better metric to the source so peer is forwarding traffic to the tenant vlan egress. This log will appear when this cache is exluded in the periodical Join-Prune message to upstream neighbor.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

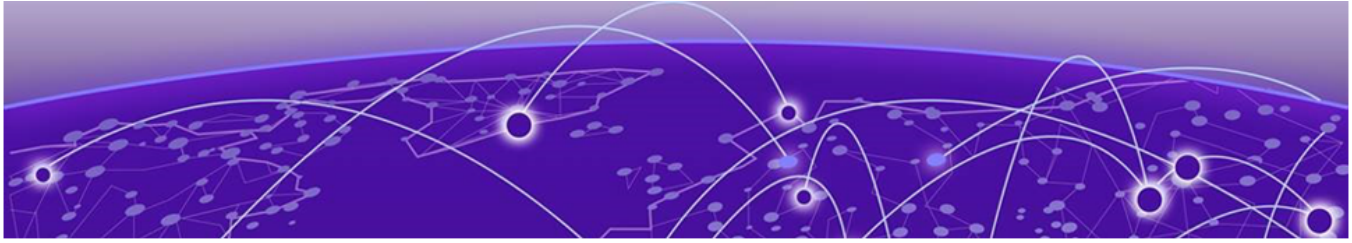
Skipping periodic join for S `%src%`, G `%grp%` on VLAN `%vlan%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
vlan	VLAN

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



pim.rpm Messages

pim.rpm.ModBsrState on page 4236
pim.rpm.ChgCbsrParm on page 4237
pim.rpm.ChgCbsrParmDone on page 4237
pim.rpm.ProcBSRMsg on page 4238
pim.rpm.ChgBSRParm on page 4239
pim.rpm.ProcCRPMsgFail on page 4239
pim.rpm.UpdtCRPData on page 4240
pim.rpm.ClrCRPData on page 4240
pim.rpm.BldBSRMsg on page 4241
pim.rpm.BldBSRMsgNull on page 4241
pim.rpm.SkipRpBSRMsg on page 4242
pim.rpm.AddRpBSRMsg on page 4243
pim.rpm.BldBsrMsgDone on page 4243
pim.rpm.ProcGrpBsrMsg on page 4244
pim.rpm.ChgCRPPrio on page 4244
pim.rpm.ReadGrpBsrMsg on page 4245
pim.rpm.ReadCrpBsrMsg on page 4245
pim.rpm.DelGrpCrpData on page 4246
pim.rpm.RxBsrPkt on page 4246
pim.rpm.LkupBSRRtNull on page 4247
pim.rpm.GetBSRTagData on page 4248
pim.rpm.TmoutCrpTime on page 4248
pim.rpm.TxOldBSRPkt on page 4249
pim.rpm.TxNewBSRPkt on page 4249
pim.rpm.TxOldBSRPktToSw on page 4250
pim.rpm.TxNewBSRPktToSw on page 4250
pim.rpm.GetRpEnt on page 4251
pim.rpm.DelRpEnt on page 4251
pim.rpm.AgeRPData on page 4252
pim.rpm.GetPolParmFail on page 4252
pim.rpm.RegPolMgrFail on page 4253
pim.rpm.RecvUnkPolMsg on page 4253
pim.rpm.AddGrNoRpBSRMsg on page 4254
pim.rpm.CreateRpEnt on page 4255

pim.rpm.ReadTmpCrpBsrMsg on page 4255
pim.rpm.RemGrpRpCntZero on page 4256
pim.rpm.RemGrpHoldTimerExpiry on page 4256
pim.rpm.BsrMsgSent on page 4257
pim.rpm.tmpGrpToRpMapToWork on page 4257
pim.rpm.GetBestRpSkipRpDel on page 4258
pim.rpm.GetBestRpSkipLinkDel on page 4258
pim.rpm.GetRpSetSkipGroup on page 4259
pim.rpm.ErrRpCntNeg on page 4260
pim.rpm.BldBSRMsgRPCntExceed on page 4260
pim.rpm.LkupBSRRouteFail on page 4261
pim.rpm.DropCrpAdvAtBorder on page 4261

pim.rpm.ModBsrState

Description

If no BSR message is received for BSR timeout period, the BSR state machine is executed and the BSR changes state. The message is dispalyed for such state transition.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Modifying state, `%name0%` for current BSR, `%ip0%`(`%num0%`), on expiry of the timer.

Message Parameters

Name	Type
name0	String
ip0	IPaddrN
num0	sInt

pim.rpm.ChgCbsrParm

Description

The candidate BSR is being changed. Either the bsr address or the priority is different. %ip1% is new bsr address, %num2% is the new priority and %st% is the current state.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Candidate BSR is being changed. Old config, `%ip0%`/`%num%`, `%ip1%`/`%num2%`. Bsr state is `%st%`.

Message Parameters

Name	Type
ip0	IPaddrN
num	sInt
ip1	IPaddrN
num2	sInt
st	String

pim.rpm.ChgCbsrParmDone

Description

Displays the changed BSR info, where %ip0% is new bsr address, %num0% is the new priority and %name0% is the new BSR state.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Candidate BSR changed to, %ip0%(%num0%), state %name0%\n

Message Parameters

Name	Type
ip0	IPaddrN
num0	sInt
name0	String

pim.rpm.ProcBSRMsg

Description

Processing the CBSR message. Displays the current BSR state on the switch and the BSR information in the message being processed.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Candidate BSR message received. Current BSR %ip0%(%num0%) state %name0%. Given BSR %ip1%(%num1%)

Message Parameters

Name	Type
ip0	IPaddrN
num0	sInt
name0	String
ip1	IPaddrN
num1	sInt

pim.rpm.ChgBSRParm

Description

The BSR packet received caused change in the elected BSR info.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

New BSR, `%ip0%`(`%num0%`), is elected over the existing one. Current BSR state `%name0%`.

Message Parameters

Name	Type
ip0	IPaddrN
num0	sInt
name0	String

pim.rpm.ProcCRPMsgFail

Description

The policy configuration is such that the CRP is not to be accepted from the given source, the CRP advertisement received will not be processed.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

CRP message from `%ip0%` is rejected as its not in trusted CRP list.

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.UpdtCRPData

Description

Updating the CRP information locally, instead of unicasting outside to the BSR.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Loopback CRP information, as the elected BSR is on the same switch. CRP address, `%ip0%`, packet length, `%num0%`.

Message Parameters

Name	Type
ip0	IPaddrN
num0	sInt

pim.rpm.ClrCRPData

Description

When the CRP is unconfigured, or the interface is going down, it unicasts a CRP advertisement with 0 holdtime, so that the next BSR advertisemtn will not contain this CRP. This is to speed up the BSR convergence time, otherwise the CRP entry on the BSR will have to timeout, before the BSE would know that the CRP is no longer up.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Loopback poisoned CRP information on local elected BSR. CRP address, `%ip0%`, packet length, `%num0%`.

Message Parameters

Name	Type
ip0	IPaddrN
num0	sInt

pim.rpm.BldBSRMsg

Description

Constructing BSR packet segment for the given group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Building BSR advertisemnt packet for CRPs corresponding to group `%ipd%`.

Message Parameters

Name	Type
ipd	IPaddrN

pim.rpm.BldBSRMsgNull

Description

The given CRP is not added in the BSR advertisement as the CRP has been poison reversed.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Skipping CRP, `%ip0%`, while constructing BSR packet.

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.SkipRpBSRMsg

Description

If the CRP advertisement doesn't contain the group, the group would fall to the next CRP as elected RP, so the advertisement will not include the group-rp combination.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Skipping CRP, `%ip0%`, for group, `%ipd%`, while constructing BSR packet as the last advertisement from the CRP didn't include this group.

Message Parameters

Name	Type
ip0	IPaddrN
ipd	IPaddrN

pim.rpm.AddRpBSRMsg

Description

The CRP-group combination is being added in BSR advertisement.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Adding crp, `%ip0%`, for group, `%ipd%`, while constructing BSR packet.

Message Parameters

Name	Type
ip0	IPaddrN
ipd	IPaddrN

pim.rpm.BldBsrMsgDone

Description

The BSR packet has been constructed and is ready to be transmitted to the neighbors.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Built the BSR packet. The last group added is `%ipd%`.

Message Parameters

Name	Type
ipd	IPaddrN

pim.rpm.ProcGrpBsrMsg

Description

The BSR packet is being processed for the group mask.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Processing segment of BSR packet received, for group `%ipd%`.

Message Parameters

Name	Type
ipd	IPaddrN

pim.rpm.ChgCRPPrio

Description

While processing the CRP advertisement the priority for CRP was found to have changed than the previous advertisement. So, this change would be saved.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

CRP priority changed for, `%crp%`, from `%num0%` to `%num1%`.

Message Parameters

Name	Type
crp	IPaddrN
num0	sInt
num1	sInt

pim.rpm.ReadGrpBsrMsg

Description

The BSR packet received has CRP information for the given group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Read group, `%ip0%`, in the BSR packet being processed.

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.ReadCrpBsrMsg

Description

The packet contains the given crp for the group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Read CRP, `%ip0%`, for group, `%ipd%`, while processing BSR packet.

Message Parameters

Name	Type
ip0	IPaddrN
ipd	IPaddrN

pim.rpm.DelGrpCrpData

Description

The BSR didn't advertise the given CRP in this group, so remove it from the list of CRPs for the group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Delete `%ip0%` as one of the CRPs for the group, `%ipd%`.

Message Parameters

Name	Type
ip0	IPaddrN
ipd	IPaddrN

pim.rpm.RxBsrPkt

Description

Received the BSR packet on the given vlan.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received BSR packet from `%ip0%` of length `%num0%`, on vlan `%nm%`.

Message Parameters

Name	Type
ip0	IPaddrN
num0	sInt
nm	VLAN

pim.rpm.LkupBSRRtNull

Description

Expected interface to receive the BSR packet is different than the interface it was received on, or there is no route to the BSR from this switch. The BSR packet will not be processed.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Bsr packet received from `%ip0%`, failed the RPF test.

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.GetBSRTagData

Description

The fragmented BSR packet is not supported, the tag shows whether any such packet was received.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Fragment tag on the BSR packet received, `%num0%`.

Message Parameters

Name	Type
num0	sInt

pim.rpm.TmoutCrpTime

Description

CRP advertisement would be sent to BSR as CRP advertisement timer has expired.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

CRP advertisement timer expired.

pim.rpm.TxOldBSRPkt

Description

On detecting new neighbor, the last BSR received on the switch is forwarded to that, facilitating faster RP convergence.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Transmitting the cached BSR advertisement to the new neighbor, `%ip0%`.

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.TxNewBSRPkt

Description

On detecting new neighbor, BSR message would be sent to that as this switch has the current elected BSR interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Transmitting BSR advertisement to the new neighbor, `%ip0%`.

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.TxOldBSRPktToSw

Description

As new or changed geneyation ID is seen in the hello message, its assumed that a new switch has come up or the old switch has restarted. In such situation BSR advertisement is sent.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Transmitting BSR advertisement on detecting a new switch on vlan `%nm%`.

Message Parameters

Name	Type
nm	VLAN

pim.rpm.TxNewBSRPktToSw

Description

As new or changed geneyation ID is seen in the hello message, its assumed that a new switch has come up or the old switch has restarted. In such situation BSR advertisement is sent.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Transmitting BSR advertisement to the new switch detected in vlan, `%nm%`.

Message Parameters

Name	Type
nm	VLAN

pim.rpm.GetRpEnt

Description

Trying the get a RP entry object to link it to the group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Find or create rp entry for, `%ip0%`\n

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.DelRpEnt

Description

Deleting RP entry.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Deleting RP entry, `%ip0%`, with origin (`%name0%`).

Message Parameters

Name	Type
ip0	IPaddrN
name0	String

pim.rpm.AgeRPData

Description

If the CRP gies away, the BSR needs to know. This is done through poisoned CRP message and through aging. If the BSR didn't get the poisoned message, it will eventually age out the CRP entry learnt earlier.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

RP learnt through CRP is being aged.

pim.rpm.GetPolParmFail

Description

Policy attached on vlan is not returning any result for unknown reasons This will affect the RP propagaion in PIM or .

Remedy

Check if polmgr process is running OK, otherwise this is an internal error. Please contact tech support.

Severity

Error

Message Text

Policy evaluation failed with policy attached on vlan `%nm%`.

Message Parameters

Name	Type
nm	VLAN

pim.rpm.RegPolMgrFail

Description

Could not register with policy manager, or the connection to pol mgr failed.

Remedy

Check if polmgr process is running OK, otherwise this is an internal error. Please contact tech support.

Severity

Error

Message Text

Policy manager registeration failed with code `%nm%`.

Message Parameters

Name	Type
nm	sInt

pim.rpm.RecvUnkPolMsg

Description

Could not handle policy manager refresh message status.

Remedy

Check if polmgr process is running OK, otherwise this could be ignored.

Severity

Notice

Message Text

Cannot handle policy manager refresh msg type `%nm%`.

Message Parameters

Name	Type
nm	sInt

pim.rpm.AddGrNoRpBSRMsg

Description

The CRP-group combination is being added in BSR advertisement.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Adding group: `%ipd%` with zero RP Count, while constructing BSR packet.

Message Parameters

Name	Type
ipd	IPaddrN

pim.rpm.CreateRpEnt

Description

Create an RP entry object to link it to the group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Find or create rp entry for, `%ip0%`\n

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.ReadTmpCrpBsrMsg

Description

The packet contains the given crp for the group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Read CRP, `%ip0%`, for group, `%ipd%`, and add it to the temp group list while processing BSR packet.

Message Parameters

Name	Type
ip0	IPaddrN
ipd	IPaddrN

pim.rpm.RemGrpRpCntZero

Description

Received a BSR fragment with RP count zero for this group. So delete the group entry.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Remove group `%ip0%` as RP count is zero

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.RemGrpHoldTimerExpiry

Description

Received no BSR advertisements for this group for the interval BSR timeout. So the group entry is being deleted.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Group `%ip0%` is being removed as it is aged out

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.BsrMsgSent

Description

BSR advertisements are sent out.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Sent BSR advertisements.

pim.rpm.tmpGrpToRpMapToWork

Description

Received the complete RP information for this group from multiple BSR fragments. Copy the temp RP mapping to the working group RP mapping.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Copy Group to RP mapping for `%ip0%` from temp list to the working list

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.GetBestRpSkipRpDel

Description

The RP is being aged out and hence need to be skipped from the list of feasible RPs for the specified group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

CRP `%ip0%` is skipped during computation of the best RP for group `%ipd%` as RP is being deleted.

Message Parameters

Name	Type
ip0	IPaddrN
ipd	IPaddrN

pim.rpm.GetBestRpSkipLinkDel

Description

This specific Group to RP mapping is being aged out and hence need to be skipped from the list of feasible RPs for the specified group.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

CRP `%ip0%` is skipped during computation of the best RP for group `%ipd%` as the Grp to RP Mapping is being deleted for this specific RP-Grp.

Message Parameters

Name	Type
ip0	IPaddrN
ipd	IPaddrN

pim.rpm.GetRpSetSkipGroup

Description

The specified group mask combination is skipped as RP count is zero.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Skip group `%ipd%` mask `%mask%` as RP count is zero.

Message Parameters

Name	Type
ipd	IPaddrN
mask	sInt

pim.rpm.ErrRpCntNeg

Description

RP Count for this group is already zero and is being decremented again which will result in a wrong value.

Remedy

This error check is more of a consistency check and should not ideally happen. If you see this message, try disabling pim and re-enabling it to resolve the problem.

Severity

Critical

Message Text

Function `%function%`: RP Count for Group `%group%` is ZERO and is being deremented.

Message Parameters

Name	Type
function	String
group	IPaddrN

pim.rpm.BldBSRMsgRPCntExceed

Description

Currently the max supported limit for number of RPs for a single group EXOS is 145 for IPV4 and 64 for IPV6. Hence if any group has RP count greater than allowed limit, it will not be included in the BSR message being advertised.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Group `%ipd%` wth RP count `%rpcount%` exceeds the max supported limit of `%maxlimit%` and will be skipped in the BSR message being advertised.

Message Parameters

Name	Type
ipd	IPaddrN
rpcount	sInt
maxlimit	sInt

pim.rpm.LkupBSRRouteFail

Description

Route to BSR is not available, so cannot send CRP Advertisement.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Cannot send CRP Adv because route to BSR `%ip0%` not available

Message Parameters

Name	Type
ip0	IPaddrN

pim.rpm.DropCrpAdvAtBorder

Description

CRP Advertisments cannot be sent across an interface configured to be a Border vlan. If the UPIF toward a BSR is such a Border interface, then the CRP advertisment must be dropped here.

Remedy

Informational message only, for debug purpose.

Severity

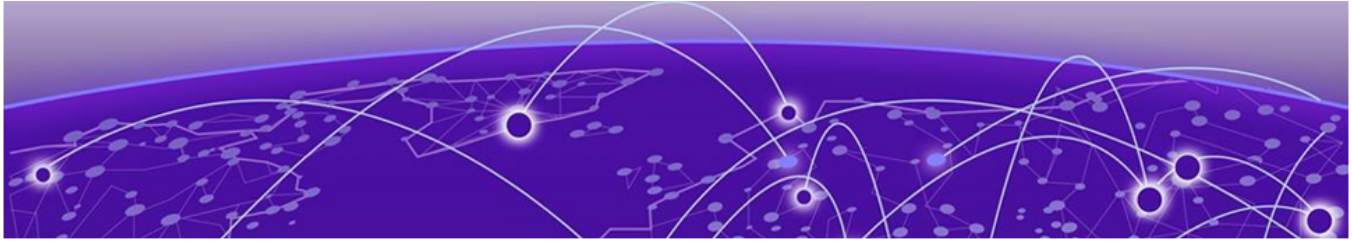
Debug-Summary

Message Text

Cannot send CRP Adv because UPIF toward BSR `%ip0%` is configured to be a Border interface

Message Parameters

Name	Type
ip0	IPaddrN



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pim.StateRfrsh.AddTLV

Description

State Refresh TLV is included in the hello message generated on the interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Including State Refresh option in Hello for vlan `%vname%`, Origination Interval `%num%`

Message Parameters

Name	Type
vname	VLAN
num	uInt

pim.StateRfrsh.RxTLV

Description

Hello message received from neighbor included state refresh TLV information.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

State Refresh option included in hello by neighbor `%ip0%`

Message Parameters

Name	Type
ip0	IPaddrN

pim.StateRfrsh.RxMsgDump

Description

Received State refresh information.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received State Refresh Info Src `%ip0%` Grp `%ip1%`, Originator Addr `%ip2%`, TTL `%ttl%`, Metric `%met%`, Preference `%pref%`, Mask Len `%mask%`, Origination Interval `%orint%`, Flags `%flags%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN
ttl	uInt

Name	Type
met	uInt
pref	uInt
mask	uInt
orint	uInt32
flags	xInt8

pim.StateRfrsh.DropMsgIfPssv

Description

State refresh message received on passive interface is not processed, dropped.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

State Refresh message received on passive interface `%vname%`, Dropped

Message Parameters

Name	Type
vname	VLAN

pim.StateRfrsh.DropMsgLocMcastGrp

Description

State refresh message included a local multicast group, dropped.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

State Refresh received for local multicast group `%ip0%`, dropped

Message Parameters

Name	Type
ip0	IPaddrN

pim.StateRfrsh.DropMsgIfInv

Description

State refresh message is received on non-dense circuit, dropped.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

State Refresh received on non-dense circuit `%vname%`, dropped

Message Parameters

Name	Type
vname	VLAN

pim.StateRfrsh.DropMsgIfDsbl

Description

State refresh message is received on an interface on which state refresh is disabled.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

State Refresh received on state refresh disabled vlan `%vname%`, dropped

Message Parameters

Name	Type
vname	VLAN

pim.StateRfrsh.RxMsgDwnstrmIf

Description

State refresh message is received on a downstream interface for an existing S, G cache entry.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Verbose

Message Text

State Refresh message received on downstream interface `%vname%` for Src `%ip0%` Grp `%ip1%`

Message Parameters

Name	Type
vname	VLAN
ip0	IPaddrN
ip1	IPaddrN

pim.StateRfrsh.RxMsgIfAssrtLoser

Description

State Refresh message is received on a downstream interface on which the local switch is an assert loser. OIF timer associated with the interface is reset.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Resetting timer for OIF `%vname%` to `%num%` secs.

Message Parameters

Name	Type
vname	VLAN
num	uInt

pim.StateRfrsh.DropMsgIfNotUpstrm

Description

State Refresh messages will be subjected to RPF checks similar to data packets. This message indicates that the state refresh message is received on non-upstream interface and hence dropped.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Verbose

Message Text

State Refresh received on non-upstream vlan `%vname%`, dropped

Message Parameters

Name	Type
vname	VLAN

pim.StateRfrsh.DropMsgWrongNbr

Description

State Refresh messages will be subjected to RPF checks similar to data packets. This message indicates that the state refresh message is received from wrong RPF neighbor and hence dropped.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Verbose

Message Text

State Refresh received from wrong neighbor `%ip0%`, dropped

Message Parameters

Name	Type
ip0	IPaddrN

pim.StateRfrsh.RxMsgUpstrmPruneIndSet

Description

State Refresh received with prune indicator bit set. The local S, G cache's upstream is in forwarding state and hence starting a Join Override timer to send a Join upstream.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Verbose

Message Text

Upstream prune indicator set for Src `%ip0%` Grp `%ip1%`, Join override timer started

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.StateRfrsh.RxMsgUpstrmPruneIndClr

Description

State Refresh received with prune indicator bit cleared and the local S, G cache's upstream is in forwarding state. Delete Graft retransmission list entries if any.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Verbose

Message Text

Upstream prune indicator bit not set for Src `%ip0%` Grp `%ip1%`, delete Graft retransmission list

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.StateRfrsh.RxMsgSendPruneUpstrm

Description

State Refresh received with prune indicator bit cleared and local S, G cache's upstream is in prune state. Send a prune upstream.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Verbose

Message Text

Upstream prune indicator bit not set for Src `%ip0%` Grp `%ip1%`, sending Prune upstream

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.StateRfrsh.DropMsgRtNotExist

Description

State Refresh message included S, G information for which route does not exist. Message is dropped.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

State Refresh for Src `%ip0%` Grp `%ip1%` dropped, Route does not exist

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.StateRfrsh.RxMsgSPTIgn

Description

S, G cache entries will be created even when state refresh messages are received. In such a case SPT bit should not be set. This message indicates such a scenario.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

SPT bit not set for Src `%ip0%` Grp `%ip1%`.

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.StateRfrsh.DropMsgTTLZero

Description

State Refresh messages with 0 TTL are not supposed to be forwarded. This message indicates reception of such a mesage which is dropped.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

State Refresh with invalid TTL `%ttl%` for Src `%ip0%` Grp `%ip1%`, dropped.

Message Parameters

Name	Type
ttl	uInt
ip0	IPaddrN
ip1	IPaddrN

pim.StateRfrsh.FwdMsgIfNotCap

Description

This message indicates that a State Refresh message is being forwarded on an interface which is not state refresh capable.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Forwarding State Refresh for Src `%ip0%`, Grp `%ip1%` on vlan `%vname%`, which is not state refresh capable

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN

pim.StateRfrsh.FwdMsg

Description

This message indicates that a state refresh message corresponding to the S, G is being forwarded on the interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Forwarding State Refresh for Src `%ip0%`, Grp `%ip1%` on vlan `%vname%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN

pim.StateRfrsh.SkipDsblIf

Description

This message indicates that State Refresh message is not sent on state refresh disabled interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

State Refresh for Src `%ip0%`, Grp `%ip1%` not forwarded on state refresh disabled vlan `%vname%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN

pim.StateRfrsh.SkipBorderIf

Description

This message indicates that State Refresh message is not sent on border interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

State Refresh for Src `%ip0%`, Grp `%ip1%` not forwarded on border vlan `%vname%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN

pim.StateRfrsh.SkipPssvIf

Description

This message indicates that state refresh message is not sent on passive interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

State Refresh for Src `%ip0%`, Grp `%ip1%` not forwarded on passive interface `%vname%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN

pim.StateRfrsh.SkipAssrtLoserIf

Description

State Refresh message is not forwarded over the interface on which the local switch is an Assert loser.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

State Refresh for Src `%ip0%`, Grp `%ip1%` not forwarded on assert loser interface `%vname%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN

pim.StateRfrsh.NbrSyncTimerExp

Description

S, G cache entries will be sent to new neighbors to sync S, G state. A separate sync timer which is used for this purpose expired.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Neighbor Sync timer expired for circuit `%ip0%`

Message Parameters

Name	Type
ip0	IPaddrN

pim.StateRfrsh.NbrSyncDone

Description

Syncing of S, G cache to neighbor completed.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Completed S, G cache sync for Neighbor `%ip0%`

Message Parameters

Name	Type
ip0	IPaddrN

pim.StateRfrsh.IgnNbrIfNonDense

Description

State Refresh messages will not be forwarded on Sparse circuits. A new neighbor is detected on a sparse circuit which will be ignored and no S, G cache sync will happen to the neighbor.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Verbose

Message Text

Ignore neighbor on non-dense vlan `%vname%`

Message Parameters

Name	Type
vname	VLAN

pim.StateRfrsh.TxMsgIfNotCap

Description

This message indicates that a State Refresh message is being forwarded on an interface which is not state refresh capable.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending state refresh for Src `%ip0%`, Grp `%ip1%` on vlan `%vname%`, which is not state refresh capable

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN

pim.StateRfrsh.SkipCacheInact

Description

Cache sync to neighbor can happen only if state refresh messages are being received periodically for the S, G. Otherwise the S, G cache will be ignored during neighbor sync. This message indicates that state refresh state is inactive for the S, G and hence ignored during neighbor sync.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Refresh state not active for Src `%ip0%` Grp `%ip1%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN

pim.StateRfrsh.NbrSyncMoreCacheRmn

Description

S, G cache sync to neighbor is throttled to avoid overwhelming the neighbor with state refresh messages. Every second 500 S, G cache will be handled. If there are more entries, then the timer is restarted and the remaining entries handled in the next expiry. This message appears during one such cycle.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

`%num%` S,G done. More S,G to be Synced to Neighbor `%ip0%`, Restarting Timer

Message Parameters

Name	Type
num	uInt
ip0	IPaddrN

pim.StateRfrsh.OrigTimerExp

Description

This message indicates Origination timer expiry which will result in state refresh messages being generated for S, G cache for which local switch is the first hop router.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

State Refresh origination timer expired

pim.StateRfrsh.OrigTimerExpNoCache

Description

This message indicates that when origination timer expired there are no cache entries to be handled. The window will be reset to initial value and the timer restarted.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

No S,G Cache entries present, Resetting window

pim.StateRfrsh.TxNbrIfNotCap

Description

This message indicates that a State Refresh message is being forwarded to a neighbor on an interface which is not state refresh capable.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Transmitting State Refresh for Src `%ip0%`, Grp `%ip1%` on vlan `%vname%`, which is not state refresh capable

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN

pim.StateRfrsh.TxMsg

Description

This message indicates that a state refresh message corresponding to the S, G is being transmitted on the interface.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Transmitting State Refresh for Src `%ip0%`, Grp `%ip1%` on vlan `%vname%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
vname	VLAN

pim.StateRfrsh.TxMsgToNbr

Description

This message indicates that a state refresh message is being sent to neighbor for the S, G on the interface during neighbor sync.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Sending State Refresh for Src `%ip0%`, Grp `%ip1%` to neighbor `%ip2%` on vlan `%vname%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN
vname	VLAN

pim.StateRfrsh.MaxCacheEntRateRch

Description

A maximum of 500 cache entries are processed per second during origination and neighbor sync timer expiry. This log message indicates that the maximum has reached for the current window.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Max Cache entries `%num%` sent, Window `%win%`

Message Parameters

Name	Type
num	uInt
win	uInt

pim.StateRfrsh.TxMsgDump

Description

Transmitted State refresh information.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Transmitted State Refresh Info Src `%ip0%` Grp `%ip1%`, Originator Addr `%ip2%`, TTL `%ttl%`, Metric `%met%`, Preference `%pref%`, Mask Len `%mask%`, Origination Interval `%orint%`, Flags `%flags%`

Message Parameters

Name	Type
ip0	IPaddrN
ip1	IPaddrN
ip2	IPaddrN
ttl	uInt
met	uInt
pref	uInt
mask	uInt
orint	uInt32
flags	xInt8

pim.StateRfrsh.DropMsgIfBorder

Description

State refresh message received on border interface is not processed, dropped.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

State Refresh message received on border interface `%vname%`, Dropped

Message Parameters

Name	Type
vname	VLAN

pim.StateRfrsh.SkipCacheTTLZero

Description

The S,G entry is skipped during neighbor sync since the TTL is zero. State Refresh messgages with zero TTL value are not forwarded and hence will not be updated to new neighbors during neighbor sync.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Skipping cache with invalid TTL `%ttl%` for Src `%ip0%` Grp `%ip1%`

Message Parameters

Name	Type
ttl	uInt
ip0	IPaddrN
ip1	IPaddrN

pim.StateRfrsh.DropMsgInvSrc

Description

State Refresh message received with invalid source is dropped

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

State Refresh message with invalid source `%ip0%`, dropped

Message Parameters

Name	Type
ip0	IPaddrN

pim.StateRfrsh.DropMsgInvGrp

Description

State Refresh message received with invalid group is dropped

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

State Refresh message with invalid group `%ip0%`. dropped

Message Parameters

Name	Type
ip0	IPaddrN

pim.StateRfrsh.DropMsgInvAddr

Description

State Refresh message received with invalid originator address is dropped

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

State Refresh message with originator address `%ip0%`, dropped

Message Parameters

Name	Type
ip0	IPaddrN

pim.StateRfrsh.DropMsgInvTTL

Description

State Refresh messgae received with Zero TTL is dropped

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

State Refresh with invalid TTL `%ttl%` dropped.

Message Parameters

Name	Type
ttl	uInt

pim.StateRfrsh.DropMsgInvIntvl

Description

State refresh message received with zero origination interval is dropped

Remedy

Informational message only, for debug purpose.

Severity

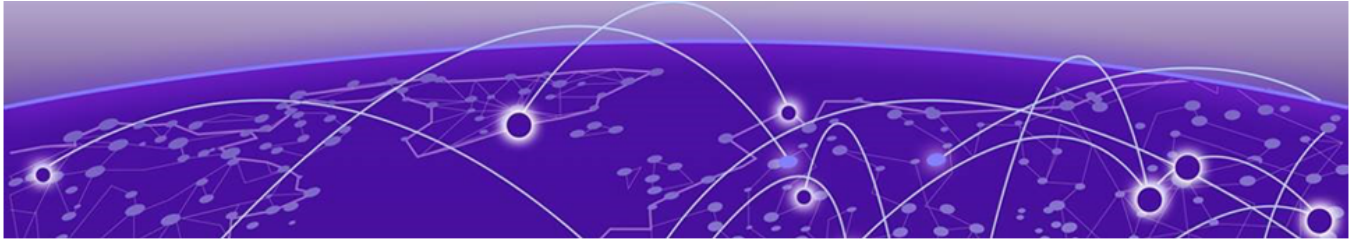
Debug-Data

Message Text

State Refresh message with Origination Interval `%interval%` dropped

Message Parameters

Name	Type
interval	uInt



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pim.vsm.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

pim.vsm.AllocNewCkptNode

Description

Indicates that memory is being allocated for storing checkpoint information received from MLAG peer relating to the specified source and group.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Allocate checkpoint node for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.UnkIPNetAddr

Description

This event occurs when an MLAG node receives a checkpoint message from the peer with ingress VLAN IP address information that does not match any of the MLAG VLANs configured on the local node.

Remedy

Ensure that MLAG VLANs are configured with correct IP addresses and mask length on MLAG peer nodes. If the IP addresses do not match for MLAG VLANs then PIM may not function as expected. Contact technical support with output from following commands: 1. show pim 2. show vlan 3. show pim cache detail

Severity

Info

Message Text

Unknown IP address `%ip%`/`%mlen%` in checkpoint message for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
ip	IPaddrN
mlen	uInt

pim.vsm.CirctNotFnd

Description

Thisevent occurs when a PIM circuit corresponding to the given VLAN is not found during processing of checkpoint messages.

Remedy

Ensure that PIM is enabled on all VLANs consistently on MLAG peer nodes.

Severity

Info

Message Text

PIM circuit not found for VLAN `%vlan%`, S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
vlan	String

pim.vsm.CreatCacheFail

Description

This event occurs when an attempt to create a cache for the specified source and group fails. This may happen if route to source is not available or if RP is not available (in case of PIM-SM) which is normal. Once route to source or RP is available the cache entry gets created.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Create cache failed for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.ProcAddCacheCkptMsg

Description

Indicates that an Add Cache checkpoint message is being processed for the specified source and group.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Process Add Cache checkpoint message for S `%src%`, G `%grp%` from peer

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.AddCacheEgr

Description

This event occurs when an egress interface is being added to a multicast cache entry during checkpoint message processing.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Adding Egress Interface `%vlan%` to S `%src%`, G `%grp%` cache entry

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
vlan	VLAN

pim.vsm.DelCacheEgr

Description

This event occurs when an egress interface is being deleted from a multicast cache entry during checkpoint message processing.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Deleting Egress Interface `%vlan%` from S `%src%`, G `%grp%` cache entry

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
vlan	VLAN

pim.vsm.UpdtCkptDBEnt

Description

Indicates that existing checkpoint database information pertaining to the specified source and group is being updated.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Update checkpoint database information for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.AddCkptDBEnt

Description

Indicates that a new checkpoint database entry is being created for the specified source and group.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Add checkpoint database entry for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.ProcDelCacheCkptMsg

Description

This event occurs when a Delete Cache checkpoint message is received from MLAG peer for the specified source and group.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Process Delete Cache checkpoint message for S `%src%`, G `%grp%` from peer

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.CkptEntNotFnd

Description

Indicates that checkpoint database entry corresponding to the specified source and group is not found. This may happen due to lost checkpoint messages between MLAG peers.

Remedy

Checkpoint messages may be lost due to considerable CPU bound traffic. Check if this is the case and rectify the same if it is due to configuration issues.

Severity

Info

Message Text

Checkpoint database entry for `%src%`, G `%grp%` not found

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.DelCkptDBEnt

Description

Indicates that checkpoint database entry corresponding to the specified source and group is being deleted.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Delete checkpoint database entry for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.ProcAddOIFCkptMsg

Description

Indicates that an Add OIF checkpoint message is being processed for the specified source and group.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Process Add OIF checkpoint message for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.ProcDelOIFCkptMsg

Description

Indicates that a Delete OIF checkpoint message is being processed for the specified source and group.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Process Delete OIF checkpoint message for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.ProcIngVLANQuery

Description

Indicates that an Ingress VLAN Request/Response checkpoint message is being processed for the specified source and group.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Processing `%cmd%` for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
cmd	String

pim.vsm.ResetRtxTimer

Description

Indicates that re-transmit timer, started to ensure ingress VLAN query commands are delivered to the MLAG peer without fail, is being reset since a response is received.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Resetting Ingress VLAN Query Re-transmit timer for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.UpdIngVLAN

Description

This event occurs when local switch receives an ingress VLAN query command from the peer. 'asrt' indicates whether MLAG egresses can move to assert-winner/assert-loser state. When 'asrt' is FALSE all MLAG egresses of the multicast cache identified by 'src' and 'grp' will be moved to forwarding state and ISC port corresponding to the specified ISC 'isc' will be deleted from the MLAG egresses of the multicast cache.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Ingress VLAN update for S `%src%`, G `%grp%`, canAssert `%asrt%`, ISC `%isc%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
asrt	uInt
isc	uInt16

pim.vsm.AddISCPort

Description

Indicates that ISC port corresponding to ISC 'isc' is being added to the egress VLAN 'vlan' correspoinding to the multicast cache identified by the specified source 'src' and group 'grp'.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Adding ISC `%isc%` to VLAN `%vlan%` for multicast cache S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
vlan	VLAN
isc	uInt16

pim.vsm.DelISCPort

Description

Indicates that ISC port corresponding to ISC 'isc' is being deleted from the egress VLAN 'vlan' correspoinding to the multicast cache identified by the specified source 'src' and group 'grp'.

Remedy

No action required - Informational message onl

Severity

Debug-Verbose

Message Text

Deleting ISC `%isc%` from VLAN `%vlan%` for multicast cache S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
vlan	VLAN
isc	uInt16

pim.vsm.CkptFlagErr

Description

Indicates that WC and RPT bit combination in the received checkpoint message is erroneous. As per PIM RFC if WC bit is set then RPT bit must be set. If this is not the case then the above message is logged.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with output from following commands: 1. show pim cache detail 2. show pim

Severity

Error

Message Text

Erroneous bit combination in checkpoint message flags `%flags%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
flags	uInt32

pim.vsm.VrfyCkptDB

Description

When a checkpoint message is received from the peer, cache creation could have failed due to either route or RP not being available. When either a route or RP has become available, local switch tries to create multicast cache entries from the information in the checkpoint database. The event indicates that such a process has started. The reason

code 'rc' indicates whether the verification is happening due to RP or route becoming available.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Checkpoint database verification started, Reason `%rc%`

Message Parameters

Name	Type
rc	uInt

pim.vsm.CreatCacheRtAvail

Description

Indicates that a multicast cache is being created due to a route becoming available.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Creating multicast cache for S `%src%`, G `%grp%`, Reason \"Route Reachable\"

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.CreatCacheRPAvail

Description

Indicates that a multicast cache is being created due to RP becoming available/ reachable.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Creating multicast cache for S `%src%`, G `%grp%`, Reason \"RP Reachable/Available\"

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.CreatISC

Description

Indicates that an ISC specified by index 'isc' is being created.

Remedy

No action required - Informational message only

Severity

Debug-Verbose

Message Text

Create ISC for index `%isc%`

Message Parameters

Name	Type
isc	uInt16

pim.vsm.DelISC

Description

Indicates that ISC specified by index "isc' is being deleted.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Deleting ISC for index `%isc%`

Message Parameters

Name	Type
isc	uInt16

pim.vsm.DelCkptTxTimer

Description

This is a debug message indicating that the timer used for transmitting checkpoint messages is deleted. This event will occur when the last ISC is being deleted.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Checkpoint Tx timer deleted

pim.vsm.UpdtISC

Description

This event indicates that an update of ISC-related parameters is being attempted. The parameters that can be modified are ISC state, ISC port instance and IP address.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Update ISC for ISC `%isc%`, change mask `%mask%`

Message Parameters

Name	Type
isc	uInt16
mask	xInt32

pim.vsm.StateChgNtfy

Description

This event indicates that the state of an ISC has changed.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

State change notification for ISC `%isc%`, state = `%state%`

Message Parameters

Name	Type
isc	uInt16
state	sInt

pim.vsm.ISCUp

Description

This event indicates that the state of an ISC has changed to UP.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

State changed to UP for ISC `%isc%`

Message Parameters

Name	Type
isc	uInt16

pim.vsm.ISCDown

Description

This event indicates that the state of an ISC has changed to DOWN.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

ISC `%isc%` is DOWN, re-initialize application-specific data

Message Parameters

Name	Type
isc	uInt16

pim.vsm.CreatMLAG

Description

This event indicates that an MLAG has been created.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Created MLAG for index `%mlag%`

Message Parameters

Name	Type
mlag	uInt16

pim.vsm.DelMLAG

Description

This event indicates that the specified MLAG is deleted.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Deleted Mlag for index `%mlag%`

Message Parameters

Name	Type
mlag	uInt16

pim.vsm.MLAGStateChgNtfy

Description

This event indicates that parameters relating to an MLAG have changed.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

MLAG state change notification for index `%mlag%`, ISC `%isc%`, remote port state `%state%`

Message Parameters

Name	Type
mlag	uInt16
isc	uInt16
state	sInt

pim.vsm.RmtMLAGPortDown

Description

This event indicates that the port state corresponding to the specified MLAG has changed to DOWN on the remote switch.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Remote MLAG port down for MLAG `%mlag%`, VLAN `%vlan%`

Message Parameters

Name	Type
mlag	uInt16
vlan	String

pim.vsm.CreatCkptTxTimer

Description

This event indicates that a timer which is used for transmitting checkpoint messages is created. This event will occur when the first ISC is being created.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Checkpoint Tx timer created

pim.vsm.AddMLAGPortToVLAN

Description

Indicates that the specified MLAG port is being added to the VLAN 'vlan'

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Adding MLAG port `%slot%:%port%` to VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
slot	uInt
port	uInt

pim.vsm.VLANMLAGPortCnt

Description

Specifies the number of MLAG ports included in the given VLAN.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Number of MLAG ports `%count%` in VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
count	uInt

pim.vsm.DelMLAGPortFmVLAN

Description

Indicates that the specified MLAG port is being deleted from the VLAN 'vlan'

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Deleting MLAG port `%slot%:%port%` from VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
slot	uInt
port	uInt

pim.vsm.IgnCkptMsgUnkOwner

Description

Indicates that the received checkpoint message is being ignored since it has unknown owner object.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Ignoring checkpoint message, unknown owner `%owner%`

Message Parameters

Name	Type
owner	uInt

pim.vsm.RxInfoDump

Description

A debug log to dump information from the checkpoint message.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Received checkpoint message, type `%type%`, recLen `%len%`, totalLen `%tlen%`

Message Parameters

Name	Type
type	String
len	uInt
tlen	uInt

pim.vsm.MsgTypeInv

Description

Indicates that a checkpoint message with invalid type is being ignored.

Remedy

No action required - Informational message only.

Severity

Error

Message Text

Ignoring checkpoint message with invalid type `%type%`

Message Parameters

Name	Type
type	uInt

pim.vsm.AddTLVHdrToCkptBuf

Description

Event indicating that a TLV header is being added to checkpoint buffer.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Adding TLV header to checkpoint buffer, type `%type%`, Len `%len%`, writeOffset `%offset%`

Message Parameters

Name	Type
type	uInt
len	uInt
offset	uInt

pim.vsm.AddSGInfoToCkptBuf

Description

Indicates that source-group information is being added to checkpoint buffer.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Adding SG information to checkpoint buffer, S `%src%`, G `%grp%`, Ingress IP `%ing%`, Mask Len `%mlen%`, Flags `%flags%`, Num Egresses `%egrs%`, writeOffset `%offset%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
ing	IP
mlen	uInt
flags	uInt
egrs	uInt
offset	uInt

pim.vsm.AddEgrInfoToCkptBuf

Description

Indicates that MLAG egress information is being added to checkpoint buffer.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Adding Egress Information to checkpoint buffer, IP `%ip%`, Mask Len `%mlen%`, WriteOffset `%offset%`

Message Parameters

Name	Type
ip	IPaddrN
mlen	uInt
offset	uInt

pim.vsm.CkptAddCache

Description

Indicates that an ADD CACHE command is being checkpointed for the specified source and group to MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Checkpointing ADD CACHE command to MLAG peer for S `%src%`. G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.ISCNotUp

Description

Indicates that the specified ISC is being ignored while checkpointing SG cache information. There may be many ISCs and some of the ISCs may be down. Checkpoint messages will not be transmitted over such ISCs.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Ignoring checkpoint for ISC `%isc%`, ISC not UP

Message Parameters

Name	Type
isc	uInt16

pim.vsm.ISCDlayTimerActv

Description

ISC delay timer is started to defer handling ISC UP events in PIM. This is to ensure that a link flap will not result in various actions being performed by the PIM module unnecessarily. This event indicates that a chekpoint message is not being sent on the specified ISC since active timer is still running.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

ISC delay timer active for ISC `%isc%`, ignoring checkpoint message

Message Parameters

Name	Type
isc	uInt16

pim.vsm.CkptDelCache

Description

Indicates that an DELETE CACHE command is being checkpointed for the specified source and group to MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Checkpointing Delete Cache command to MLAG peer for S `%src%`. G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.CkptEgrInfo

Description

Indicates that egress VLAN information, which is added/deleted to/from the egress list of a multicast cache identified by 'src' and 'grp', is beign checkpointed to MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Checkpointing `%cmd%` command for S `%src%`, G `%grp%`, Egress `%vlan%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
vlan	VLAN
cmd	String

pim.vsm.RtxIngVLANQuery

Description

Indicates that an ingress VLAN query request is being retransmitted to MLAG peer due to query timer expiry.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Retransmitting ingress VLAN query request for S `%src%`, G `%grp%` on ISC `%isc%`, Num Retries `%retries%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
isc	uInt16
retries	uInt

pim.vsm.RtxTimerExpNoRspns

Description

Indicates that ingress VLAN query request command has been retransmitted to MLAG peer for maximum number of times without any response. This means that the local

switch will not have the peer's ingress VLAN information which may result in PIM not performing as expected over MLAG egresses.

Remedy

Check whether the peer switch is UP and running. If there is lot of CPU bound traffic on the peer switch, rectify the same if that is due to some configuration issue. Checkpoint messages may be dropped by the peer switch due to heavy CPU bound traffic. If this is not the case contact technical support with the output of the following commands: 1. show pim 2. show pim cache detail 3. sh mlag ports

Severity

Warning

Message Text

Ingress VLAN query timer expired for S `%src%`, G `%grp%` for ISC `%isc%`, max retries `%retries%` over, no response received

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
isc	uInt16
retries	uInt

pim.vsm.CkptIngVLANInfo

Description

Indicates that Ingress VLAN information is being checkpointed to MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Checkpointing `%cmd%` command to MLAG peer for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
cmd	String

pim.vsm.StrtRtxTimer

Description

Indicates that Retransmit timer is being restarted for the specified multicast cache identified by 'src' and 'grp', for the psecified ISC.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Restarting retransmit timer for S `%src%`, G `%grp%`, ISC `%isc%`, Num Retries `%retries%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
isc	uInt16
retries	uInt

pim.vsm.ClrCacheEgr

Description

During DR change an MLAG peer switch becoming a DR should clear the checkpoint database corresponding to the VLAN on which it has become the DR. This event indicates that the local switch is the DR on the specified VLAN and hence it is clearing off the information pertaining to the specified VLAN from the database entry corresponding to the given source and group.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Clearing egress VLAN `%vlan%` from egress list of S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
vlan	VLAN

pim.vsm.DelCkptNode

Description

Indicates that a checkpoint node identified by the given source an group is being deleted.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Deleting checkpoint node for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.IgnNbrJP

Description

Indicates that periodic join is not being sent on 'vlan' for the specified multicast cache. This is due to the fact that the cache entry has egresses which are checkpointed by the peer and there are no local joins on any of the egress VLANs. Periodic joins will be sent by the peer, who is the DR on the VLAN.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Skipping periodic join for S `%src%`, G `%grp%` on VLAN `%vlan%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
vlan	VLAN

pim.vsm.EgrMLAGStateChg

Description

Indicates that the specified VLAN does not include any MLAG ports. MLAG egresses are treated specially by PIM during asserts and since the specified VLAN has become a non- MLAG VLAN the special treatment no more applies to the VLAN.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

VLAN `%vlan%` changed from MLAG to non-MLAG VLAN

Message Parameters

Name	Type
vlan	VLAN

pim.vsm.StrtBulkCkpt

Description

Indicates that bulk checkpoint has started.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Starting Bulk Checkpoint

pim.vsm.HndlDRChg

Description

Indicates that DR status for the specified VLAN has changed. In the case of PIM MLAG checkpoint database must be updated appropriately and egress information cleared in case such information was checkpointed by the peer.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Handle DR Change for VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

pim.vsm.CacheNotFnd

Description

Indicates that cache entry corresponding to the specified source and group is not found.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Cache not found for S `%src%`, G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.AddRfrshInfoToCkptBuf

Description

Event indicating that a SG Refresh message is being added to checkpoint buffer.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Adding Refresh Information to checkpoint buffer, S `%src%`, G `%grp%`, writeOffset `%offset%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN
offset	uInt

pim.vsm.CkptRfrshInfo

Description

Indicates that a REFRESH command is being checkpointed for the specified source and group to MLAG peer.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Checkpointing SG refresh command to MLAG peer for S `%src%`. G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.ProcSGRfrsh

Description

Indicates that a REFRESH command is being processed for the specified source and group.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Processing SG refresh command from MLAG peer for S `%src%`. G `%grp%`

Message Parameters

Name	Type
src	IPaddrN
grp	IPaddrN

pim.vsm.AddISCPortToVLAN

Description

Indicates that the specified ISC port is being added to the VLAN 'vlan'

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Adding ISC port `%slot%`:`%port%` to VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
slot	uInt
port	uInt

pim.vsm.DelISCPortFmVLAN

Description

Indicates that the specified ISC port is being deleted from the VLAN 'vlan'

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Adding ISC port `%slot%:%port%` to VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
slot	uInt
port	uInt

pim.vsm.VLANISCPortCnt

Description

Specifies the number of ISC ports included in the given VLAN.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Number of ISC ports `%count%` in VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
count	uInt

pim.vsm.EgrISCStateChg

Description

Indicates that the specified VLAN does not include any ISC ports. ISC ingresses are treated specially by PIM during asserts and since the specified VLAN has beome a non-ISC VLAN the special treatment no more applies.

Remedy

No action required - Informational message only.

Severity

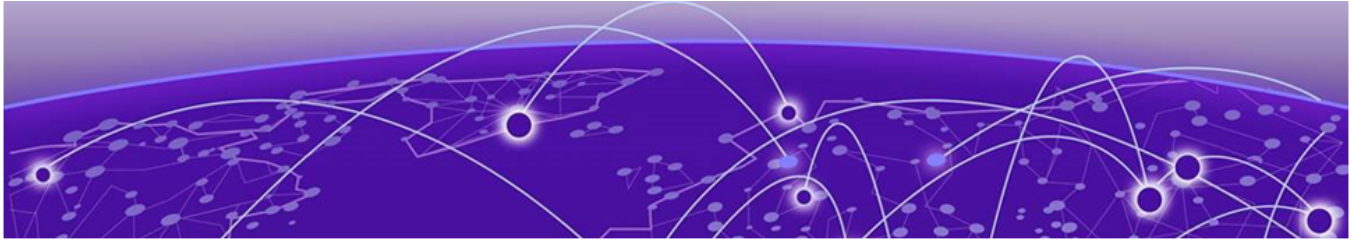
Debug-Summary

Message Text

VLAN `%vlan%` changed from ISC to non-ISC VLAN

Message Parameters

Name	Type
vlan	VLAN



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pm.regCliName

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Policy client `%name%` attempting to register

Message Parameters

Name	Type
name	String

pm.regCliRetVal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Client register return val `%retval%`

Message Parameters

Name	Type
retval	sInt

pm.policyCliRetVal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Client bind/refresh polciy return val `%retval%` for message type `%mtype%`

Message Parameters

Name	Type
retval	sInt
mtype	sInt

pm.incPolicyUsage

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Increment client `%client%` usage of policy `%policy%` usage count is now `%usage%`

Message Parameters

Name	Type
client	String
policy	String
usage	sInt

pm.decrPolicyUsage

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Decrement client `%client%` usage of policy `%policy%` usage count is now `%usage%`

Message Parameters

Name	Type
client	String
policy	String
usage	sInt

pm.getPolretVal

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Get Policy return val `%retval%`

Message Parameters

Name	Type
retval	sInt

pm.clientNotFound

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Client not found for peer `%peerid%`

Message Parameters

Name	Type
peerid	sInt

pm.newCliPeer

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Got new message from new client peer ID `%peerId%`

Message Parameters

Name	Type
peerId	sInt

pm.peerDisconnect

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Disconnect from peer `%peerId%`

Message Parameters

Name	Type
peerId	sInt

pm.checkPolPass

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

Policy `%polName%` PASSED syntax check.

Message Parameters

Name	Type
polName	String

pm.checkPolFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

Policy `%polName%` FAILED syntax check.

Message Parameters

Name	Type
polName	String

pm.refPNotOnFile

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Refresh: polciy `%polName%` not on file system.

Message Parameters

Name	Type
polName	String

pm.refPError

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Refresh: error retturn value `%retval%`

Message Parameters

Name	Type
polName	String
retval	sInt

pm.refPNotOnServ

Description

No description is available.

Remedy

No remedy is available.

Severity

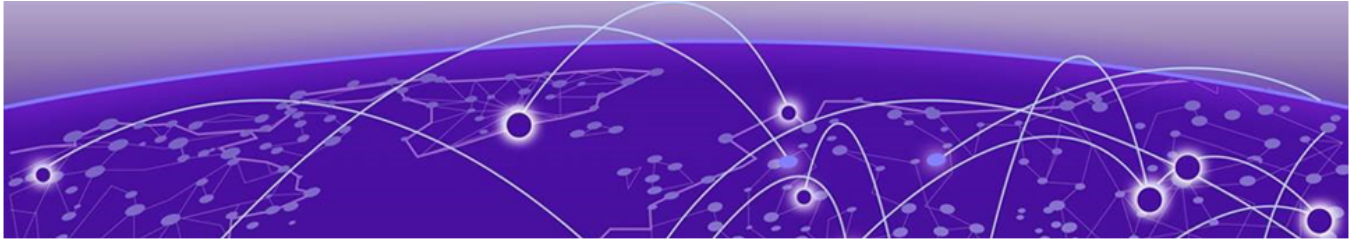
Warning

Message Text

Refresh: policy not in server memory

Message Parameters

Name	Type
polaname	String



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pm.config.openFile

Description

The file polName.pol does not exist on the file system.

Remedy

add file

Severity

Warning

Message Text

Policy `%polName%` does not exist on file system.

Message Parameters

Name	Type
polName	String

pm.config.openingFile

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Loading policy `%polName%` from file `%fileName%`

Message Parameters

Name	Type
polName	String
fileName	String

pm.config.parseLine

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Parse Line: `%lineNumber%`: `%line%`

Message Parameters

Name	Type
lineNumber	sInt
line	String

pm.config.entryName

Description

No description is available.

Remedy

Entry name has to be 32 or less characters.

Severity

Error

Message Text

entryName `%entryName%` is too long

Message Parameters

Name	Type
entryName	String

pm.config.unExpectCharEn

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNo%` :Unexpected characters after entry name.

Message Parameters

Name	Type
lineNo	sInt

pm.config.missingEolTok

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Missing `%Tok%` at end of line.

Message Parameters

Name	Type
lineNumber	sInt
Tok	String

pm.config.gotKeyWord

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Line `%lineNumber%` :Got Keyword `%keyWord%`

Message Parameters

Name	Type
lineNumber	sInt
keyWord	String

pm.config.expKeyWord

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Did not get expected keyword `%expKeyWord%`, `%gotWord%` is not valid.

Message Parameters

Name	Type
lineNumber	sInt
expKeyWord	String
gotWord	String

pm.config.expKeyWords

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Did not get expected keyword `%expKeyWord1%` or ,`%expKeyWord2%` , `%gotWord%` is not valid.

Message Parameters

Name	Type
lineNumber	sInt
expKeyWord1	String
expKeyWord2	String
gotWord	String

pm.config.unExpectChar

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNo%` :Contains unexpected characters `%text%`

Message Parameters

Name	Type
lineNo	sInt
text	String

pm.config.missingEoStTok

Description

Missinog ";" at the end of a statement.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Missing `%Tok%` at end of statement.

Message Parameters

Name	Type
lineNumber	sInt
Tok	String

pm.config.missingAttrArgs

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Attribute `%attr%` requires more arguments.

Message Parameters

Name	Type
lineNumber	sInt
attr	String

pm.config.missingEoEntTok

Description

Missing "}" at the end of an entry.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Could not find `%Tok%` at end of policy entry.

Message Parameters

Name	Type
lineNumber	sInt
Tok	String

pm.config.failedLoad

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Failed to load Policy `%policy%`

Message Parameters

Name	Type
policy	String

pm.config.loaded

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Loaded Policy: `%policy%` number of entries `%noEntries%`

Message Parameters

Name	Type
policy	String
noEntries	sInt

pm.config.attrIndex

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Line `%lineNumber%` :Attribute index for `%attr%` is `%index%`

Message Parameters

Name	Type
lineNumber	sInt
attr	String
index	sInt

pm.config.attrInValid

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Attribute `%attr%` is not valid attribute.

Message Parameters

Name	Type
lineNumber	sInt
attr	String

pm.config.inValidMatch

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Attribute `%attr%` is not valid match attribute.

Message Parameters

Name	Type
lineNumber	sInt
attr	String

pm.config.inValidSet

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Attribute `%attr%` is not valid set attribute.

Message Parameters

Name	Type
lineNumber	sInt
attr	String

pm.config.argVal

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Line `%lineNumber%` :Argument value `%value%`

Message Parameters

Name	Type
lineNumber	sInt
value	String

pm.config.checkArgKeyWord

Description

Is argument value a keyword.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Line `%lineNumber%` :Check if value or word \"`%value%`\" is a key word.

Message Parameters

Name	Type
lineNumber	sInt
value	String

pm.config.argValRegex

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Line `%lineNumber%` :Argument value \"`%value%`\" is a Regex.

Message Parameters

Name	Type
lineNumber	sInt
value	String

pm.config.gotAllArgs

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Line `%lineNumber%` :Got all attribute argumnets index `%index%`

Message Parameters

Name	Type
lineNumber	sInt
index	sInt

pm.config.oneArgValue

Description

For now only allowing one value per Match statement argument.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Only one argument value expected in Match Statement for each Attribute argument, \"`%value%`\" is invalid

Message Parameters

Name	Type
lineNumber	sInt
value	String

pm.config.tooFewArgs

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Too few argumnets

Message Parameters

Name	Type
lineNumber	sInt

pm.config.tooManyArgs

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Too many argumnets from `%text%`

Message Parameters

Name	Type
lineNumber	sInt
text	String

pm.config.getArgRetVal

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

pmGetArguments return val = `%retval%`

Message Parameters

Name	Type
retval	sInt

pm.config.gotToken

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Line `%lineNumber%` :Got `%Tok%`.

Message Parameters

Name	Type
lineNumber	sInt
Tok	String

pm.config.attrTypeKeyWord

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Attribute Type got keyword `%text%`

Message Parameters

Name	Type
text	String

pm.config.checkAttrType

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

pmCheckAType = `%type%`

Message Parameters

Name	Type
type	sInt

pm.config.isAnyAlpha

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

pmIsAnyAlpha retval `%retval%` for value `%text%`

Message Parameters

Name	Type
retval	sInt
text	String

pm.config.isRegex

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

pmIsRegexretval `%retval%` for value `%text%`

Message Parameters

Name	Type
retval	sInt
text	String

pm.config.setAttr

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Set Attribute `%attr%`

Message Parameters

Name	Type
attr	String

pm.config.chkAttrTypeRetV

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

pmCheckAType retval = `%retval%`

Message Parameters

Name	Type
retval	sInt

pm.config.argValInvalid

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Failed argument value `%text%` is invalid

Message Parameters

Name	Type
text	String

pm.config.prevArgValRegex

Description

Range arguments cannot be a regualar expressions.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Line `%lineNumber%` :Previous argument value is a Regex.

Message Parameters

Name	Type
lineNumber	sInt

pm.config.maxArgLen

Description

Attribute argument string length should cannot be greater than maxLen, currently set to 500 characters/bytes.

Remedy

No remedy is available.

Severity

Error

Message Text

Argument length exceeded max length of `%maxLen%`

Message Parameters

Name	Type
maxLen	sInt

pm.config.incompleteRange

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Range arguments incomplete, line `%Line%`, missing second argument.

Message Parameters

Name	Type
Line	sInt

pm.config.tooManyHyphen

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Too many hyphens in range argument line: `%Line%`

Message Parameters

Name	Type
Line	sInt

pm.config.missingCloseQ

Description

Arguments that are qouted need both opening and closing quotes.

Remedy

No remedy is available.

Severity

Error

Message Text

Missing close qoute, line: `%Line%`

Message Parameters

Name	Type
Line	sInt

pm.config.emptyQuote

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

Empty qoute, line: `%Line%`

Message Parameters

Name	Type
Line	sInt

pm.config.needAlphaNum

Description

Need Alpha numeric expression or "." character before $ or * or + or ?

Remedy

No remedy is available.

Severity

Error

Message Text

Alpha numberic expression or \"\" required before regular expression character,line: `%Line%`

Message Parameters

Name	Type
Line	sInt

pm.config.invalidASPVal

Description

As path value should be 1 through 65535.

Remedy

No remedy is available.

Severity

Error

Message Text

Invalid AS-PATH value ,line: `%Line%`

Message Parameters

Name	Type
Line	sInt

pm.config.invalidCOMVal

Description

Community value should be 1 through 4294967295.

Remedy

No remedy is available.

Severity

Error

Message Text

Invalid Community value ,line: `%Line%`

Message Parameters

Name	Type
Line	sInt

pm.config.argStrLenLong

Description

Argument string length should not be greater than 500 characters.

Remedy

No remedy is available.

Severity

Error

Message Text

Argument String length greater than `%length%`, line: `%Line%`

Message Parameters

Name	Type
Line	sInt
length	sInt

pm.config.beforePack

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Argument String before packing , line: `%Line%` :`%arguments%`:

Message Parameters

Name	Type
Line	sInt
arguments	String

pm.config.afterPack

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Argument String after packing , line: `%Line%` :`%arguments%`:

Message Parameters

Name	Type
Line	sInt
arguments	String

pm.config.afterExpRegex

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Argument String after expanding regular expression , line: `%Line%` :`%arguments%`:

Message Parameters

Name	Type
Line	sInt
arguments	String

pm.config.beforeExpRegex

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Argument String before expanding regular expression , line: `%Line%`:`%arguments%`:

Message Parameters

Name	Type
Line	sInt
arguments	String

pm.config.beforeHex

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Argument String before convering integer string to hex string , line: `%Line%`:`%arguments%`:

Message Parameters

Name	Type
Line	sInt
arguments	String

pm.config.afterHex

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Argument String after convering integer string to hex string , line: `%Line%` :`%arguments%`:

Message Parameters

Name	Type
Line	sInt
arguments	String

pm.config.argValRegRange

Description

Range values cannot be a regular expressions.

Remedy

No remedy is available.

Severity

Error

Message Text

Line `%lineNumber%` :Range argument value \"`%value%`\" is a Regex

Message Parameters

Name	Type
lineNumber	sInt
value	String

pm.config.notValidRegex

Description

Regular expression compiler checks the validity of string and prints out any errors.

Remedy

No remedy is available.

Severity

Error

Message Text

Not a valid regular expression `%errorString%` (`%string%`)

Message Parameters

Name	Type
errorString	String
string	String

pm.config.synoEndVal

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Found end val for synonym `%checkWord%` and set to `%setval%`

Message Parameters

Name	Type
checkWord	String
setval	String

pm.config.synoStartValR

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Found start val for synonym `%Checkword%` and set to `%setval%`

Message Parameters

Name	Type
Checkword	String
setval	String

pm.config.synoStartValNR

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Found value for synonym `%Checkword%` and set to `%setval%`

Message Parameters

Name	Type
Checkword	String
setval	String

pm.config.synoFail

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

No synonym for `%Checkword%`

Message Parameters

Name	Type
Checkword	String

pm.config.beforeSpace

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Argument String before add spaces around char %ch% , line: %Line% :%arguments%:

Message Parameters

Name	Type
Line	sInt
arguments	String
ch	Char

pm.config.afterSyno

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Argument String after converting string containing synoyms to their actual values , line: %Line% :%arguments%:

Message Parameters

Name	Type
Line	sInt
arguments	String

pm.config.afterSpace

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Argument String after adding spaces around char `%ch%` , line: `%Line%` :`%arguments%`:

Message Parameters

Name	Type
Line	sInt
arguments	String
ch	Char

pm.config.beforeSyno

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Argument String before converting string containing synoyms to their actual values , line: `%Line%` :`%arguments%`:

Message Parameters

Name	Type
Line	sInt
arguments	String

pm.config.afterExpGrpKWs

Description

Group keywords are expanded into their elements For Example: route-origin bgp becomes: route-origin bgp e-bgp i-bgp mbgp i-mbgp e-mbgp

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Argument String after expanding group key words , line: `%Line%`:`%String%`:

Message Parameters

Name	Type
Line	sInt
String	String

pm.config.beforeExpGrpKWs

Description

Group keywords are expanded into their elements For Example: route-origin bgp becomes: route-origin bgp e-bgp i-bgp mbgp i-mbgp e-mbgp

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Argument String before expanding group key words , line: `%Line%` :`%String%`:

Message Parameters

Name	Type
Line	sInt
String	String

pm.config.argValOutRange

Description

Argument value has a set range that is valid, starting from and including start up to and including end.

Remedy

No remedy is available.

Severity

Error

Message Text

Argument value `%text%` is out of range, should be from `%start%` to `%end%`

Message Parameters

Name	Type
text	String
start	String
end	String

pm.config.argOverUnderFlw

Description

Argument value over or underflowed for the the set type, the value should be from and including start up to and including end.

Remedy

No remedy is available.

Severity

Error

Message Text

Argument value `%text%` is out of range, should be from `%start%` to `%end%`

Message Parameters

Name	Type
text	String
start	String
end	String

pm.config.duplicateEntryN

Description

Policy Entry name have to be unique.

Remedy

No remedy is available.

Severity

Error

Message Text

Line:`%Line%` : Duplicate Entry name: `%name%`:

Message Parameters

Name	Type
Line	sInt
name	String

pm.config.multiplePerm

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Multiple permissons set in entry `%entry%`. Permisson `%permission%` will be applied, line:`%Line%`

Message Parameters

Name	Type
Line	sInt32
permission	String
entry	String

pm.config.catchAllEntry

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Entry `%name%` is a catch all entry. Entries beyound this entry will not be reached.

Message Parameters

Name	Type
name	String

pm.config.permDenied

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

User denied access to file `%name%`.

Message Parameters

Name	Type
name	String

pm.config.repeatedCom

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Line: `%Line%` Community value `%com%` is repeated in same statement.

Message Parameters

Name	Type
Line	sInt32
com	String

pm.config.IpMaskHole

Description

No description is available.

Remedy

No remedy is available.

Severity

Error

Message Text

IP mask `%mask%` is not a valid mask.

Message Parameters

Name	Type
mask	String

pm.config.refreshed

Description

No description is available.

Remedy

add file

Severity

Warning

Message Text

Policy `%polName%` has been refreshed

Message Parameters

Name	Type
polName	String

pm.config.readTimeOut

Description

For large policies (more than 1000 lines), policy manager times out for 1 second every 1000 lines so that policy manager can do other tasks assigned to it.

Remedy

No remedy is available.

Severity

Warning

Message Text

Read Time out for policy `%polName%` at line `%LineNumber%`

Message Parameters

Name	Type
polName	String
LineNumber	sInt32

pm.config.refreshClientP

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Refreshed policy `%polName%` successfully sent to client `%Client%`

Message Parameters

Name	Type
polName	String
Client	String

pm.config.refreshClientF

Description

This can happen when the client no longer exists.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Policy manager was not able to send refreshed policy `%polName%` to client `%Client%`

Message Parameters

Name	Type
polName	String
Client	String

pm.config.attrInValidApp

Description

The attribute is unknown or is not valid for this application.

Remedy

Ensure that the attribute is correct. Use cli command "check policy attribute", to check for valid attributes

Severity

Error

Message Text

Line `%lineNumber%` :Attribute `%attr%` is not valid \"`%Application%`\" attribute.

Message Parameters

Name	Type
lineNumber	sInt
attr	String
Application	String

pm.config.hardRefCli

Description

A hard refresh can be forced using the hidden hard refresh command.

Remedy

None.

Severity

Warning

Message Text

`%polName%` to be refresh using hard refresh.

Message Parameters

Name	Type
polName	String

pm.config.hardRefForced

Description

Forcing a hard refresh since the system cannont figure out the changes to do a smart refresh.

Remedy

None.

Severity

Warning

Message Text

Unable to find changes for `%polName%` . Cannot do smart refresh, forcing hard refresh.

Message Parameters

Name	Type
polName	String

pm.config.InvalidAclAttribute

Description

The attribute is not valid for Acl manager. It is valid attribute but it applies to another client for example routing. It will be ignored by acl manager and treated as if it does not exist.

Remedy

No remedy is available.

Severity

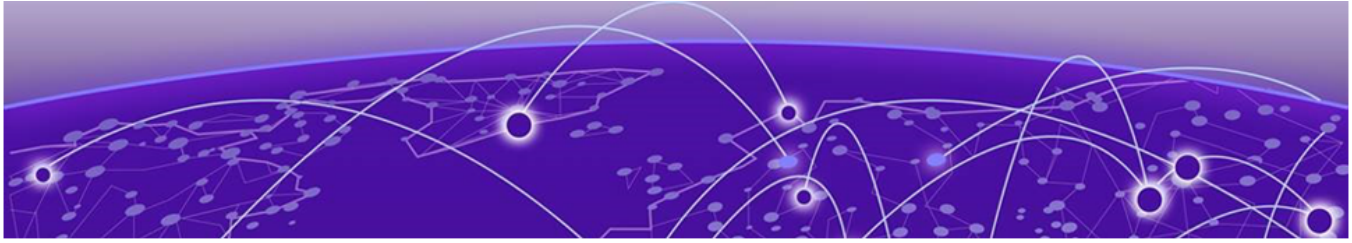
Warning

Message Text

Policy `%polName%` , line `%lineNumber%` the attribute `%attribute%` is not valid for installing ACL's. It will be ignored by ACL manager.

Message Parameters

Name	Type
polName	String
lineNumber	sInt32
attribute	String



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POE.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

POE.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

POE.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in

general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

POE.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

POE.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

POE.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

POE.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

POE.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

POE.CreatePortFail

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

Error initializing port `%slotPort%`

Message Parameters

Name	Type
slotPort	String

POE.Enter

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%Function%` - Entry

Message Parameters

Name	Type
Function	String

POE.halSend

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Sending HAL msg type `%Type%` for port `%Port%`. Optional data `%Data1%` `%Data2%` `%Data3%`

Message Parameters

Name	Type
Port	SlotPort
Type	xInt32
Data1	xInt32
Data2	xInt32
Data3	xInt32

POE.halRecv

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Msg recvd from HAL of type `%Type%` for port `%Port%`...Data `%Data1%` `%Data2%` `%Data3%` `%Data4%` `%Data5%` `%Data6%`

Message Parameters

Name	Type
Port	SlotPort
Type	xInt32
Data1	xInt32
Data2	xInt32
Data3	xInt32
Data4	xInt32
Data5	xInt32
Data6	xInt32

POE.test

Description

No description is available.

Remedy

No remedy is available.

Severity

Warning

Message Text

test msg

POE.poe_trace

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

TRACE msg

POE.power_exceeded

Description

The power consumption used by Power-over-Ethernet devices is exceeding the system-wide threshold.

Remedy

Increase the amount of power available for the slot, or reduce the amount of power being used by the Power-over-Ethernet devices.

Severity

Warning

Message Text

Power usage exceeding threshold for slot `%slotnum%`

Message Parameters

Name	Type
slotnum	uInt

POE.power_cleared

Description

The power usage condition previously reported has been cleared. Power consumption is now below the usage threshold.

Remedy

No action required.

Severity

Notice

Message Text

Power usage threshold condition cleared, slot `%slotnum%`

Message Parameters

Name	Type
slotnum	uInt

POE.power_denied

Description

The specified port was denied power due to insufficient power configured for the slot.

Remedy

Increase the budgeted power for the slot.

Severity

Warning

Message Text

Port `%slotPort%` was denied power

Message Parameters

Name	Type
slotPort	String

POE.port_fault

Description

The specified port has encountered a condition which has resulted in it entering a fault state.

Remedy

If the fault is due to an insufficient power limit, increase the operator limit for the port.

Severity

Error

Message Text

Port `%slotPort%` has encountered a fault condition

Message Parameters

Name	Type
slotPort	String

POE.port_state

Description

The specified port has entered the specified state.

Remedy

No action required.

Severity

Info

Message Text

Port `%slotPort%` has entered the `%state%` state

Message Parameters

Name	Type
slotPort	String
state	String

POE.port_delivering

Description

The specified port is delivering power.

Remedy

No action required.

Severity

Notice

Message Text

Port `%slotPort%` is delivering power

Message Parameters

Name	Type
slotPort	String

POE.cardbringup

Description

The specified inline-power module encountered an error when initializing.

Remedy

Run diagnostics on the slot.

Severity

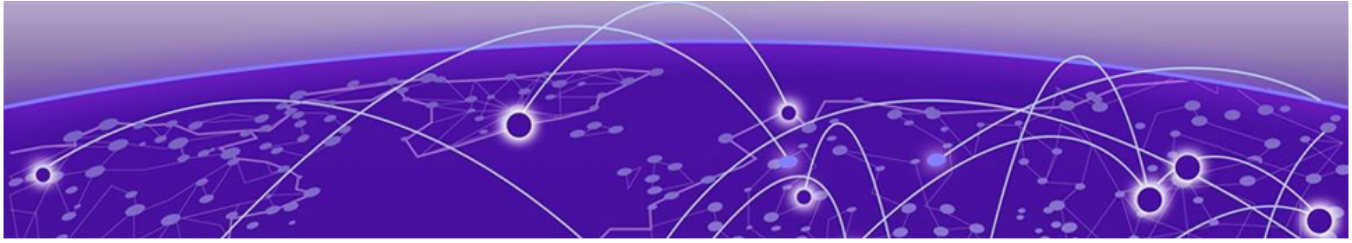
Error

Message Text

Error initializing inline-power module in slot `%slot%`

Message Parameters

Name	Type
slot	uInt



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Policy.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

Policy.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

Policy.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

Policy.RxPkt

Description

This event occurs when policy receives a packet.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Incoming packet from port `%slotport%` with a length of `%len%` bytes

Message Parameters

Name	Type
slotport	ingressSlotPort
ptr	Buf-ptr
len	Buf-len

Policy.TxPkt

Description

This event occurs when policy transmits a packet.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Outgoing packet to port `%slotport%` with a length of `%len%` bytes

Message Parameters

Name	Type
slotport	egressSlotPort
ptr	Buf-ptr
len	Buf-len

Policy.SessAuth

Description

This event occurs when an agents session is authenticated to a new profile.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%Agent%` session for `%RuleDescription%` authenticated to Profile `%pid%` (`%ProfileName%`).

Message Parameters

Name	Type
Agent	String
RuleDescription	String
pid	uInt16
ProfileName	String

Policy.ProcSess

Description

This event occurs when an agents authentication session is in process.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%Agent%` authentication for `%RuleDescription%` In Process.

Message Parameters

Name	Type
Agent	String
RuleDescription	String

Policy.TermSess

Description

This event occurs when an agents authentication session is terminated.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%Agent%` session for `%RuleDescription%` terminated (`%TerminateString%`).

Message Parameters

Name	Type
Agent	String
RuleDescription	String
TerminateString	String

Policy.SessLmtExcd

Description

This event occurs when a rule could not be applied due to resource limitations.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Policy `%pid%`(`%ProfileName%`) assignment by rule `%RuleDescription%` failed (exceeded `%FailureReason%` limits).

Message Parameters

Name	Type
pid	uInt16
ProfileName	String
RuleDescription	String
FailureReason	String

Policy.AllocMemFail

Description

This event occurs when a policy client memory allocation fails.

Remedy

This is a rare internal condition needing technical assistance. Restart the policy client process using the CLI command "restart process policy". If the event still occurs, contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Critical

Message Text

Failed allocating memory for policy client (`%object%`).

Message Parameters

Name	Type
object	String

Policy.InitParmInv

Description

This event occurs when policy cannot initialize with the default parameters provided at startup.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Error

Message Text

Policy initialization parameters are out of range (`%numRules%`,`%numMuxRules%`,`%numProfiles%`).

Message Parameters

Name	Type
numRules	uInt32
numMuxRules	uInt32
numProfiles	uInt32

Policy.RuleRangeExcd

Description

This event occurs when a policy lookup of a mux index for a specific port produces and invalid index.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

Policy Mux index `%Index%` out of range for `%systemPort%`.

Message Parameters

Name	Type
Index	uInt16
systemPort	uInt16

Policy.AddRuleListFail

Description

This event occurs when a policy mux rule could not be added to the list.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

muxRuleChain error (`%idx% %list% %head% %tail% %ordered%`)

Message Parameters

Name	Type
idx	uInt
list	uInt
head	uInt32
tail	uInt16
ordered	String

Policy.AddAntiSpoofListFail

Description

This event occurs when a policy anti-spoof rule could not be added to the list.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

Policy antiSpoofIpChain error (`%idx% %head% %next% %previous%`)

Message Parameters

Name	Type
idx	uInt
head	uInt
next	uInt
previous	uInt

Policy.DelRuleListFail

Description

This event occurs when a policy mux rule could not be removed from the list.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

Policy Mux Rule UnChain error (`%idx% %list% %head% %tail%`)

Message Parameters

Name	Type
idx	uInt
list	uInt
head	uInt32
tail	uInt16

Policy.DelAntiSpoofListFail

Description

This event occurs when a policy anti-spoof rule could not be removed from the list.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

Policy antiSpoofIpUnChain error (`%idx% %head% %idxV4Addr% %headV4Addr%`)

Message Parameters

Name	Type
idx	uInt
head	uInt
idxV4Addr	uInt32
headV4Addr	uInt32

Policy.InitClntFail

Description

This event occurs when a policy client fails to initialize.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

Policy client initiailzation failed.

Policy.SetNameLenExcd

Description

This event occurs when a policy profile name set by the client is too long to store.

Remedy

Use a shorter profile name.

Severity

Notice

Message Text

Policy profile name `%profileName%` length `%length%` is too long for defined data type.

Message Parameters

Name	Type
profileName	String
length	uInt32

Policy.RxVerInv

Description

This event occurs when the policy library detected a message version error from a peer. The version encoded in the message received from the peer was the incorrect size and could not be decoded, this message is discarded.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

Invalid message `%version%` size `%size%` received from peerId: `%peerId%`

Message Parameters

Name	Type
version	uInt16
size	uInt32
peerId	uInt

Policy.AllocPktFail

Description

This event will occur if the client fails to allocate the memory required for a packet transmit.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

Policy client failed to allocate packet of size `%size%`.

Message Parameters

Name	Type
size	uInt32

Policy.RegApplFail

Description

This event will occur when policy failed to register with an application required for full operation.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

Policy failed to register with required application `%registerApp%`.

Message Parameters

Name	Type
registerApp	String

Policy.TxPeerFail

Description

This event will occur when policy failed to send message to peer.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Warning

Message Text

Policy send to `%peerId%` failed with result `%policyResult%`.

Message Parameters

Name	Type
peerId	uInt
policyResult	uInt

Policy.RxVerWrong

Description

This event occurs when policy received a newer message version from a peer than what is locally supported.

Remedy

No action required - Informational message only. This event should only happen temporarily while the system is adding new devices to stack or chassis.

Severity

Debug-Summary

Message Text

Recieved newer message version `%rxVersion%` from peerId `%peerId%`, local version `%localVersion%`.

Message Parameters

Name	Type
rxVersion	uInt16
peerId	uInt
localVersion	uInt16

Policy.SendACLReqFail

Description

This event occurs when a request to manipulate a hardware rule or related resource fails. action: - add rule - delete rule - configure rule - unconfigure rule - reserve - unreserve

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Error

Message Text

Request to `%action%` `%name%` failed with return value `%retVal%`.

Message Parameters

Name	Type
action	String
name	String
retVal	sInt

Policy.CfgHwEntFail

Description

This event occurs when an operation to manipulate a hardware rule fails. action: - addition - deletion - configuration - unconfiguration

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Error

Message Text

Hardware `%action%` of rule failed for `%ruleName%` with return value `%retVal%`.

Message Parameters

Name	Type
action	String
ruleName	String
retVal	sInt

Policy.CfgHwRsrcFail

Description

This event occurs when an operation to manipulate a rule resource fails. action: - reserve: Designate hardware resources for use by policy - unreserve: Cancel previous reservation

Remedy

This is a rare internal condition needing technical assistance. Contact technical support after gathering relevant information using "show tech-support" CLI command and uploading the debug data out of the switch using "upload debug <ipaddress> vr vr-mgmt" CLI command.

Severity

Error

Message Text

Failed to `%action%` hardware rules of type `%ruleType%`.

Message Parameters

Name	Type
action	String
ruleType	String

Policy.CfgHwRsrcExcd

Description

This event occurs when a slot is added to a running Policy configuration which exceeds the hardware capabilities of the new slot.

Remedy

Reduce the number of Policy rules configured to allow ports on the device to operate with Policy.

Severity

Warning

Message Text

Policy hardware resources for slot `%slotNum%` are insufficient to operate with the current running configuration. Reduce Policy rule usage to allow this slot to become Policy capable.

Message Parameters

Name	Type
slotNum	Slot

Policy.CfgHwRsrcAvail

Description

This event occurs when the Policy configuration changes such that a slot who's hardware was previously not capable of running Policy is now within allowable range.

Remedy

Reboot the slot to gain full Policy functionality on the slot.

Severity

Notice

Message Text

Policy's configuration now allows for slot `%slotNum%` to participate in Policy operation. Reboot slot `%slotNum%` to gain Policy functionality for that slot.

Message Parameters

Name	Type
slotNum	Slot

Policy.AddUserPortVLANFail

Description

This event occurs when an attempt to add a port to a VLAN fails.

Remedy

This is an unexpected event, that however could occur in some cases due to a misconfiguration. For example if the port is configured to a specific Virtual-Router (VR) and the VLAN exists (or is being created) on a different VR.

Severity

Error

Message Text

User `%mac%` could not be added on port `%port%` to VLAN `%vlan%`

Message Parameters

Name	Type
mac	MAC
port	uInt32
vlan	uInt16

Policy.CreatSessUserDfltVR

Description

This event occurs when an authenticated session receives a Virtual-Router name that is not configured on the device.

Remedy

This condition can happen if the session's Virtual Router name is mistakenly not configured, or is simply not desired to be used.

Severity

Notice

Message Text

Cannot create session for user `%mac%` with unconfigured Virtual-Router `%vr%`, VR-Default will be used.

Message Parameters

Name	Type
mac	MAC
vr	String

Policy.LogRuleHit

Description

This event informs the user that a rule has been used. Only sent if a rule is configured to syslog when hit.

Remedy

No action required - Informational message only. This event should only happen when the specified rule is configured to syslog when hit.

Severity

Info

Message Text

{ `%TrafficDesc%` `%Actions%` } `%Results%`

Message Parameters

Name	Type
TrafficDesc	String
Actions	String
Results	String

Policy.SetNameInvChr

Description

This event informs the user that certain characters are not recommended in policy profile names

Remedy

No action required - Notification message only. However, for the policy RADIUS filter-id attribute to be handled properly, these characters should be omitted from the policy name.

Severity

Notice

Message Text

For compatibility with RADIUS, the policy profile name `%PolicyName%` should not contain characters in the set '`%ProblematicCharacters%`'

Message Parameters

Name	Type
PolicyName	String
ProblematicCharacters	String

Policy.UncfgObsltPcdnc

Description

This event occurs when loading a configuration saved with an EXOS image that supported different profile precedence rules than the current image.

Remedy

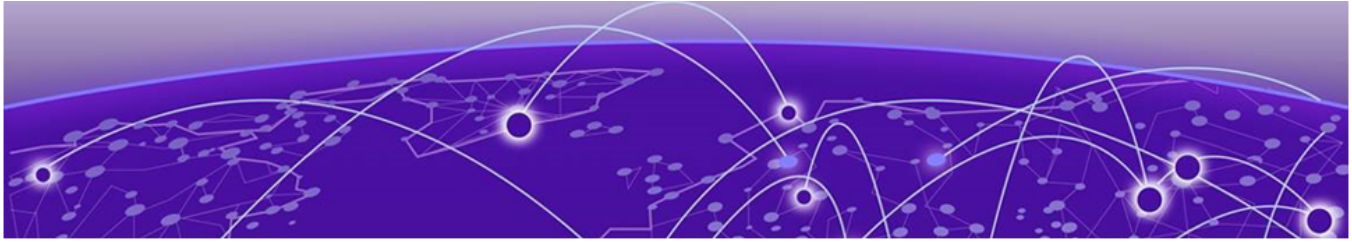
No action required - Notification message only. However, if you had non-default profile precedence configuration you will need to re-configure them.

Severity

Notice

Message Text

This configuration was saved with a version of EXOS supporting different profile precedence rules. Default values will be configured.



PTPv2 Messages

PTPv2.Critical on page 4423
PTPv2.Error on page 4424
PTPv2.Warning on page 4424
PTPv2.Info on page 4425
PTPv2.DebugSummary on page 4426
PTPv2.AllocMemFail on page 4427

PTPv2.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

PTPv2.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

PTPv2.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

PTPv2.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

PTPv2.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

PTPv2.AllocMemFail

Description

The system tried to allocate memory but failed in doing so. This condition is mainly due to system starvation or an extremely low memory condition.

Remedy

A possible remedy is to use "show memory" and "show log" commands to monitor the memory status of different processes. Depending on the results of these commands, the system configuration may need to be changed or memory may need to be freed by ending processes which are currently not needed.

Severity

Error

Message Text

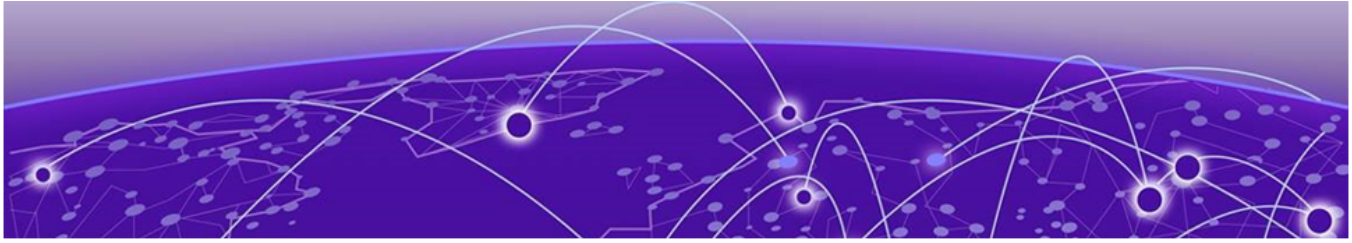
Failed to obtain `%size%` bytes of memory for `%message%`

Message Parameters

Name	Type
message	String
size	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



PWMIB Messages

PWMIB.Enter on page 4428
PWMIB.Exit on page 4429
PWMIB.CreatPWEnt on page 4429
PWMIB.DelPWEnt on page 4430
PWMIB.SyncPWEnt on page 4431
PWMIB.ModPWEnt on page 4431
PWMIB.UpdtPWOperStat on page 4432
PWMIB.ParmInv on page 4432
PWMIB.SendPWStatusTrap on page 4433
PWMIB.PWIndexExist on page 4433
PWMIB.ParmNull on page 4434
PWMIB.StrtFail on page 4435
PWMIB.ClnupProcPWEnt on page 4435
PWMIB.InitOK on page 4436
PWMIB.RecvMsgType on page 4436
PWMIB.SendMsgType on page 4437
PWMIB.RecvMsgFail on page 4437
PWMIB.SendMsgFail on page 4438
PWMIB.InitFail on page 4438
PWMIB.AllocMemFail on page 4439

PWMIB.Enter

Description

function entry

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

Function `%function%` is entered

Message Parameters

Name	Type
function	String

PWMIB.Exit

Description

Function exit

Remedy

No Action Required - Information Message Only.

Severity

Debug-Verbose

Message Text

Function `%function%` is exited

Message Parameters

Name	Type
function	String

PWMIB.CreatPWEnt

Description

PWMIB Entry Create Debug Information.

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

PWMIB Entry created with pwID: `%pwID%` pwType: `%pwType%` pwPeerAddrType: `%pwPeerAddrType%` pwPeerAddr: `%pwPeerAddr%`. Allocated pwIndex: `%pwIndex%`

Message Parameters

Name	Type
pwID	uInt32
pwType	uInt32
pwPeerAddrType	uInt32
pwPeerAddr	String
pwIndex	uInt32

PWMIB.DelPWEnt

Description

PWMIB Entry Delete Debug Information.

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

PWMIB Entry with pwIndex: `%pwIndex%` and pwID: `%pwID%` is deleted

Message Parameters

Name	Type
pwIndex	uInt32
pwID	uInt32

PWMIB.SyncPWEnt

Description

PWMIB Entry Sync Debug Information.

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

PWMIB Entry with pwIndex: `%pwIndex%` is synced

Message Parameters

Name	Type
pwIndex	uInt32

PWMIB.ModPWEnt

Description

PWMIB Entry Data Modification

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

`%memberName%` of PWMIB Entry with pwIndex: `%pwIndex%` has been modified to `%memberValue%`

Message Parameters

Name	Type
pwIndex	uInt32
memberName	String
memberValue	Printf

PWMIB.UpdtPWOperStat

Description

PWMIB Operational Status Update

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

PWMIB operational status changed from `%prevPwOperStat%` to `%pwOperStat%` of pwIndex: `%pwIndex%`

Message Parameters

Name	Type
pwIndex	uInt32
prevPwOperStat	String
pwOperStat	String

PWMIB.ParmInv

Description

Found PWMIB Manager Function with Wrong Arguments

Remedy

No Action required - Informational message only

Severity

Debug-Summary

Message Text

Wrong / Missed Mandatory arguements for the function: `%function%`

Message Parameters

Name	Type
function	String

PWMIB.SendPWStatusTrap

Description

PWMIB Entry SNMP Trap Sending Information

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

PWMIB Trap Send for pwIndex: `%pwIndex%` pwStatus: `%pwStatus%`

Message Parameters

Name	Type
pwIndex	uInt32
pwStatus	String

PWMIB.PWIndexExist

Description

PWMIB Entry already exists with the pwIndex provided.

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

PWMIB Table already allocated with pwIndex: `%pwIndex%`

Message Parameters

Name	Type
pwIndex	uInt32

PWMIB.ParmNull

Description

An Internal function was called with a NULL pointer. This condition is not expected and the information provided in the associated message is such that the interval workings of the system are exposed

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

Function `%function%` is passed with NULL parameter

Message Parameters

Name	Type
function	String

PWMIB.StrtFail

Description

PWMIB Manager is failed to start due to the following reasons, IPCInitFail - Unable to initialize the Inter Process Communication DSRegFail - Registration with Directory Service failed SnmpRegFail - Failed to register with Snmp Master

Remedy

Switch needs to be rebooted

Severity

Error

Message Text

PWMIB Manager failed to start. Reason: `%reason%`

Message Parameters

Name	Type
reason	String

PWMIB.ClnupProcPWEnt

Description

Clean Up PW Entries of PWMIB Manager Client

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

Clean Up PW Entries of process: `%processName%`

Message Parameters

Name	Type
processName	String
format	Printf

PWMIB.InitOK

Description

PWMIB Manager Initialization

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

PWMIB Mgr Initialization

Message Parameters

Name	Type
format	Printf

PWMIB.RecvMsgType

Description

Received Clients Message

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

Received Message: `%msg%` from client: `%client%`

Message Parameters

Name	Type
msg	String
client	String

PWMIB.SendMsgType

Description

Sent Message to PWMIB Mgr Clients

Remedy

No Action Required - Informational Message Only.

Severity

Debug-Verbose

Message Text

Sent Message: `%msg%` to client: `%client%`

Message Parameters

Name	Type
msg	String
client	String

PWMIB.RecvMsgFail

Description

Inter Process Communication Commands Reception Fault

Remedy

No Action required - Informational message only.

Severity

Debug-Verbose

Message Text

Receiving Message : `%msg%` from client: `%client%` is failed.

Message Parameters

Name	Type
msg	String
client	String

PWMIB.SendMsgFail

Description

Inter Process Communication Commands Send Fault

Remedy

No Action required - Informational message only.

Severity

Debug-Verbose

Message Text

Sending Message: `%msg%` to the client: `%client%` is failed.

Message Parameters

Name	Type
msg	String
client	String

PWMIB.InitFail

Description

PWMIB Mgr Initialization Failed

Remedy

The remedy is to reboot the system.

Severity

Error

Message Text

Failed to initialize PWMIB Mgr. Reson:`%reason%`

Message Parameters

Name	Type
reason	String

PWMIB.AllocMemFail

Description

Memory Allocation Failure

Remedy

Check the scalability limit and compare with the current configurations. Reducing the system configuration may help to reclaim memory. "show memory" command provides all process's current memory usage.

Severity

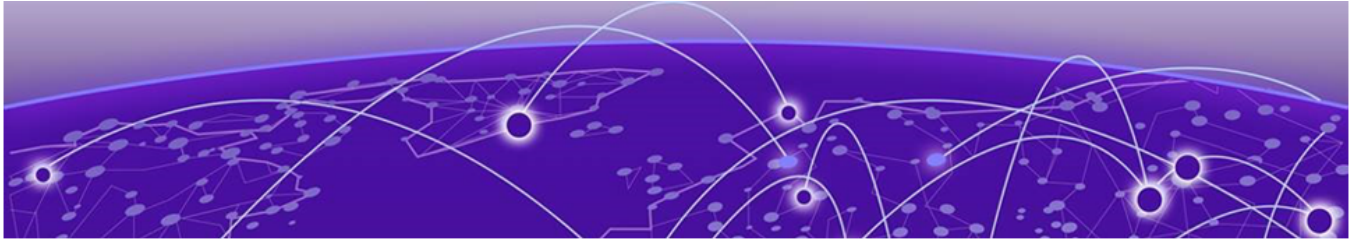
Error

Message Text

Unable to allocate memory of Size: `%size%`

Message Parameters

Name	Type
size	uInt32



rip Messages

rip.init on page 4440
rip.Enbl on page 4440
rip.Dsbl on page 4441

rip.init

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

RIP initialized local variables

rip.Enbl

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

RIP is enabled

rip.Dsbl

Description

No description is available.

Remedy

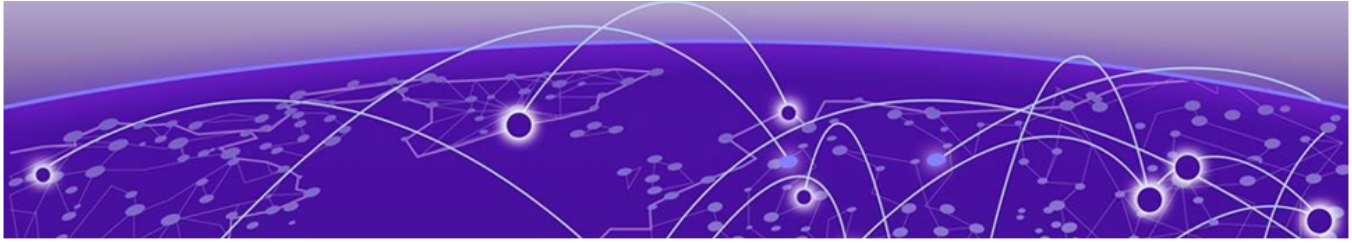
No remedy is available.

Severity

Info

Message Text

RIP is disabled



rip.cfg Messages

rip.cfg.requested on page 4442
rip.cfg.loaded on page 4442
rip.cfg.loadStart on page 4443
rip.cfg.delIfCfg on page 4443
rip.cfg.addAddr2Vlan on page 4444
rip.cfg.delAddr2Vlan on page 4444
rip.cfg.ipForwEnable on page 4445
rip.cfg.ipForwDisable on page 4445
rip.cfg.vlanUp on page 4446
rip.cfg.vlanDown on page 4446

rip.cfg.requested

Description

RIP started, requesting persistent configuration from non volatyile memory.

Remedy

No remedy is available.

Severity

Notice

Message Text

RIP requesting persistent cfg

rip.cfg.loaded

Description

RIP loaded persistent configuration from non voaltile memory.

Remedy

No remedy is available.

Severity

Notice

Message Text

RIP persistent cfg loaded

rip.cfg.loadStart

Description

rip received event "non volatile cfg load start" from device mgr

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

rxed event CM_BACKEND_EVENT_LOAD_START

rip.cfg.delIfCfg

Description

"vlan deleted" event received by RIP. RIP Interface deleted as well.

Remedy

No remedy is available.

Severity

Info

Message Text

VLAN `%vlanName%` has been deleted

Message Parameters

Name	Type
vlanName	String

rip.cfg.addAddr2Vlan

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

`%addr%` has been added to VLAN: `%vlanName%`

Message Parameters

Name	Type
vlanName	String
addr	IP

rip.cfg.delAddr2Vlan

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

`%addr%` has been deleted from VLAN: `%vlanName%`

Message Parameters

Name	Type
vlanName	String
addr	IP

rip.cfg.ipForwEnable

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

ip forwarding has been enabled for VLAN: `%vlanName%`

Message Parameters

Name	Type
vlanName	String

rip.cfg.ipForwDisable

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

ip forwarding has been disabled for VLAN: `%vlanName%`

Message Parameters

Name	Type
vlanName	String

rip.cfg.vlanUp

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

VLAN: `%vlanName%` state has been changed to: UP

Message Parameters

Name	Type
vlanName	String

rip.cfg.vlanDown

Description

No description is available.

Remedy

No remedy is available.

Severity

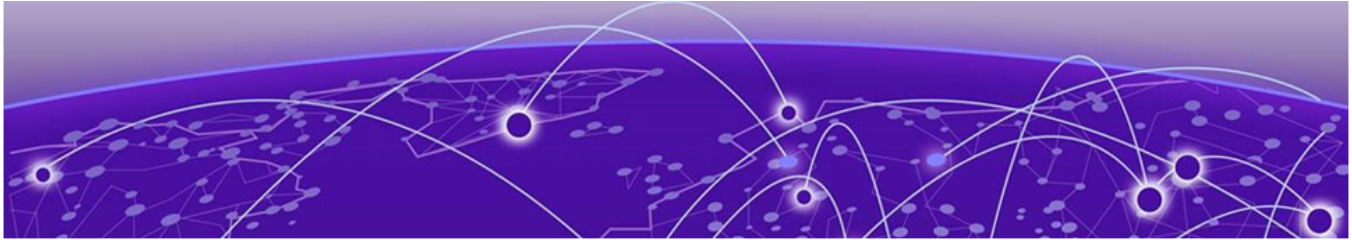
Info

Message Text

VLAN: `%vlanName%` state has been changed to: DOWN

Message Parameters

Name	Type
vlanName	String



rip.event Messages

rip.event.foundRunTimeIf on page 4449
rip.event.registerPMErr on page 4449
rip.event.wrongLibState on page 4450
rip.event.reqFromRmUknown on page 4450
rip.event.polBindErrSysImport on page 4451
rip.event.plcyCbNoNameErr on page 4451
rip.event.pmRegErr on page 4452
rip.event.pmReregErr on page 4452
rip.event.pmMsgErr on page 4453
rip.event.pmMsgUsrErr on page 4453
rip.event.polBindErr on page 4454
rip.event.nonRipRtLeaked on page 4454
rip.event.polUnBindErr on page 4455
rip.event.polUnBindHandleErr on page 4455
rip.event.cliTimeOut on page 4456
rip.event.rxAsyncRespLate on page 4456
rip.event.pmRereg on page 4457
rip.event.getAttrErr on page 4457
rip.event.pmEvalErr on page 4458
rip.event.policyFilter on page 4459
rip.event.pmHandleErr on page 4459
rip.event.ifShutDown on page 4460
rip.event.redistDeny on page 4460
rip.event.ifUp on page 4461
rip.event.addVlanDeny on page 4462
rip.event.redistShutDown on page 4462
rip.event.redistUp on page 4463
rip.event.shutDown on page 4464

rip.event.foundRunTimeIf

Description

while creating a run time rip interface, an already exisiting rip run time interface was found. Continuing with the existing interface.

Remedy

internal problem and warning. no quick remedy possible. report problem.

Severity

Warning

Message Text

ripEnableIfCfg: tried to allocate memory for an already exisiting run time interface: `%vlanName%`

Message Parameters

Name	Type
vlanName	String

rip.event.registerPMErr

Description

No description is available.

Remedy

report problem, reboot system

Severity

Error

Message Text

Registration with Policy Mgr failed

rip.event.wrongLibState

Description

received an event from device manager indicating a library state, which is unknown to RIP.event ingnored.

Remedy

report problem. In case RIP process state is not "ready", restart RIP.

Severity

Warning

Message Text

unknown state received from: library `%libName%`, state: `%state%`, ignoring.

Message Parameters

Name	Type
libName	String
state	sInt

rip.event.reqFromRmUknown

Description

No description is available.

Remedy

internal error. report problem.

Severity

Warning

Message Text

Unknown Msg type received from RtMgr `%reqCode%`. ignored.

Message Parameters

Name	Type
reqCode	uInt

rip.event.polBindErrSysImport

Description

No description is available.

Remedy

Internal error: report. Operation can continue, but without the requested policy in place.

Severity

Error

Message Text

Bind request for system import policy: `%policyName%` failed

Message Parameters

Name	Type
policyName	String

rip.event.plcyCbNoNameErr

Description

The RIP policy manager call back routine did not find required policy name. Internal error

Remedy

report problem.

Severity

Error

Message Text

Policy Callback: Policy Name is null/invalid

rip.event.pmRegErr

Description

An internal error has prevented RIP from initializing its Policy Manager module. This may cause policies pertaining to RIP to not be enforced

Remedy

disable and enable rip. If problem persists reboot system

Severity

Error

Message Text

PM Client Registration unsuccessful status `%status%`

Message Parameters

Name	Type
status	uInt

rip.event.pmReregErr

Description

An internal error has prevented RIP from initializing its Policy Manager module. This may cause policies pertaining to RIP to not be enforced

Remedy

disable and enable rip. If problem persists reboot system

Severity

Error

Message Text

PM Client Re-registration unsuccessful status `%status%`

Message Parameters

Name	Type
status	uInt

rip.event.pmMsgErr

Description

internal error

Remedy

report problem, continue operation.

Severity

Error

Message Text

Unknown msg type rx: `%msgType%` from Policy Mgr, ignored

Message Parameters

Name	Type
msgType	uInt

rip.event.pmMsgUsrErr

Description

internal error

Remedy

report problem, continue operation.

Severity

Error

Message Text

Not plausible user data rx: `%msgType%` from Policy Mgr, ignored

Message Parameters

Name	Type
msgType	uInt

rip.event.polBindErr

Description

No description is available.

Remedy

Internal error: report. Operation can continue, but without the requested policy in place.

Severity

Error

Message Text

Policy Mgr bind request for policy: `%policyName%` failed

Message Parameters

Name	Type
policyName	String

rip.event.nonRipRtLeaked

Description

there is an implausible route in the RIP routing table present.

Remedy

no quick remedy possible. It could be a late symptom of an earlier error. reportproblem.

Severity

Warning

Message Text

ripSupply: Non Default Non Rip route has been leaked

rip.event.polUnBindErr

Description

No description is available.

Remedy

Internal error: report. Operation can continue, but without the requested policy in place.

Severity

Error

Message Text

Policy Mgr unbind request for policy: `%policyName%` failed

Message Parameters

Name	Type
policyName	String

rip.event.polUnBindHandleErr

Description

RIP wants to unbind a policy, but the policy handle value is invalid, request ignored.

Remedy

Internal error: report. Operation can continue, but keeping the currrent policy in place.

Severity

Error

Message Text

cannot unbind, policy: `%policyName%` has an invalid handle: `%handle%`

Message Parameters

Name	Type
policyName	String
handle	uInt32

rip.event.cliTimeOut

Description

No description is available.

Remedy

Internal error: report. Operation may be possible, but without the requested policy in place.

Severity

Error

Message Text

timed out waiting for response to bind request for policy: `%policyName%`

Message Parameters

Name	Type
policyName	String

rip.event.rxAsyncRespLate

Description

received a positive reponse to a policy bind request, but too late: the request context has been already deleted, therefore ignoring the late response. The sytem might be under stress and slow.

Remedy

repeat policy bind request.operation might be possible if processing load reduced.if problem persist, please report.

Severity

Error

Message Text

rx late response to a policy: `%policyName%` bind request

Message Parameters

Name	Type
policyName	String

rip.event.pmRereg

Description

second registration with Policy mgr server.system works as expected, but there was a restart of Policy Mgr or RIP.

Remedy

system ok, no action needed.

Severity

Notice

Message Text

PM Client successfully re-registered

rip.event.getAttrErr

Description

the policy mgr client could not provide policy attributes: error in the policy file or internal system error.

Remedy

review and correct the policy file. If problem persists, report it. operation might be possible without using the failed policy.

Severity

Error

Message Text

Get attribute for policy `%policyName%` on vlan: `%vlanName%` failed.

Message Parameters

Name	Type
policyName	String
vlanName	String

rip.event.pmEvalErr

Description

evaluation of specified policy failed in the routine "caller".

Remedy

Probably an error in the policy file. Review and correct policy file.

Severity

Error

Message Text

`%caller%`: pmEvaluate failed for policy: `%policyName%`, err: `%errCode%`

Message Parameters

Name	Type
caller	String
policyName	String
errCode	uInt

rip.event.policyFilter

Description

applied policy filtered a route.

Remedy

this was a required action. If not, please unbind the policy.

Severity

Info

Message Text

`%caller%`: policy: `%policyName%` does not permit `%direction%` route: `%addr%` on interface: `%interfaceName%`

Message Parameters

Name	Type
caller	String
policyName	String
direction	String
addr	IP
interfaceName	String

rip.event.pmHandleErr

Description

RIP policy mgr call back routine received a policy bind confirmation for an unknown handle.

Remedy

internal system error, report problem.

Severity

Warning

Message Text

`%caller%` received policy mgr handle: 0x`%pmHandle%`, which is not available in rip cli context

Message Parameters

Name	Type
caller	String
pmHandle	xInt32

rip.event.ifShutDown

Description

the inteface does not accept any route updates and all routes learned through this interface have been deleted from the RIP routing table.

Remedy

add more memory, increase the interface shut down priority.

Severity

Warning

Message Text

interface: `%vlanName%` shut down. low on memory, zone: `%memUsageZone%`, interface shut down priority: `%intShutDownPrio%`

Message Parameters

Name	Type
vlanName	String
memUsageZone	uInt
intShutDownPrio	uInt

rip.event.redistDeny

Description

Request to redistribute the indicated protocol (e.g. BGP) has been denied, because the system is running low on memory.

Remedy

add more memory or reconfigure the system to reduce memory consumption.

Severity

Warning

Message Text

redistribution of protocol: `%protoName%` not permitted. low on memory, zone: `%memUsageZone%`

Message Parameters

Name	Type
protoName	String
memUsageZone	uInt

rip.event.ifUp

Description

the inteface accepts new route updates and installes all routes learned through this interface in the RIP routing table.

Remedy

This is an expected event. increase/decrease the interface shut down priority are feasible actions.

Severity

Warning

Message Text

interface: `%vlanName%` up again. recovering from low on memory, current zone: `%memUsageZone%`, interface shut down priority: `%intShutDownPrio%`

Message Parameters

Name	Type
vlanName	String
memUsageZone	uInt
intShutDownPrio	uInt

rip.event.addVlanDeny

Description

Request to enable the indicated vlan as active RIP interface has been denied, because the system is running low on memory.

Remedy

add more memory or reconfigure the system to reduce memory consumption.

Severity

Warning

Message Text

adding vlan: `%vlanName%` not permitted. low on memory, zone: `%memUsageZone%`

Message Parameters

Name	Type
vlanName	String
memUsageZone	uInt

rip.event.redistShutDown

Description

Redistribution of the indicated protocol (e.g. BGP) has been shut down (and the related routes removed from the RIP routing table), because the system is running low on memory.

Remedy

add more memory or reconfigure the system to reduce memory consumption.

Severity

Warning

Message Text

redistribution of protocol: `%protoName%` shut down. low on memory, zone: `%memUsageZone%`, protocok priority: `%protocolPriority%`

Message Parameters

Name	Type
protoName	String
memUsageZone	uInt
protocolPriority	uInt

rip.event.redistUp

Description

Redistribution of the indicated protocol (e.g. BGP) has been activated, because the system has more memory available.

Remedy

expected event.

Severity

Info

Message Text

redistribution of protocol: `%protoName%` up, more memory available: `%memUsageZone%`, protocol priority: `%protocolPriority%`

Message Parameters

Name	Type
protoName	String
memUsageZone	uInt
protocolPriority	uInt

rip.event.shutDown

Description

RIP disabled because lack of memory. Manual intervention required.

Remedy

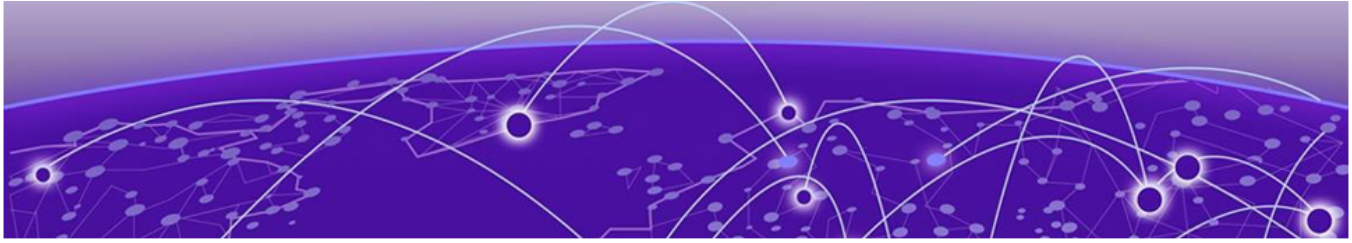
add more memory or reconfigure the system to reduce memory consumption, then enable RIP.

Severity

Error

Message Text

RIP has been shut down (disabled), because the system is dangerously low on memory, zone RED.



rip.inUpdt Messages

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rip.inUpdt.rtAddFail on page 4466
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rip.inUpdt.addRtToRm

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

add route to rtmgr dst: `%dst%` masklen: `%masklen%` gw: `%gateway%` cost: `%metric%`

Message Parameters

Name	Type
dst	IP
masklen	IPmasklen
gateway	IP
metric	uInt

rip.inUpdt.delRtToRm

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

delete route to rtmgr dst: `%dst%` masklen: `%mask%` gw: `%gateway%` cost: `%metric%`

Message Parameters

Name	Type
dst	IP
mask	IPmasklen
gateway	IP
metric	uInt

rip.inUpdt.rtAddFail

Description

An internal error has prevented RIP from adding a route to the Forwarding Information Base. This will cause inconsistencies in routing

Remedy

Try to disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

add route request to rtmgr failed dst: `%dst%` masklen: `%masklen%` rtmgr err: `%rtmgrErr%` gwy: `%gwy%`

Message Parameters

Name	Type
dst	IP
masklen	IP
rtmgrErr	uInt
gwy	IP

rip.inUpdt.rtDelFail

Description

An internal error has prevented RIP from removing a route from the Forwarding Information Base. This will cause inconsistencies in routing

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

delete route request to rtmgr failed dst: `%dst%` masklen: `%masklen%` rtmgr err: `%rtmgrErr%` gwy: `%gwy%`

Message Parameters

Name	Type
dst	IP
masklen	IP
rtmgrErr	uInt
gwy	IP

rip.inUpdt.unknownReqCode

Description

Internal error, ignoring unknown request code received from RTMGR

Remedy

report problem, code fix needed

Severity

Debug-Data

Message Text

ripRtrequest: Ignoring unknown request code: `%code%`

Message Parameters

Name	Type
code	uInt

rip.inUpdt.chgRt

Description

Interface route to a destination via a gateway had changed as a result of an update received from a rip neighbour

Remedy

There is no remedy. This is just an informational message

Severity

Info

Message Text

Changing interface route to dst: `%dst%` gwy: `%gwy%`

Message Parameters

Name	Type
dst	IP
gwy	IP

rip.inUpdt.updtRtFromRmDrop

Description

rip received null route from RTMGR and ignored

Remedy

There is no remedy. This is just an informational message

Severity

Info

Message Text

rx null route from RTMGR in ripUpdateKernelRt, ignored

rip.inUpdt.addRtFromRm

Description

tracing route redistributed by RTMGR

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

ripUpdateKernelRt: `%cmd%` Route `%dst%`/`%masklen%` gw: `%gwy%` origin: `%protoOrigin%` cost: `%metric%`

Message Parameters

Name	Type
cmd	String
dst	IP
masklen	uInt
gwy	IP
protoOrigin	String
metric	uInt

rip.inUpdt.delRtFromRm

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

RTMGR requested to delete route `%dst%` masklen: `%masklen%`

Message Parameters

Name	Type
dst	IP
masklen	IPmasklen

rip.inUpdt.delRtFromRmNotFound

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

RTMGR requested to delete route `%dst%` masklen: `%masklen%`, which was not found in RIP route table

Message Parameters

Name	Type
dst	IP
masklen	IPmasklen

rip.inUpdt.rtNotFound

Description

A new route has been received from RIP peer.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

route not found in RIP routing table: dst `%dst%` mask `%mask%` origin `%origin%`

Message Parameters

Name	Type
dst	IP
mask	IP
origin	String

rip.inUpdt.ripRTwalk

Description

trace while traversing the rip routing table in search of a matching route

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

rte `%routePtr%`, rte->rt_forw `%forw%`, rte->rt_back `%backw%`

Message Parameters

Name	Type
routePtr	Ptr
forw	Ptr
backw	Ptr

rip.inUpdt.rtFound

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

route found in RIP routing table: dst `%dst%` mask `%mask%` gwy `%gwy%` origin `%origin%` metric `%metric%`

Message Parameters

Name	Type
dst	IP
mask	IP
gwy	IP
origin	String
metric	uInt

rip.inUpdt.hash

Description

tracing the hash bucket calculation.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

function: `%caller%` route searched: `%dst%` nethash: `%hashBucket%` net rh: `%rh%`

Message Parameters

Name	Type
caller	String
dst	IP
hashBucket	uInt
rh	Ptr

rip.inUpdt.addRt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Add Route to RIP: dst `%dst%` mask `%mask%` gw: `%gwy%` origin: `%protoOrigin%` cost: `%metric%`

Message Parameters

Name	Type
dst	IP
mask	IP
gwy	IP
protoOrigin	String
metric	uInt

rip.inUpdt.delRt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Delete Route from RIP: dst %dst% mask %mask% gw: %gwy% origin: %protoOrigin% cost: %metric%

Message Parameters

Name	Type
dst	IP
mask	IP
gwy	IP
protoOrigin	String
metric	uInt

rip.inUpdt.updtRtFromRm

Description

tracing route redistributed by RTMGR

Remedy

No remedy is available.

Severity

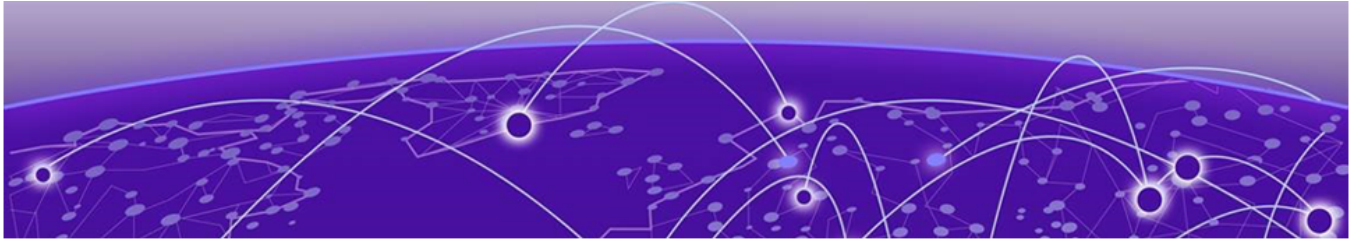
Debug-Summary

Message Text

%cmd%: Route %dst%/%masklen% gw: %gwy% origin: %protoOrigin% cost: %metric%

Message Parameters

Name	Type
cmd	String
dst	IP
masklen	uInt
gwy	IP
protoOrigin	String
metric	uInt



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rip.msgs.pktDump

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

RIP Packet HexDump

Message Parameters

Name	Type
msgp	Buf-ptr
len	Buf-len

rip.msgs.txRsp

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Sending RESPONSE to `%dst%` on vlan `%vlanName%` RIPv`%ver%`

Message Parameters

Name	Type
dst	IP
vlanName	String
ver	uInt

rip.msgs.txReq

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Sending REQUEST to `%dst%` on vlan `%vlanName%` RIPv`%ver%`

Message Parameters

Name	Type
dst	IP
vlanName	String
ver	uInt

rip.msgs.rxDropPktNoIf

Description

No description is available.

Remedy

analyse why such packets have been received

Severity

Notice

Message Text

dropping packet from sender: `%src%`, no matching rip run time interface exists

Message Parameters

Name	Type
src	IP

rip.msgs.rxDropPktWrongSrc

Description

packet received on valid vlan, but the source ip address does not match the subnet: possible DOS attack or misconfiguration.

Remedy

analyse why such packets have been received. Change configuration or install filters.

Severity

Notice

Message Text

dropping packet from sender: `%src%`, who does not belong to the receiving vlan `%vlanName%`

Message Parameters

Name	Type
src	IP
vlanName	String

rip.msgs.rxUnsupportedFamily

Description

dropping packet received on valid vlan, because the address family (AFI) of the source ip address does not equal the only supported AF_INET.

Remedy

analyse why such packets have been received. Change configuration or install filters.

Severity

Notice

Message Text

dropping packet from : `%src%`, receiving vlan `%vlanName%`, cmd: `%cmd%`, unsupported family: `%family%`

Message Parameters

Name	Type
src	IP
vlanName	String
cmd	uInt
family	uInt

rip.msgs.rxV1Del

Description

rip version 1 packet received on interface not configured to accept rip version 1.

Remedy

reconfigure interface

Severity

Notice

Message Text

RIP version 1 packet discarded from `%src%`, cmd: `%cmd%`, on VLAN `%vlanName%`

Message Parameters

Name	Type
src	IP
cmd	uInt
vlanName	String

rip.msgs.rxV1DelNonZero

Description

Incorrect rip version 1 packet received and dropped

Remedy

No remedy is available.

Severity

Notice

Message Text

RIPv1 discarded from `%src%`, cmd: `%cmd%`, on VLAN `%vlanName%` - nonzero value

Message Parameters

Name	Type
src	IP
cmd	uInt
vlanName	String

rip.msgs.rxV1DelAuth

Description

Rip version 1 packet including authetication received and dropped

Remedy

No remedy is available.

Severity

Notice

Message Text

RIPv1 discarded from `%src%`, cmd: `%cmd%`, on VLAN `%vlanName%` - contains Authentication.

Message Parameters

Name	Type
src	IP
cmd	uInt
vlanName	String

rip.msgs.rxV0Del

Description

Rip version 0 packet received and dropped

Remedy

No remedy is available.

Severity

Notice

Message Text

RIP version 0 packet discarded from `%src%`, cmd: `%cmd%`, on VLAN `%vlanName%`.

Message Parameters

Name	Type
src	IP
cmd	uInt
vlanName	String

rip.msgs.txErrRsp

Description

Unable to send response to a destination on an interface. This is most likely due to the fact that the interface has gone down and we havent processed that notificaiton yet

Remedy

None

Severity

Debug-Verbose

Message Text

ripSendRsp: Code `%err%` sending rsp to `%dst%` on interface `%ifName%`

Message Parameters

Name	Type
ifName	String
dst	IP
err	sInt

rip.msgs.txErrReq

Description

Unable to send request to a destination on an interface. This is most likely due to the fact that the interface has gone down and we havent processed that notificaiton yet

Remedy

None

Severity

Debug-Verbose

Message Text

ripSendReq: Code `%err%` sending req to `%dst%` on interface `%ifName%`

Message Parameters

Name	Type
ifName	String
dst	IP
err	sInt

rip.msgs.txErrMsg

Description

Unable to send message to a destination on an interface. This is most likely due to the fact that the interface has gone down and we havent processed that notificaiton yet

Remedy

None

Severity

Debug-Verbose

Message Text

ripSupply: Code `%err%` sending msg to `%dst%` on interface `%ifName%`

Message Parameters

Name	Type
ifName	String
dst	IP
err	sInt

rip.msgs.rxV2Del

Description

rip version 2 packet received on interface not configured to accept rip version 2.

Remedy

reconfigure interface

Severity

Notice

Message Text

RIP version 2 discarded from `%src%`, cmd: `%cmd%`, on VLAN `%vlanName%`

Message Parameters

Name	Type
src	IP
cmd	uInt
vlanName	String

rip.msgs.rxV2DelAuthFail

Description

rip version 2 packet received on interface but failed authentication.

Remedy

reconfigure authentication or monitor against intrusion attempts

Severity

Notice

Message Text

RIP version 2 packet discarded from `%src%`, cmd: `%cmd%`, on VLAN `%vlanName%`, authentication failure

Message Parameters

Name	Type
src	IP
cmd	uInt
vlanName	String

rip.msgs.rxReq

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Rcvd Req from `%src%`, len `%size%`, on VLAN `%vlanName%` RIPv`%ver%`

Message Parameters

Name	Type
src	IP
size	uInt
vlanName	String
ver	uInt

rip.msgs.rxReqErr

Description

rip REQUEST packet received with incorrect packet size.

Remedy

No remedy is available.

Severity

Info

Message Text

ripInput: Bad REQ pkt size from `%src%` rx on VLAN `%vlanName%`

Message Parameters

Name	Type
src	IP
vlanName	String

rip.msgs.rxReqErrVersion

Description

rip REQUEST packet received with incorrect rip version.

Remedy

reconfigure rip version for the receving or sending interface

Severity

Info

Message Text

ripInput: REQ pkt from `%src%`, version `%version%`

Message Parameters

Name	Type
src	IP
version	uInt

rip.msgs.rxReqMBZNotZero

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

ripInput: REQ pkt from `%src%` MBZ field of RTE not zero

Message Parameters

Name	Type
src	IP

rip.msgs.rxRes

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Rcvd Response from `%src%`, len `%size%`, on VLAN `%vlanName%` RIPv`%ver%`

Message Parameters

Name	Type
src	IP
size	uInt
vlanName	String
ver	uInt

rip.msgs.rxResInvPort

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Rcvd RSP from invalid port `%port%`, src `%src%`

Message Parameters

Name	Type
src	IP
port	uInt

rip.msgs.rxBadRspSize

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

ripInput: Bad RSP pkt size from `%src%`

Message Parameters

Name	Type
src	IP

rip.msgs.rxRspMBZNotZero

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

ripInput: RSP pkt from `%src%` MBZ field of RTE not zero

Message Parameters

Name	Type
src	IP

rip.msgs.rxInvDst

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

invalid dest `%dst%` of route from `%src%` (af `%family%`), packet dropped

Message Parameters

Name	Type
dst	IP
src	IP
family	uInt

rip.msgs.rxNonLocNextHop

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

non-local NextHop `%nextHop%` in route from `%src%`

Message Parameters

Name	Type
nextHop	IP
src	IP

rip.msgs.rxMetricErr

Description

received rip cost (metric) out of range of 1..16

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

rx bad cost (`%cost%`) from `%src%`

Message Parameters

Name	Type
cost	uInt
src	IP

rip.msgs.rxTraceOn

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Rcvd traceon from `%src%`, len `%size%`, on VLAN `%vlanName%` RIPv`%ver%`

Message Parameters

Name	Type
src	IP
size	uInt
vlanName	String
ver	uInt

rip.msgs.rxTraceOff

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Rcvd traceoff from `%src%`, len `%size%`, on VLAN `%vlanName%` RIPv`%ver%`

Message Parameters

Name	Type
src	IP
size	uInt
vlanName	String
ver	uInt

rip.msgs.rxDropPktSecIf

Description

Network topology misconfiguration. We should never receive any routing protocol control packet on secondary interface. Looks like a router is hanging from the secondary subnet (stub network).

Remedy

analyse why such packets have been received. Change network configuration or install filters.

Severity

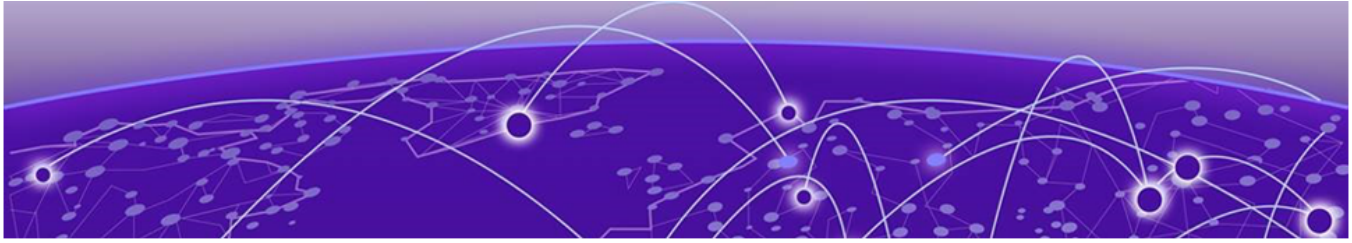
Notice

Message Text

RIP packet rxed on secondary interface `%dest%` of Vlan `%vlanName%`. Dropped

Message Parameters

Name	Type
dest	IP
vlanName	String



rip.outUpdt Messages

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rip.outUpdt.delayTrigUpdt

Description

An update was sent recently so delaying the next triggered update

Remedy

There is no remedy. This is just an informational message

Severity

Info

Message Text

Delaying triggered updates

rip.outUpdt.supressTrigUpdt

Description

An update was sent recently so delaying the next triggered update by above specified period of time

Remedy

There is no remedy. This is just an informational message

Severity

Info

Message Text

`%caller%`: Supressing triggered updates for `%period%` sec

Message Parameters

Name	Type
caller	String
period	uInt

rip.outUpdt.sendTrigUpdt

Description

A previous update which was delayed is now being sent

Remedy

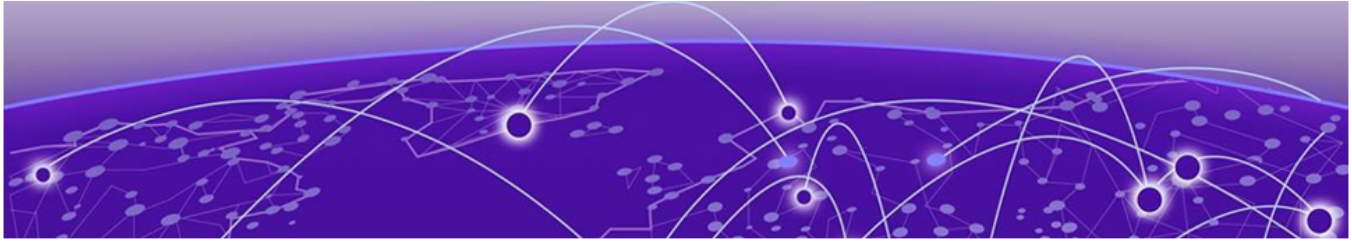
There is no remedy. This is just an informational message

Severity

Info

Message Text

Sending Delayed Triggered Update



rip.sys Messages

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rip.sys.sockGetErr

Description

An internal error has prevented RIP from initializing its communications sockets.

Remedy

RIP will fail to start under these conditions and may need to be restarted. The switch may need to be rebooted.

Severity

Critical

Message Text

Unable to get socket

rip.sys.sockOpPktErr

Description

A system call failed

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

Error `%err%` while requesting IP_PKTINFO socket option

Message Parameters

Name	Type
err	uInt

rip.sys.sockOpBcstErr

Description

A system call failed

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

ripGetSocket: setsockopt (SO_BROADCAST) `%err%`

Message Parameters

Name	Type
err	uInt

rip.sys.sockOpTosErr

Description

A system call failed

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

ripGetSocket: setsockopt(SO_IPTOS) `%err%`

Message Parameters

Name	Type
err	uInt

rip.sys.sockOpRcvbufErr

Description

A system call failed

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

ripGetSocket: setsockopt(SO_RCVBUF) `%err%`

Message Parameters

Name	Type
err	uInt

rip.sys.sockBindErr

Description

A system call failed

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

ripGetSocket: bind error `%err%`

Message Parameters

Name	Type
err	uInt

rip.sys.sockMcLoopErr

Description

A system call failed

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

ripGetSocket: setsockopt(IP_MULTICAST_LOOP) error `%err%`

Message Parameters

Name	Type
err	uInt

rip.sys.sockOpVrIdErr

Description

A system call failed

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

ripGetSocket: SO_BINDTODEVICE error: `%err%` vrId: `%vrId%`

Message Parameters

Name	Type
err	uInt
vrId	uInt

rip.sys.sockOpFIONBIOErr

Description

A system call failed

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

ripGetSocket: ioctl(FIONBIO) error `%err%`

Message Parameters

Name	Type
err	uInt

rip.sys.sendErr

Description

system call sendmsg returned error

Remedy

disable and enable rip. If problem persists reboot system

Severity

Notice

Message Text

system call sendmsg failed: vlan:`%vlan%` src: `%src%` dst: `%dst%` err: `%err%` socket: `%sock%`

Message Parameters

Name	Type
vlan	String
src	IP
dst	IP
err	String
sock	sInt

rip.sys.recvErr

Description

system call recvmsg returned error

Remedy

disable and enable rip. If problem persists reboot system

Severity

Error

Message Text

system call recvmsg failed: err: `%err%` socket: `%sock%`

Message Parameters

Name	Type
err	sInt
sock	sInt

rip.sys.exTimerInitErr

Description

during start up RIP could not initialize timer

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

Unable to initialize rip Timer

rip.sys.joinMCGroupErr

Description

An internal error has prevented RIP from initializing its communications sockets. This will cause RIP to not receive RIPv2 messages

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

`%caller%`: Unable to join rip multicast `%addr%` group on `%vlanName%` ifIdx: `%ifIndex%` err: `%err%`

Message Parameters

Name	Type
addr	IP
vlanName	String
ifIndex	uInt
err	uInt
caller	String

rip.sys.leaveMCGroupErr

Description

A system call failed

Remedy

disable and enable rip. If problem persists reboot system

Severity

Error

Message Text

`%caller%`: Unable to leave rip multicast `%addr%` group on `%vlanName%` ifIdx: `%ifIndex%` err: `%err%`

Message Parameters

Name	Type
addr	IP
vlanName	String
ifIndex	uInt
err	uInt
caller	String

rip.sys.recvErrSenderLen

Description

system call recvmsg returned invalid length of ipaddress of the sender

Remedy

report problem, if problem persistent reboot system

Severity

Error

Message Text

ripProcess: Invalid length for sender sockaddr `%len%`

Message Parameters

Name	Type
len	uInt

rip.sys.sockCreateErr

Description

A system call failed

Remedy

disable and enable rip. If problem persists reboot system

Severity

Error

Message Text

Error `%err%` while creating socket

Message Parameters

Name	Type
err	uInt

rip.sys.sockMcIfErr

Description

system call to set socket multicast option returned error

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

setsockopt IPPROTO_IP, IP_MULTICAST_IF error `%err%` interface `%vlanName%`

Message Parameters

Name	Type
err	uInt
vlanName	String

rip.sys.threadUp

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

RIP thread: `%name%` came up, threadId: `%threadId%`, processId: `%processid%`

Message Parameters

Name	Type
name	String
threadId	xInt32
processid	xInt32

rip.sys.selectErr

Description

system call "select" returned an error, calling select again (receive loop)

Remedy

if problem persist, report problem and rebeoot

Severity

Warning

Message Text

select return error `%err%`

Message Parameters

Name	Type
err	uInt

rip.sys.lockInitErr

Description

system call "pthread_rwlock_init" returned error

Remedy

disable and enable rip. If problem persists reboot system

Severity

Critical

Message Text

Error Initing lock: `%lock%` err:`%err%`

Message Parameters

Name	Type
lock	String
err	uInt

rip.sys.rtMgrRegErr

Description

cannot register with RTMGR

Remedy

report problem, reboot

Severity

Critical

Message Text

rtMgrRegister returned error: `%err%`

Message Parameters

Name	Type
err	sInt

rip.sys.rtMgrRegNotifErr

Description

cannot register with RTMGR

Remedy

report problem, reboot

Severity

Critical

Message Text

rtMgrRegisterNotif returned error: `%err%`

Message Parameters

Name	Type
err	sInt

rip.sys.threadCreateErr

Description

system call pthread_create returned error

Remedy

report problem, reboot

Severity

Critical

Message Text

could not create `%threadName%` thread, error: `%err%`

Message Parameters

Name	Type
threadName	String
err	sInt

rip.sys.sigactionErr

Description

No description is available.

Remedy

report problem, if problem persistent reboot system

Severity

Critical

Message Text

system call sigaction failed: err: `%err%`

Message Parameters

Name	Type
err	sInt

rip.sys.noMemory

Description

memory manager call could not allocate requested memory

Remedy

This indicates that the switch is running low on memory resources. Reducing the size or complexity of the switch configuration may alleviate this issue. The rip process will need to be restarted. If the problem persists capture "show tech" output and contact customer support.

Severity

Critical

Message Text

`%caller%` could not allocate `%size%` bytes of memory

Message Parameters

Name	Type
caller	String
size	uInt

rip.sys.freeMemErr

Description

memory manager call could not free requested memory. Process may experience memory corurption or memory leak

Remedy

If rip restarts or process memory consumption keeps increasing, report problem

Severity

Critical

Message Text

routine `%caller%`, line `%line%`, could not free memmory addreess `%ptr%`

Message Parameters

Name	Type
caller	String
line	uInt
err	uInt
ptr	Ptr

rip.sys.partialSend

Description

Non-blocking socket could not send out the entire packet

Remedy

Handle scenario by sending out the remaining packet

Severity

Notice

Message Text

Sent `%sent%` bytes out of a total of `%size%` for socket=`%sock%` dst=`%dst%`

Message Parameters

Name	Type
sent	sInt
size	sInt
sock	sInt
dst	IP

rip.sys.sockOpReuseAddrErr

Description

A system call failed. RIP may not be able to transmit or receive messages

Remedy

disable rip, wait a few minutes and enable rip again. If problem persists reboot system

Severity

Critical

Message Text

ripGetSocket: SO_REUSEADDR error: `%err%`

Message Parameters

Name	Type
err	uInt

rip.sys.LockStateChg

Description

Lock was released or acquired by a thread

Remedy

None. Debug purpose only

Severity

Debug-Verbose

Message Text

Lock `%act%`: Caller `%ptr%`, Thread `%thd%`

Message Parameters

Name	Type
act	String
ptr	Ptr
thd	String

rip.sys.LockBusy

Description

Thread is trying to acquire a lock

Remedy

None. Debug purpose only

Severity

Debug-Verbose

Message Text

Lock Busy: Caller `%ptr%`, Current: `%newthread%`, PCaller: `%pc%` Prev: `%oldthread%`, duration: `%dur%`

Message Parameters

Name	Type
ptr	Ptr
newthread	String
pc	Ptr
oldthread	String
dur	uInt64

rip.sys.LockEvent

Description

Thread couldnot acquire a lock. It will retry

Remedy

None. Debug purpose only

Severity

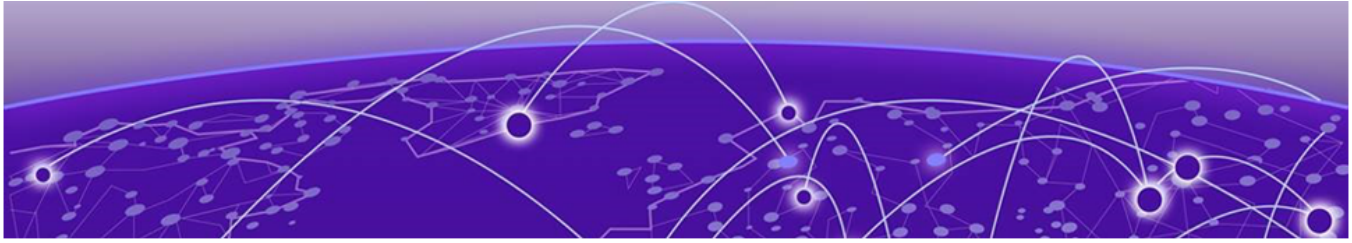
Debug-Verbose

Message Text

Lock `%act%` Event: Caller `%ptr%`, Current: `%newthread%`, PCaller: `%pc%`, Prev: `%oldthread%`, retCode: `%retCode%`

Message Parameters

Name	Type
act	String
ptr	Ptr
newthread	String
pc	Ptr
oldthread	String
retCode	sInt



ripng Messages

ripng.StrtTaskOK on page 4515

ripng.StrtTaskOK

Description

Protocol Independent Multicast Messages.

Remedy

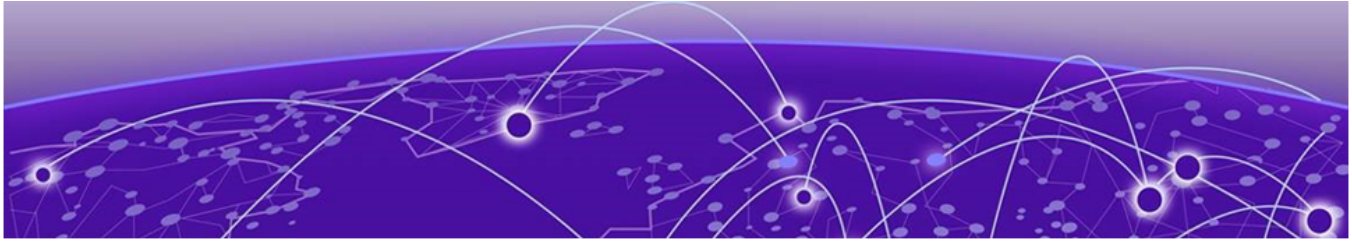
No remedy. Informational message.

Severity

Info

Message Text

RIPng Started successfully.



ripng.debug Messages

ripng.debug.CreatSockFail on page 4516
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ripng.debug.SetIOFail on page 4518
ripng.debug.RegRtMgrFail on page 4518
ripng.debug.MemAllocFail on page 4518
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ripng.debug.RtNotifNoRout on page 4520
ripng.debug.RtNotifUpdt on page 4520
ripng.debug.RtNotifUpdtFail on page 4521
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ripng.debug.BestRtFlagFail on page 4523
ripng.debug.RpFindDump on page 4523

ripng.debug.CreatSockFail

Description

Internal error in RIPng udp socket initialization.

Remedy

Contact tech support.

Severity

Error

Message Text

Error in creating ripngSocket init. Code `%num0%`

Message Parameters

Name	Type
num0	sInt

ripng.debug.SetSockFail

Description

Internal error in RIPng udp socket initialization.

Remedy

Contact tech support.

Severity

Error

Message Text

Set sock option fail. Code `%num0%`

Message Parameters

Name	Type
num0	sInt

ripng.debug.BindSockFail

Description

Internal error in RIPng udp socket initialization.

Remedy

Contact tech support.

Severity

Error

Message Text

Socket bind fail.

ripng.debug.SetIOFail

Description

Internal error in RIPng udp socket initialization.

Remedy

Contact tech support.

Severity

Error

Message Text

Socket set FIONBIO fail.

ripng.debug.RegRtMgrFail

Description

Internal error in RIPng registering with route manager initialization.

Remedy

Contact tech support.

Severity

Error

Message Text

Failed to register with router manager..

ripng.debug.MemAllocFail

Description

Internal error in RIPng. If it is temporary memory outage it should recover, otherwise, there is not enough memory in the system.

Remedy

Disable and enable ripng. If problem persists, reconfigure the system to reduce memory consumption or reboot system

Severity

Critical

Message Text

Failed to alloc memory for `%num0%` size.

Message Parameters

Name	Type
num0	uInt32

ripng.debug.ProcRtNotif

Description

Debug message.

Remedy

Debug message.

Severity

Debug-Verbose

Message Text

Processing notification for route `%rte%`/`%len%` of origin `%or%` from `%rte2%`.

Message Parameters

Name	Type
rte	IPv6
len	sInt
or	sInt
rte2	IPv6

ripng.debug.RtNotifNoRout

Description

Debug message.

Remedy

Debug message.

Severity

Debug-Verbose

Message Text

Route not found while processing notification for route `%rte%`/`%len%`.

Message Parameters

Name	Type
rte	IPv6
len	sInt

ripng.debug.RtNotifUpdt

Description

Debug message.

Remedy

Debug message.

Severity

Debug-Data

Message Text

Updating route in ripng db after route notification from rtMgr. `%rte%`/`%len%`, origin `%or%`

Message Parameters

Name	Type
rte	IPv6
len	sInt
or	sInt

ripng.debug.RtNotifUpdtFail

Description

Debug message.

Remedy

Debug message.

Severity

Notice

Message Text

Updating route in ripng db after route notification from rtMgr. `%rte%`/`%len%`, origin `%or%`

Message Parameters

Name	Type
rte	IPv6
len	sInt
or	sInt

ripng.debug.RtNotifPathLkupFail

Description

Debug message.

Remedy

Debug message.

Severity

Notice

Message Text

Route path could not be found while processing update, `%rte%/%len%`, from `%rte2%`

Message Parameters

Name	Type
rte	IPv6
len	sInt
rte2	IPv6

ripng.debug.RtNotifCmpMetric

Description

Debug message.

Remedy

Debug message.

Severity

Debug-Data

Message Text

Route path and route metric comparison for, `%rte%/%len%`, `%le1%`, `%le2%`

Message Parameters

Name	Type
rte	IPv6
len	sInt
le1	sInt
le2	sInt

ripng.debug.BestRtFlagFail

Description

Debug message.

Remedy

Debug message.

Severity

Debug-Data

Message Text

Route path for `%rte%`/`%len%`, from `%rte2%` could not be marked best as `%st1%`

Message Parameters

Name	Type
rte	IPv6
len	sInt
rte2	IPv6
st1	String

ripng.debug.RpFindDump

Description

Debug message.

Remedy

Debug message.

Severity

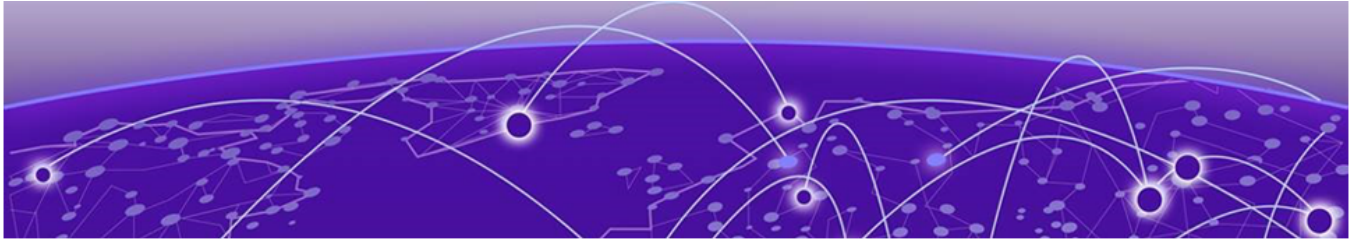
Debug-Data

Message Text

Route path for `%rte%`/`%len%`, from/gw `%rte2%`/`%rte3%`.

Message Parameters

Name	Type
rte	IPv6
len	sInt
rte2	IPv6
rte3	IPv6



ripng.external Messages

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ripng.external.ChgVlanStat on page 4527
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ripng.external.DelIpVlan on page 4529
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ripng.external.CreatVrFail on page 4530
ripng.external.ChgIpFwdStateVlan on page 4530
ripng.external.ChgVlanName on page 4531
ripng.external.ChgVlanNameFail on page 4531

ripng.external.CreatIpVlan

Description

Adding cache into db.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Creating IpV6 vlan, `%str%` on vrid `%num%` with index `%num2%` IPv6 addr, `%addr6%` with state `%st%`.

Message Parameters

Name	Type
str	VLAN
num	sInt
num2	sInt
addr6	IPv6
st	sInt

ripng.external.CreatIpVlanFail

Description

Adding cache into db.

Remedy

Informational message only, for debug purpose.

Severity

Error

Message Text

IPv6 vlan creation failed as there is no vlan configured by name, `%s1%` and index `%v2%`.

Message Parameters

Name	Type
s1	VLAN
v2	sInt

ripng.external.DelIPv6Addr

Description

Adding cache into db.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

IPv6 address `%addr6%` being deleted from vlan, `%s1%`.

Message Parameters

Name	Type
addr6	IPv6
s1	VLAN

ripng.external.ChgSecIPv6AddrStat

Description

Adding cache into db.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

IPv6 address `%addr6%` state changed to, `%st%`.

Message Parameters

Name	Type
vl	VLAN
addr6	IPv6
st	uInt32

ripng.external.ChgVlanStat

Description

Changingg state of vlan in internal database.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Change vlan state for vlan, `%nm%` , `%st%`.

Message Parameters

Name	Type
nm	VLAN
st	uInt32

ripng.external.ChgIpFwdState

Description

Changingg global IPv6 forwarding state .

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Change IPv6 forwarding state for VR, `%st%`.

Message Parameters

Name	Type
st	uInt32

ripng.external.DelIpVlan

Description

Deleting vlan from db.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Deleting IpV6 vlan, `%str%` with kernel index `%num%` and vlan index `%num2%` .

Message Parameters

Name	Type
str	VLAN
num	sInt
num2	sInt

ripng.external.CreatVr

Description

Creating VR in RIPNg db.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Creating VR `%vr%` with if `%num%`.

Message Parameters

Name	Type
vr	String
num	sInt

ripng.external.CreatVrFail

Description

Creating VR in RIPNg db.

Remedy

Informational message only, for debug purpose.

Severity

Critical

Message Text

Internal error for setsock option for VR `%vr%` with if `%num%`.

Message Parameters

Name	Type
vr	String
num	sInt

ripng.external.ChgIpFwdStateVlan

Description

Changing vlan's IPv6 forwarding state .

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Change IPv6 forwarding state for vlan, `%st%`.

Message Parameters

Name	Type
st	VLAN

ripng.external.ChgVlanName

Description

Changing vlan's name .

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Change vlan name from , `%st%` to `%st1%`.

Message Parameters

Name	Type
st	VLAN
st1	VLAN

ripng.external.ChgVlanNameFail

Description

Changing vlan's name .

Remedy

Informational message only, for debug purpose.

Severity

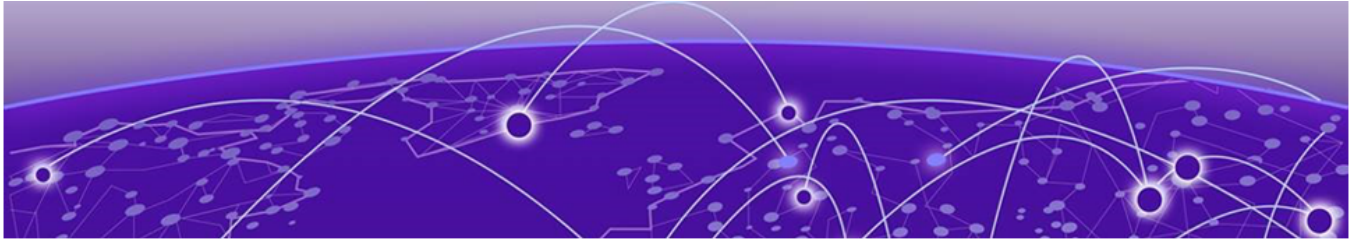
Error

Message Text

Error while changing vlan name from, `%st%` to `%st1%`.

Message Parameters

Name	Type
st	VLAN
st1	VLAN



ripng.message Messages

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ripng.message.LkupAddrFail on page 4535
ripng.message.CmpRipPortFail on page 4535
ripng.message.CmpRipSrcFail on page 4536
ripng.message.CmpRipHopLimitFail on page 4536
ripng.message.RxSrcRoutInv on page 4537
ripng.message.RxSrcRoutTagInv on page 4537
ripng.message.RxSrcRoutLenInv on page 4538
ripng.message.RxRoutNextHopInv on page 4539
ripng.message.RxRoutCostInv on page 4539
ripng.message.RxMsgIgn on page 4540
ripng.message.RxMsgDrp on page 4540
ripng.message.RxMsgAddrInv on page 4541
ripng.message.RxMsgSizInv on page 4541
ripng.message.RxMsgVerInv on page 4542
ripng.message.RxMsgFldInv on page 4542
ripng.message.RxMsgTypInv on page 4543
ripng.message.TxMsgFail on page 4543
ripng.message.RxSrcRout on page 4544
ripng.message.RxRoutPolDrop on page 4544
ripng.message.RxPathAddFail on page 4545
ripng.message.RxPathUpdtFail on page 4546
ripng.message.RxRoutAddFail on page 4546
ripng.message.SndRtMgrMsg on page 4547
ripng.message.SndRtMgrMsgFail on page 4547
ripng.message.SndRtMgrAbrt on page 4548
ripng.message.RtLkup on page 4548
ripng.message.RtPathLkup on page 4549
ripng.message.RxSrcRout2 on page 4550
ripng.message.TxRout on page 4550
ripng.message.TxFailRout on page 4551

ripng.message.ProcInMsgFail

Description

Failed to process input message as no IPv6 address is active on the vlan.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

ignoring received packet from invalid source interface. %nm%.

Message Parameters

Name	Type
nm	VLAN

ripng.message.IgnInMsgFail

Description

Failed to process input message as no IPv6 address is active on the vlan.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

ignoring received packet because we lack a unicast address for response on interface %nm%.

Message Parameters

Name	Type
nm	VLAN

ripng.message.LkupAddrFail

Description

Failed to process input message no link local address found on local interface.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

cannot respond out interface `%nm%` - no link-local found

Message Parameters

Name	Type
nm	VLAN

ripng.message.CmpRipPortFail

Description

Failed to process input message as message received from a port other than UDP port.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Ignoring received packet from invalid source port, `%port%`.

Message Parameters

Name	Type
port	uInt32

ripng.message.CmpRipSrcFail

Description

Failed to process input message as message received from non link local address.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Ignoring received packet from invalid source address `%ipa%`

Message Parameters

Name	Type
ipa	IPv6

ripng.message.CmpRipHopLimitFail

Description

Failed to process input message as message received has invalid hopcount.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Ignoring received packet with invalid hop limit, `%ln%`.

Message Parameters

Name	Type
ln	uInt32

ripng.message.RxSrcRoutInv

Description

Failed to process route as route prefix was wrong .

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Received invalid address `%ip1%` from `%ip2%`.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6

ripng.message.RxSrcRoutTagInv

Description

Failed to process route as route tag was wrong .

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Received next hop with invalid tag, `%num%` from `%ip2%`.

Message Parameters

Name	Type
num	uInt32
ip2	IPv6

ripng.message.RxSrcRoutLenInv

Description

Failed to process route as route len was wrong .

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

Received next hop with invalid prefix length `%num%` from `%ip2%`.

Message Parameters

Name	Type
num	uInt32
ip2	IPv6

ripng.message.RxRoutNextHopInv

Description

Failed to process route as route next hop was wrong .

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Received received invalid next hop `%ip1%` from `%ip2%`.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6

ripng.message.RxRoutCostInv

Description

Failed to process route as route metricwas wrong .

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Received received invalid metric `%num%` from `%ip2%`.

Message Parameters

Name	Type
num	uInt32
ip2	IPv6

ripng.message.RxMsgIgn

Description

Received RIP message not known to RIP .

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

ripng input start: received RIP packet on an interface not configured for RIP.

ripng.message.RxMsgDrp

Description

Received RIP message on an interface not known to RIP.

Remedy

Informational message only, for debug purpose.

Severity

Info

Message Text

ripng input start: received packet on non-up/-enabled if - `%str1%`.

Message Parameters

Name	Type
str1	String

ripng.message.RxMsgAddrInv

Description

Received RIP message from invalid source address .

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

ripng HandleResRte packet from `%str1%`.

Message Parameters

Name	Type
str1	String

ripng.message.RxMsgSizInv

Description

Received RIP message not known to RIP .

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Ripng read socker: packetsize not a multiple.

ripng.message.RxMsgVerInv

Description

Received RIP message not known to RIP .

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Ripng : Invalid RIPng version in the message `%num%`

Message Parameters

Name	Type
num	uInt32

ripng.message.RxMsgFldInv

Description

Received RIP message with invalid field.

Remedy

Informational message only, for debug purpose.

Severity

Warning

Message Text

Invalid RIPng field

ripng.message.RxMsgTypInv

Description

Received RIP message with invalid command.

Remedy

Informational message only, for debug purpose.

Severity

Notice

Message Text

Ignoring received invalid command type, `%num%`.

Message Parameters

Name	Type
num	uInt32

ripng.message.TxMsgFail

Description

Received RIP message with invalid command.

Remedy

Informational message only, for debug purpose.

Severity

Notice

Message Text

RIPng message transmit failed on vlan `%vl1%`. Error `%num%` , error string, `%str0%` .

Message Parameters

Name	Type
vl1	VLAN
num	sInt
str0	String

ripng.message.RxSrcRout

Description

Received route update from neighbor .

Remedy

Informational message only, for debug purpose.

Severity

Debug-Verbose

Message Text

Received route `%ip1%`/`%mask_len%` from `%ip3%` in vlan `%vlanName%` with metric `%num%`.

Message Parameters

Name	Type
ip1	IPv6
mask_len	sInt
ip3	IPv6
vlanName	VLAN
num	sInt

ripng.message.RxRoutPolDrop

Description

Received route update from neighbor dropped due to policy configuration.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Received route `%ip1%` from `%ip2%` with metric `%num%` dropped due to import policy on vlan `%nm%`.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6
num	sInt
nm	VLAN

ripng.message.RxPathAddFail

Description

Received route update from neighbor could not be added.

Remedy

Contact tech support.

Severity

Warning

Message Text

Received route `%ip1%` from `%ip2%` with metric `%num%` could not be added into RIPng db.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6
num	sInt

ripng.message.RxPathUpdtFail

Description

Received route update from neighbor could not be updated.

Remedy

Contact tech support.

Severity

Warning

Message Text

Received route `%ip1%` from `%ip2%` with metric `%num%` could not be udated into RIPng db.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6
num	sInt

ripng.message.RxRoutAddFail

Description

Received route update from neighbor could not be updated.

Remedy

Contact tech support.

Severity

Warning

Message Text

Received new route `%ip1%` from `%ip2%` with metric `%num%` could not be added into RIPng db.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6
num	sInt

ripng.message.SndRtMgrMsg

Description

Send route update to route manager.

Remedy

Debug message.

Severity

Debug-Verbose

Message Text

Sending route `%ip1%`/`%num%` to route manager.

Message Parameters

Name	Type
ip1	IPv6
num	sInt

ripng.message.SndRtMgrMsgFail

Description

Send route update to route manager fail.

Remedy

Contact tech support.

Severity

Warning

Message Text

Failed to send route update message for route, `%ip1%/%num%` to route manager.

Message Parameters

Name	Type
ip1	IPv6
num	sInt

ripng.message.SndRtMgrAbrt

Description

Send route update to route manager fail.

Remedy

Contact tech support.

Severity

Warning

Message Text

Aborted route update to rtMgr for route, `%ip1%/%num%`, as gateway `%ip2%` is not link local address.

Message Parameters

Name	Type
ip1	IPv6
num	sInt
ip2	IPv6

ripng.message.RtLkup

Description

Debug data

Remedy

Debug Data.

Severity

Debug-Verbose

Message Text

Route lookup for dest `%ip1%`, found route `%ip2%`.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6

ripng.message.RtPathLkup

Description

Debug data

Remedy

Debug Data.

Severity

Debug-Verbose

Message Text

Route path lookup for learnt addr `%ip1%`, found from address `%ip2%`, gateway `%ip3%`.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6
ip3	IPv6

ripng.message.RxSrcRout2

Description

Received route update from neighbor .

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Looking up route `%ip1%`/`%num%`.

Message Parameters

Name	Type
ip1	IPv6
num	sInt

ripng.message.TxRout

Description

Transmitting update to neighbor .

Remedy

Informational message only, for debug purpose.

Severity

Debug-Summary

Message Text

Added route `%ip1%`/`%ip2%` to `%ip3%` in packet sent over vlan `%vlanName%` with metric `%num%` at position `%pos%`.

Message Parameters

Name	Type
ip1	IPv6
ip2	sInt
ip3	IPv6
vlanName	VLAN
num	sInt
pos	sInt

ripng.message.TxFailRout

Description

Transmitting update to neighbor .

Remedy

Informational message only, for debug purpose.

Severity

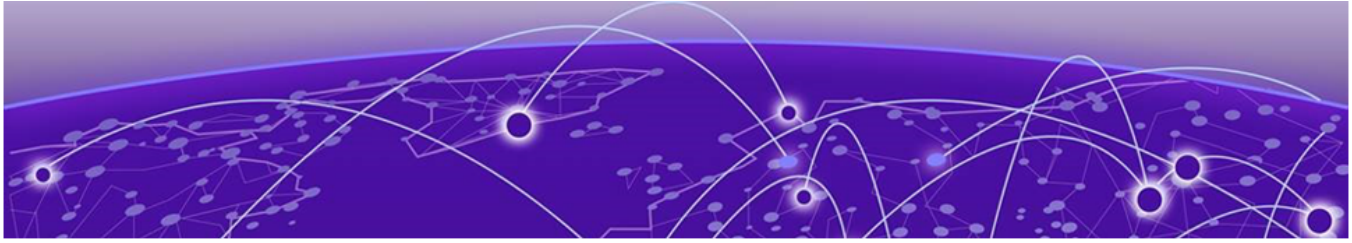
Debug-Summary

Message Text

Failed to add route `%ip1%`/`%ip2%` to `%ip3%` in packet sent over vlan `%vlanName%` with metric `%num%` at position `%pos%`.

Message Parameters

Name	Type
ip1	IPv6
ip2	sInt
ip3	IPv6
vlanName	VLAN
num	sInt
pos	sInt



ripng.route Messages

ripng.route.AddRoutFail on page 4552
ripng.route.DelRoutFail on page 4553
ripng.route.ClrRoutDbFail on page 4553
ripng.route.DelTUFail on page 4554
ripng.route.RoutAddFail on page 4554
ripng.route.RoutPathUpdt on page 4555
ripng.route.RoutPathAdd on page 4555
ripng.route.AddRoutStrt on page 4556
ripng.route.RecvRoutMgrMsg on page 4556
ripng.route.RecvRoutMgrNotif on page 4557
ripng.route.ProcRtAddMsg on page 4557
ripng.route.RecvRtAddFail on page 4558

ripng.route.AddRoutFail

Description

Error occured while trying to add route to RIPng database.

Remedy

Contact tech support.

Severity

Error

Message Text

Error in adding route to internal database.

ripng.route.DelRoutFail

Description

Error occured while trying to delete a route from RIPng database.

Remedy

Contact tech support.

Severity

Error

Message Text

Error in deleting route from internal database.

ripng.route.ClrRoutDbFail

Description

Error occured while trying to delete a route from RIPng database.

Remedy

Contact tech support.

Severity

Error

Message Text

Error in flushing all route from internal database. Leftovers after flush `%d1% %d2%`.

Message Parameters

Name	Type
d1	sInt
d2	sInt

ripng.route.DelTUFail

Description

Error occured while trying to delete a triggered updates from RIPng database.

Remedy

Contact tech support.

Severity

Error

Message Text

Internal error while deleting triggered updates. Internal loop found.

ripng.route.RoutAddFail

Description

Error occured while trying to add route into route manager.

Remedy

Contact tech support.

Severity

Warning

Message Text

Could not add route `%ip1%`, from `%ip2%` with metric `%num%` to routing db.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6
num	sInt

ripng.route.RoutPathUpdt

Description

Error occured while trying to add route into route manager.

Remedy

Contact tech support.

Severity

Debug-Verbose

Message Text

Updating route path for dest `%ip1%`, from `%ip2%` with metric `%num%` to RIPng db.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6
num	sInt

ripng.route.RoutPathAdd

Description

Error occured while trying to add route into route manager.

Remedy

Contact tech support.

Severity

Debug-Verbose

Message Text

Adding route path for dest `%ip1%`, from `%ip2%`, origin `%n1%` with metric `%num%` to RIPng db.

Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6
n1	sInt
num	sInt

ripng.route.AddRoutStrt

Description

Adding to RIPng database.

Remedy

Debug data only.

Severity

Debug-Summary

Message Text

Adding new route `%ip1%`/`%len%`to RIPng database.

Message Parameters

Name	Type
ip1	IPv6
len	sInt

ripng.route.RecvRoutMgrMsg

Description

Message from Route manager.

Remedy

Debug data only.

Severity

Debug-Verbose

Message Text

Received message from route manager of type `%len%`.

Message Parameters

Name	Type
len	sInt

ripng.route.RecvRoutMgrNotif

Description

Message from Route manager.

Remedy

Debug data only.

Severity

Debug-Verbose

Message Text

Received route add/del notification from route manager. Type `%len%`.

Message Parameters

Name	Type
len	sInt

ripng.route.ProcRtAddMsg

Description

Message from Route manager.

Remedy

Debug data only.

Severity

Debug-Verbose

Message Text

Going to process route add notification from route manager for route `%ip1%`.

Message Parameters

Name	Type
ip1	IPv6

ripng.route.RecvRtAddFail

Description

Message from Route manager.

Remedy

Debug data only.

Severity

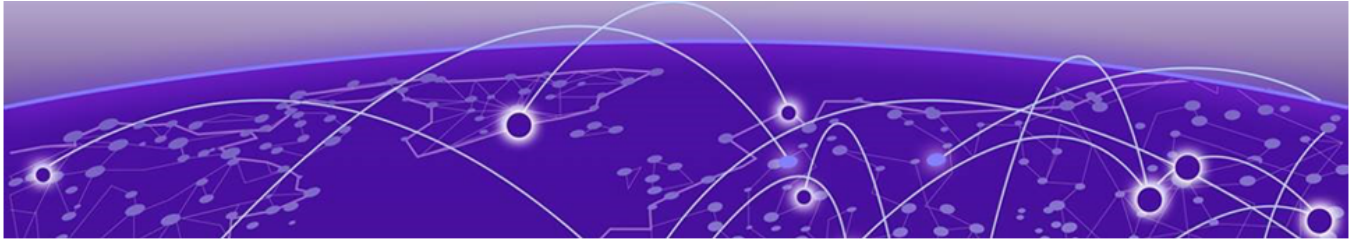
Warning

Message Text

Process route add notification failed because of incorrect route family, `%len%`.

Message Parameters

Name	Type
len	sInt



RMON Messages

RMON.GetEPICSemFail on page 4559
RMON.GetEPICAuthFail on page 4559
RMON.AsyncHALReqFail on page 4560

RMON.GetEPICSemFail

Description

The RMON failed to create/get EPIC Semaphore.

Remedy

NA

Severity

Error

Message Text

RMON fails to get EPIC semaphore.

RMON.GetEPICAuthFail

Description

The RMON failed to (EPIC) Authenticate.

Remedy

NA

Severity

Error

Message Text

RMON fails to get EPIC Authentication.

RMON.AsyncHALReqFail

Description

The RMON fails to send msg request to the HAL for port statistics.

Remedy

NA

Severity

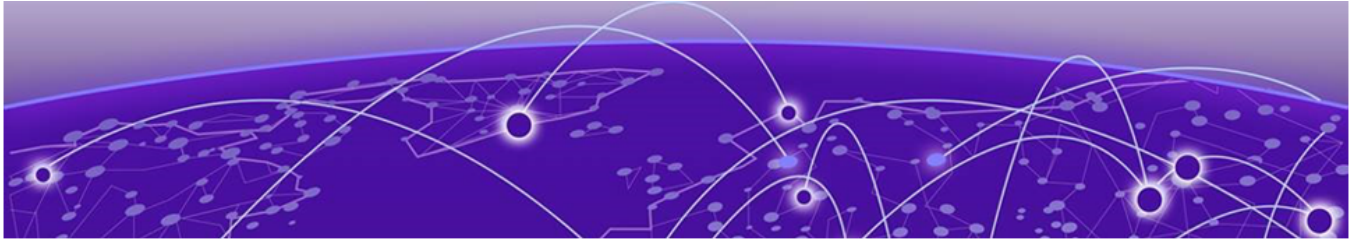
Warning

Message Text

RMON fails to send hal request with error `%error%`.

Message Parameters

Name	Type
error	xInt



RMON.Alarm Messages

RMON.Alarm.AddEnt on page 4561
RMON.Alarm.DelEnt on page 4562
RMON.Alarm.EntStatusChg on page 4562
RMON.Alarm.RiseEvent on page 4563
RMON.Alarm.FallEvent on page 4563
RMON.Alarm.SendTrap on page 4564

RMON.Alarm.AddEnt

Description

RMON alarm has been added.

Remedy

NA

Severity

Debug-Summary

Message Text

RMON adds alarm entry `%index%`.

Message Parameters

Name	Type
index	uInt

RMON.Alarm.DelEnt

Description

RMON alarm has been deleted.

Remedy

NA

Severity

Debug-Summary

Message Text

RMON deletes alarm entry `%index%`/

Message Parameters

Name	Type
index	uInt

RMON.Alarm.EntStatusChg

Description

RMON alarm entry status has been changed.

Remedy

NA

Severity

Debug-Summary

Message Text

The status of alarm entry `%index%` is changed from `%status1%` to `%status2%` `%reason%`.

Message Parameters

Name	Type
index	uInt
status1	String
status2	String
reason	String

RMON.Alarm.RiseEvent

Description

The RMON will send the risisng alarm when the current value exceeds the configured (maximum) threshold value.

Remedy

The Administrator will take the corrective action based on the RMON Notification.

Severity

Debug-Summary

Message Text

Alarm `%index%` sends rising event `%event%` with value `%value%` and threshold `%limit%`.

Message Parameters

Name	Type
index	uInt
event	uInt
value	uInt
limit	uInt

RMON.Alarm.FallEvent

Description

The RMON will send the falling alarm when the current value is below the configured (minimum)threshold value.

Remedy

The Administrator will take the corrective action based on the RMON Notification.

Severity

Debug-Summary

Message Text

Alarm `%index%` sends falling event `%event%` with value `%value%` and threshold `%limit%`.

Message Parameters

Name	Type
index	uInt
event	uInt
value	uInt
limit	uInt

RMON.Alarm.SendTrap

Description

The RMON sends the Trap with the corresponding state information.

Remedy

No remedy is available.

Severity

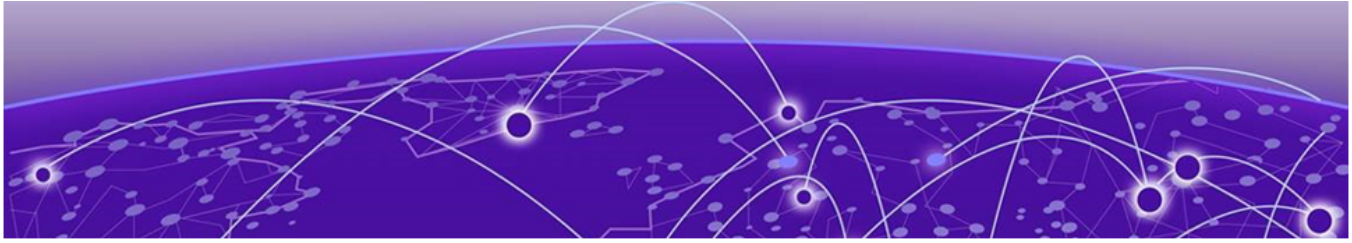
Info

Message Text

Alarm `%index%` sends `%type%` trap with `%state%`.

Message Parameters

Name	Type
index	uInt
type	String
state	String



RMON.Events Messages

RMON.Events.AddEnt on page 4566
RMON.Events.DelEnt on page 4566
RMON.Events.StatusChg on page 4567
RMON.Events.MakeLog on page 4568

RMON.Events.AddEnt

Description

RMON event entry has been created by the user.

Remedy

NA

Severity

Debug-Summary

Message Text

RMON adds a event entry `%index%`.

Message Parameters

Name	Type
index	uInt

RMON.Events.DelEnt

Description

RMON event entry has been deleted by the user.

Remedy

NA

Severity

Debug-Summary

Message Text

RMON deletes event entry `%index%`.

Message Parameters

Name	Type
index	uInt

RMON.Events.StatusChg

Description

The status of the RMON event entry has been changed from valid(1) to undercreation(3) or viseversa.

Remedy

NA

Severity

Debug-Summary

Message Text

The status of event `%index%` is changed from `%status1%` to `%status2%`.

Message Parameters

Name	Type
index	uInt
status1	String
status2	String

RMON.Events.MakeLog

Description

The RMON rising event alarm has been logged.

Remedy

NA

Severity

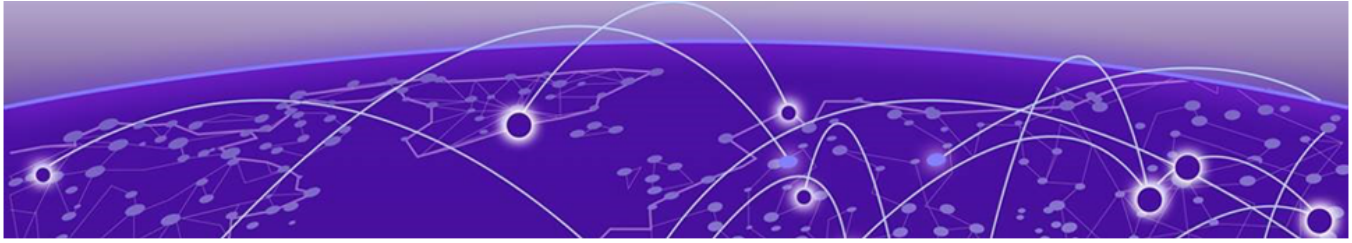
Debug-Summary

Message Text

RMON makes log `%index%.%sample%`.

Message Parameters

Name	Type
index	uInt
sample	uInt



RMON.HAL Messages

RMON.HAL.SendMsg on page 4569
RMON.HAL.RecvMsg on page 4569

RMON.HAL.SendMsg

Description

RMON requests port statistics from HAL.

Remedy

NA

Severity

Debug-Summary

Message Text

RMON requests statistics of port `%port%`.

Message Parameters

Name	Type
port	SlotPort

RMON.HAL.RecvMsg

Description

RMON receives port statistics from HAL.

Remedy

NA

Severity

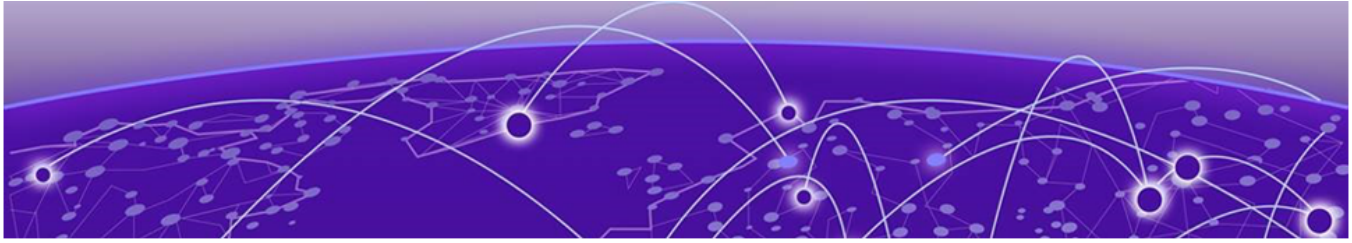
Debug-Summary

Message Text

RMON receives statistics of port `%port%`.

Message Parameters

Name	Type
port	SlotPort



RMON.History Messages

RMON.History.DelEnt on page 4571
RMON.History.UnderCreatTimerExp on page 4572
RMON.History.AddEtherEnt on page 4572
RMON.History.AddEnt on page 4573
RMON.History.AddDfltEnt on page 4574
RMON.History.InitDone on page 4574
RMON.History.EntStatusChg on page 4575

RMON.History.DelEnt

Description

RMON history control entry has been deleted.

Remedy

NA

Severity

Info

Message Text

Deleting history control entry `%index%` with port `%port%`, buckets requested `%req%`, buckets granted `%grant%`, interval `%interval%` and owner `%owner%`

Message Parameters

Name	Type
index	uInt
port	SlotPort
req	uInt
grant	uInt

Name	Type
interval	uInt
owner	String

RMON.History.UnderCreatTimerExp

Description

The RMON history control entry "undercreation" timer has been expired.The entry will be deleted if the entry's timeout value is greater than 1 second.

Remedy

NA

Severity

Info

Message Text

The undercreation timer of histroy control entry `%index%` with port `%port%`, buckets requested `%req%`, buckets granted `%grant%`, interval `%interval%` and owner `%owner%` expires.

Message Parameters

Name	Type
index	uInt
port	SlotPort
req	uInt
grant	uInt
interval	uInt
owner	String

RMON.History.AddEtherEnt

Description

RMON Ethernet history entry has been updated to the backup MSM.

Remedy

NA

Severity

Debug-Summary

Message Text

RMON adds a ethernet history entry with index `%index%` and sample index `%sample%`.

Message Parameters

Name	Type
index	uInt
sample	uInt

RMON.History.AddEnt

Description

RMON :: New row has been added to history control table.

Remedy

NA

Severity

Debug-Summary

Message Text

RMON adds a history control entry `%index%`.

Message Parameters

Name	Type
index	uInt

RMON.History.AddDfltEnt

Description

RMON Default history control entry has been created.

Remedy

NA

Severity

Debug-Summary

Message Text

RMON adds a default history entry `%index%`.

Message Parameters

Name	Type
index	uInt

RMON.History.InitDone

Description

RMON history control has been initialized.

Remedy

NA

Severity

Info

Message Text

RMON intializes history.

RMON.History.EntStatusChg

Description

RMON history control entry status has been changed.

Remedy

NA

Severity

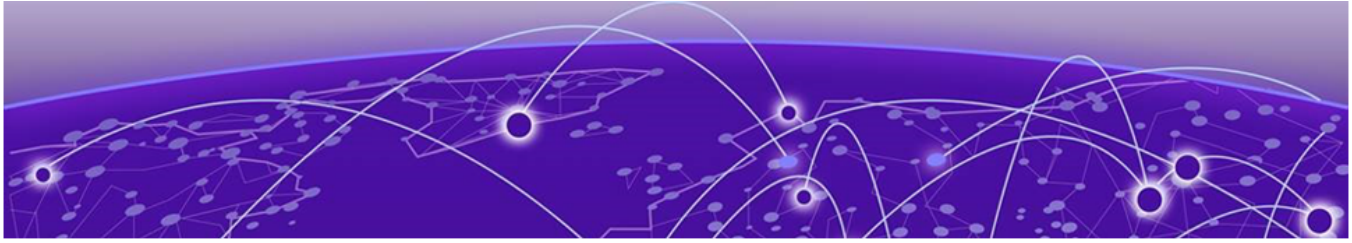
Debug-Summary

Message Text

The status of history control entry `%index%` is changed from `%status1%` to `%status2% %reason%`.

Message Parameters

Name	Type
index	uInt
status1	String
status2	String
reason	String



RMON.Statistics Messages

RMON.Statistics.AddEnt on page 4576
RMON.Statistics.DelEnt on page 4576
RMON.Statistics.EntStatusChg on page 4577
RMON.Statistics.InitDone on page 4578

RMON.Statistics.AddEnt

Description

Added the port to the RMON ether statistics entry.

Remedy

NA

Severity

Debug-Summary

Message Text

RMON adds statistics entry `%index%` with port `%port%`.

Message Parameters

Name	Type
index	uInt
port	SlotPort

RMON.Statistics.DelEnt

Description

Deleted the port from the RMON ether statistics entry.

Remedy

NA

Severity

Debug-Summary

Message Text

RMON deletes statistics entry `%index%` with port `%port%`.

Message Parameters

Name	Type
index	uInt
port	SlotPort

RMON.Statistics.EntStatusChg

Description

The RMON ether statistics entry status has been changed.

Remedy

NA

Severity

Debug-Summary

Message Text

The status of statistics entry `%index%` is changed from `%status1%` to `%status2%` `%reason%`.

Message Parameters

Name	Type
index	uInt
status1	String
status2	String
reason	String

RMON.Statistics.InitDone

Description

The RMON ether statistics entry has been initialized.

Remedy

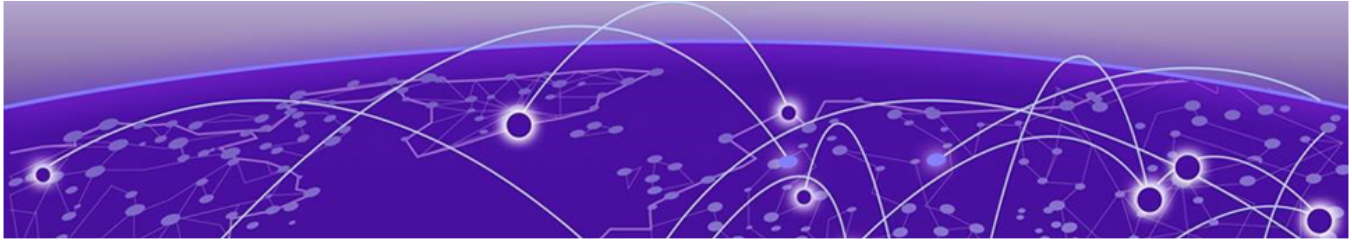
NA

Severity

Info

Message Text

RMON initializes statistics.



RtMgr Messages

RtMgr.Error on page 4580
RtMgr.Warning on page 4581
RtMgr.Notice on page 4581
RtMgr.Info on page 4582
RtMgr.DebugSummary on page 4582
RtMgr.DebugVerbose on page 4583
RtMgr.DebugData on page 4584
RtMgr.init on page 4584
RtMgr.appRegister on page 4585
RtMgr.appDeRegister on page 4585
RtMgr.closeNotifCon on page 4586
RtMgr.multiReg on page 4586
RtMgr.dsInitFailure on page 4587
RtMgr.dsRegisterErr on page 4587
RtMgr.cliMasterErr on page 4588
RtMgr.ORErr on page 4588
RtMgr.icmpInitFailure on page 4589
RtMgr.closeDataCon on page 4589
RtMgr.rxDataPkt on page 4590
RtMgr.rxNotifPkt on page 4590
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RtMgr.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

RtMgr.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

RtMgr.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

RtMgr.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

RtMgr.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

RtMgr.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

RtMgr.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

RtMgr.init

Description

Route Manager process has been successfully started.

Remedy

This is informational message.

Severity

Debug-Summary

Message Text

Router Manager has started

RtMgr.appRegister

Description

An application client has registered with Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Application `%app%` on slot `%slot%` registering with flag `%flag%`

Message Parameters

Name	Type
app	String
slot	Slot
flag	uInt

RtMgr.appDeRegister

Description

An application client has deregistered with Route Manager

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Application `%app%` on slot `%slot%` deregistering

Message Parameters

Name	Type
app	String
slot	Slot

RtMgr.closeNotifCon

Description

An application client has closed notification connection with Route Manager

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Debug-Summary

Message Text

Notif Connection closed abnormally from application `%app%` on slot `%slot%`

Message Parameters

Name	Type
app	String
slot	Slot

RtMgr.multiReg

Description

An application has attempted to register with Route Manager more than once.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Debug-Summary

Message Text

Application `%app%` on slot `%slot%` trying to register more than once

Message Parameters

Name	Type
app	String
slot	Slot

RtMgr.dsInitFailure

Description

Route Manager can not register with Directory Service Process

Remedy

Route Manager shall be restarted or whole switch needs to be rebooted.

Severity

Critical

Message Text

Can not register DS service

RtMgr.dsRegisterErr

Description

Route Manager can not register with DS for specified service.

Remedy

Route Manager shall be restarted or whole switch needs to be rebooted.

Severity

Critical

Message Text

Fail to register with DS service name=%name% ret=%ret%

Message Parameters

Name	Type
name	String
ret	uInt

RtMgr.cliMasterErr

Description

Route Manager can not register with CLI Master.

Remedy

Route Manager shall be restarted or whole switch needs to be rebooted.

Severity

Critical

Message Text

Fail to register with CLI master

RtMgr.ORErr

Description

No description is available.

Remedy

No remedy is available.

Severity

Critical

Message Text

Fail to register with Object Router subagent

RtMgr.icmpInitFailure

Description

Route Manager can not open raw ICMP socket.

Remedy

Route Manager shall be restarted or whole switch needs to be rebooted.

Severity

Critical

Message Text

Can not initialize raw ICMP socket

RtMgr.closeDataCon

Description

An application client has closed data connection with Route Manager

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Debug-Summary

Message Text

Connection closed abnormally from app=`%app%` slot=`%slot%`

Message Parameters

Name	Type
app	String
slot	Slot

RtMgr.rxDataPkt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Recives a data packet(len=`%len%`) from app=`%app%` slot=`%slot%` msg=`%msgTag%` peer=`%peerId%`

Message Parameters

Name	Type
len	uInt
app	String
slot	Slot
msgTag	uInt
peerId	uInt

RtMgr.rxNotifPkt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Recives a data packet(len=`%len%`) from app=`%app%` slot=`%slot%` msg=`%msgTag%` peer=`%peerId%`

Message Parameters

Name	Type
len	uInt
app	String
slot	Slot
msgTag	uInt
peerId	uInt

RtMgr.notifStart

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

Notification thread has started

RtMgr.shutdown

Description

Route Manager is shutting down while there are still application client registering.

Remedy

The exact remedy is dependant on the particular situation. Mostly this is rather informational.

Severity

Info

Message Text

rtmgr is shutting down and waiting for `%num%` clients to be dead .....

Message Parameters

Name	Type
num	uInt

RtMgr.dead

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

I am really dead now !

RtMgr.nullGateway

Description

Routing Protocol tries to add a route with a gateway address, which is unreachable.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Debug-Summary

Message Text

Can not find interface for gateway vr=%vr% addr=%addr%

Message Parameters

Name	Type
vr	uInt
addr	IP

RtMgr.purgeRtStart

Description

Starting purge of routes for a specific client.

Remedy

[No action required - Debug message only. May be of interest to developers to trace and debug events in BGP.

Severity

Debug-Verbose

Message Text

Start to purge routes from client id=%id% app=%app% chassis=%chassis% slot=%slot%: purge=%purge% start=%stime% status=%resume%

Message Parameters

Name	Type
id	xInt32
app	String
chassis	uInt
slot	Slot
purge	Ptr
stime	uInt
resume	String

RtMgr.purgeRtEnd

Description

Ending purge of routes for a specific client.

Remedy

[No action required - Debug message only. May be of interest to developers to trace and debug events in BGP.

Severity

Debug-Verbose

Message Text

purged `%npurged%` routes from client id=`%id%` app=`%app%` chassis=`%chassis%` slot=`%slot%`: purge=`%purge%` time=`%time%` newrtes=`%nnew%` rtstats=`%stats%` status=`%status%`

Message Parameters

Name	Type
npurged	uInt
id	xInt32
app	String
chassis	Slot
slot	Slot
purge	Ptr
time	uInt
nnew	uInt
stats	String
status	String

RtMgr.ospfEndRt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

purged `%total%` OSPF routes from client app=`%app%` chassis=`%chassis%` slot=`%slot%` time=`%time%`

Message Parameters

Name	Type
total	uInt
app	String
chassis	Slot
slot	Slot
time	uInt

RtMgr.addRtKernErr

Description

Route Manager failed to add a route to Kernel FIB table

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Error

Message Text

Fail to add route to Kernel dst=`%dst%` mask=`%mask%` gateway=`%gw%` proto=`%origin%` metric=`%metric%`

Message Parameters

Name	Type
dst	IP
mask	IP
gw	IP
origin	uInt
metric	uInt

RtMgr.delRtKernErr

Description

Route Manager failed to del a route from Kernel FIB table

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Error

Message Text

Fail to delete route to Kernel dst=`%dst%` mask=`%mask%` gateway=`%gw%` proto=`%origin%` metric=`%metric%`

Message Parameters

Name	Type
dst	IP
mask	IP
gw	IP
origin	uInt
metric	uInt

RtMgr.kernRtErr

Description

Route Manager failed to add or delete a route in Kernel FIB table

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Error

Message Text

Fail to add or delete route op=`%op%` dst=`%dst%` mask=`%mask%` gw=`%gw%` flag=`%flag%` mtr=`%mtr%` p=`%proto%` ret=`%ret%`

Message Parameters

Name	Type
op	String
dst	IP
mask	IP
gw	IP
flag	xInt
mtr	uInt
proto	sInt
ret	sInt

RtMgr.RtReplaceNoLsp

Description

Route Manager failed to add or delete a route in IP route table

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Fail to add or delete route, LSP `%index%` is `%state%`

Message Parameters

Name	Type
index	sInt
state	String

RtMgr.RtReq

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

`%oper%` a `%type%` route `%net%`/`%mask%` GW `%gw%` Origin `%origin%` metric `%metric%` TTL `%ttl%`

Message Parameters

Name	Type
oper	String
type	String
net	String
mask	uInt
gw	String
origin	String

Name	Type
metric	uInt
ttl	uInt

RtMgr.RtReplaceNum

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Added `%add%` Deleted `%del%` routes

Message Parameters

Name	Type
add	sInt
del	sInt

RtMgr.rtCompPrefix

Description

Enter optional Description here

Remedy

Enter optional Remedy here

Severity

Debug-Verbose

Message Text

IP prefix %prefix%/%masklen% is %action% in vr %vrname%

Message Parameters

Name	Type
action	String
prefix	String
masklen	uInt
vrname	String

RtMgr.rtCompChunkSum

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Route %operation% is %action% for addr family %afi% in vr %vrname%

Message Parameters

Name	Type
operation	String
action	String
afi	String
vrname	String

RtMgr.rtCompChunkDet

Description

Enter optional Description here

Remedy

Enter optional Remedy here

Severity

Debug-Verbose

Message Text

Route `%operation%` is `%action%` at `%prefix%`/`%masklen%` in vr `%vrname%`

Message Parameters

Name	Type
operation	String
action	String
prefix	String
masklen	uInt
vrname	String

RtMgr.RtTagUpdateNotif

Description

Enter optional Description here

Remedy

Enter optional Remedy here

Severity

Debug-Verbose

Message Text

Route Update Notification for Prefix=`%Prefix%`/`%Plen%` family= `%af%` VR=`%vrid%` Flags=`%Flags%` Nexthops=`%ValidNH%`/`%Nexthops%` Nexthops=`%NexthopList%` numDel=`%numdel%` delOri=`%delori%`

Message Parameters

Name	Type
Prefix	String
Plen	sInt
ValidNH	sInt
Nexthops	sInt
NexthopList	String
Flags	uInt
vrid	sInt
af	sInt
numdel	sInt
delori	sInt

RtMgr.RtInfoDump

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Route Info for Prefix=`%Prefix%`/`%Plen%` family= `%af%` VR=`%vrid%` Flags=`%Flags%` origin=`%origin%` state=`%state%`/

Message Parameters

Name	Type
Prefix	String
Plen	sInt
af	sInt
vrid	sInt
Flags	uInt

Name	Type
origin	sInt
state	sInt

RtMgr.rtInvDelArrErr

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Internal Error; Delete Array count set but array element rtInfo not set; `%err%`

Message Parameters

Name	Type
err	String

RtMgr.CmprsRt

Description

Compress route. If not compressed, cause is printed in reason..

Remedy

None.

Severity

Debug-Data

Message Text

Table=`%vr%` Compress Route (`%a%`) and (`%b%`) status=`%d%` reason= (`%c%`)

Message Parameters

Name	Type
vr	VR
a	String
b	String
d	sInt32
c	String

RtMgr.DelRtFail

Description

Delete route failed for dest/mask via the nh, possible err are route node or route info not found for the route to be deleted.

Remedy

This may not be an issue, as it may be hit when delete is tried for a route not found. Will need developer to take a look if that is not the case.

Severity

Debug-Data

Message Text

Delete Route Failed for `%addr%`/`%mask%` via `%nh%` in vr=`%vr%`

Message Parameters

Name	Type
vr	VRID
addr	String
mask	IPmasklen
nh	String
err	String

RtMgr.XlateRtLSPNotFnd

Description

During Route translation from the message sent by the protocols LSP lookup failed for the route with addr/mask and the LSP index is ifIndex. This is a very unlikely error that indicates that the protocols did not know about the proper LSP index. For route add case and route del case when MPLS is disabled this can be ignored as this lookup is not used by RTMgr.

Remedy

Collect more logs of the Prorotocol (and rtmgr like RtReq) that deleted the route. Will need a developer to take a look at these logs.

Severity

Debug-Data

Message Text

during Translate Route LSP Not Found for `%addr%`/`%mask%` ifIndex=`%ifIndex%` in vr=`%vr%`

Message Parameters

Name	Type
vr	VRID
addr	String
mask	IPmasklen
ifIndex	uInt

RtMgr.WalkInfoAdd

Description

None

Remedy

None

Severity

Debug-Data

Message Text

Walker added %rt% for vr=%vr% walker-entries=%e% walker-index=%i% walker-maxEntries=%m% state=%s%

Message Parameters

Name	Type
vr	VRID
rt	String
i	sInt32
e	sInt32
m	sInt32
s	sInt32

RtMgr.WalkState

Description

None

Remedy

None

Severity

Debug-Data

Message Text

Walker State %s% (%x%) for vr=%vr% walker-entries=%e% walker-index=%i% walker-maxEntries=%m%

Message Parameters

Name	Type
vr	VRID
x	String
s	sInt32
i	sInt32

Name	Type
e	sInt32
m	sInt32

RtMgr.WalkInfoIgn

Description

Walker ignored to add a RTINFO to results array

Remedy

None

Severity

Debug-Data

Message Text

Walker Ignored `%rt%` (Reason=`%rsn%`) for vr=`%vr%` walker-entries=`%e%` walker-index=`%i%` walker-maxEntries=`%m%` state=`%s%`

Message Parameters

Name	Type
vr	VR
rt	String
i	sInt32
e	sInt32
m	sInt32
s	sInt32
rsn	String

RtMgr.DelRtNodeLkupFail

Description

When routes are deleted if there are no more routes for a particualr prefix then the route node is also deleted. This message is used to display the error if a route node lookup fails. vr is the name of the vr in which this happened and addr/mask is the prefix of the roue node.

Remedy

Not a real problem so there is nothing to be resolved.

Severity

Debug-Data

Message Text

during Delete of Route Node `%addr%`/`%mask%` Lookup failed resetting compression to start from radix root vr=`%vr%`

Message Parameters

Name	Type
vr	String
addr	String
mask	IPmasklen

RtMgr.DelRtNodeFail

Description

When routes are deleted if there are no more routes for a particualr prefix then the route node is also deleted. This message is used to display the error if a route node fails. vr is the name of the vr in which this happened and addr/mask is the prefix of the roue node.

Remedy

Collect more logs related to route add/delete. It may need developer intervention.

Severity

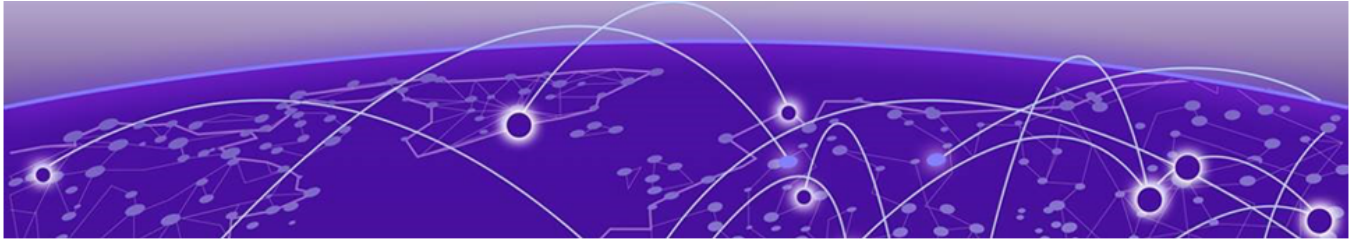
Notice

Message Text

Delete of Route Node `%addr%`/`%mask%` Failed vr=`%vr%`

Message Parameters

Name	Type
vr	String
addr	String
mask	IPmasklen



RtMgr.BFD Messages

RtMgr.BFD.StaticRtStateUp on page 4610
RtMgr.BFD.StaticRtStateDown on page 4611

RtMgr.BFD.StaticRtStateUp

Description

The operational state of the static route has changed to "UP", either because the BFD session to the gateway has transitioned to "UP", or because BFD protection for the route has been removed via configuration, and the interface to the gateway is "UP".

Remedy

This is a notification of a network change.

Severity

Notice

Message Text

The state of the static route to `%dest_ip%`/`%dest_masklen%` (gateway `%gw_addr%`, VR `%vrname%`) has changed to UP due to a BFD session state or protection status change.

Message Parameters

Name	Type
dest_ip	String
dest_masklen	uInt
gw_addr	String
vrname	VR

RtMgr.BFD.StaticRtStateDown

Description

The operational state of the static route has changed to "DOWN" because either the BFD session to the gateway has transitioned to "DOWN", or the route has been configured for BFD protection and the BFD session to the gateway is "DOWN".

Remedy

This is a notification of a network change.

Severity

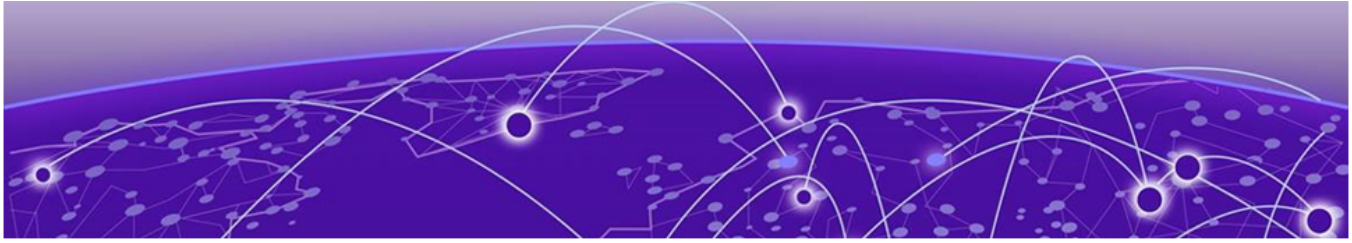
Notice

Message Text

The state of the static route to `%dest_ip%`/`%dest_masklen%` (gateway `%gw_addr%`, VR `%vrname%`) has changed to DOWN due to a BFD session state or protection status change.

Message Parameters

Name	Type
dest_ip	String
dest_masklen	uInt
gw_addr	String
vrname	VR



RtMgr.Client Messages

RtMgr.Client.RegClntOK on page 4612
RtMgr.Client.RegClntAllocMemFail on page 4613
RtMgr.Client.LkupSvcNameFail on page 4614
RtMgr.Client.ClntNotFnd on page 4614
RtMgr.Client.RegExpMasks on page 4615
RtMgr.Client.RegPeerByAddr on page 4615
RtMgr.Client.IPMLSendFail on page 4616
RtMgr.Client.RegNilPeerId on page 4616
RtMgr.Client.RegInvFam on page 4617
RtMgr.Client.RegNotifyFail on page 4617
RtMgr.Client.ipmlAllocFail on page 4618
RtMgr.Client.ReplyTimeOut on page 4619
RtMgr.Client.NotifReg on page 4619
RtMgr.Client.ClientUnreg on page 4620
RtMgr.Client.RegExport on page 4620
RtMgr.Client.InvalidTrans on page 4621
RtMgr.Client.ConnCtl on page 4621
RtMgr.Client.ConnCtlInfo on page 4622
RtMgr.Client.MplsUpdateFecErr on page 4623
RtMgr.Client.ClientCleanup on page 4623
RtMgr.Client.DebugInfo on page 4624
RtMgr.Client.RtReplNumPathErr on page 4624
RtMgr.Client.RtReplMismatchErr on page 4625
RtMgr.Client.GetMsgErr on page 4625
RtMgr.Client.TlvGetObjErr on page 4626
RtMgr.Client.ReplyToVlanTimeOut on page 4627

RtMgr.Client.RegClntOK

Description

A client is registering with RTMGR to send RTEs and get notifications

Remedy

This is a debug message

Severity

Debug-Data

Message Text

rtMgrRegister(`%pid%`, `%id%`) return `%rc%`

Message Parameters

Name	Type
pid	xInt32
id	xInt32
rc	xInt32

RtMgr.Client.RegClntAllocMemFail

Description

Running Low on memory in the system

Remedy

We need to find out who is leaking memory in the system. Or did we configure beyond scale limits of the platform?

Severity

Error

Message Text

Failed to alloc `%size%` bytes

Message Parameters

Name	Type
size	xInt32

RtMgr.Client.LkupSvcNameFail

Description

Trying to resolve a service name to IPML information.

Remedy

Platform is goofed up now. What can I do? Reboot.

Severity

Error

Message Text

Failed to dsGetEntryByAttr(`%service%`)

Message Parameters

Name	Type
service	String

RtMgr.Client.ClntNotFnd

Description

All Registered clients are placed in a Hash Table in the RTMGR client Lib. Find hash is unable to locate the client id.

Remedy

Use jerry show RTM client to see if the client ever registered. If yes, then Hash Find is buggy.

Severity

Error

Message Text

Failed to find_rtMgrClient_hash(`%id%`)

Message Parameters

Name	Type
id	xInt32

RtMgr.Client.RegExpMasks

Description

A client is registering with RTMGR set of export masks for notifications

Remedy

This is a debug message

Severity

Debug-Data

Message Text

clientId=(`%id%`) is Registering new Export Masks DontCare=`%dc%`,masks=`%m%`

Message Parameters

Name	Type
id	xInt32
dc	xInt32
m	String

RtMgr.Client.RegPeerByAddr

Description

A client is registering with RTMGR for notifications. But IPML layer is failing.

Remedy

I dont know how to debug and work around this Issue.

Severity

Error

Message Text

Call to ipmlRegisterPeerByAddr(%attr%) failed.

Message Parameters

Name	Type
attr	String

RtMgr.Client.IPMLSendFail

Description

A client is sending some IPML MSg to RTM. But IPML layer is failing.

Remedy

I dont know how to debug and work around this Issue.

Severity

Error

Message Text

When sending *%cmd%*, call to ipmlSend(%peer%) from clientId=%id% failed.

Message Parameters

Name	Type
peer	xInt32
id	xInt32
cmd	String

RtMgr.Client.RegNilPeerId

Description

RTMGR Clients need to register before setting export masks.

Remedy

Use jerry show RTM client to see if the client ever registered. If yes, then client library is buggy.

Severity

Error

Message Text

Client with ID=%id% has NULL Notify Peer ID.

Message Parameters

Name	Type
id	xInt32

RtMgr.Client.RegInvFam

Description

RTMGR can support two Address families - AF_INET and AF_INET6.

Remedy

Check code for RT_AFI_MAX constant. A client can send %af% less-than RT_AFI_MAX.

Severity

Error

Message Text

Client with ID=%id% is passing invalif AF(%af%).

Message Parameters

Name	Type
id	xInt32
af	xInt32

RtMgr.Client.RegNotifyFail

Description

A client %id% is calling rtMgrRegisterNotif(). For some reason RTMG Notify IPML Service is down

Remedy

I don't know how to debug IPML

Severity

Error

Message Text

Client with ID=`%id%` failed to register with Notify Service in RTMGR.

Message Parameters

Name	Type
id	xInt32

RtMgr.Client.ipmlAllocFail

Description

A client %id% is calling rtMgrRegisterNotif(). For some reason RTMG Notify IPML Service is down

Remedy

I don't know how to debug IPML

Severity

Error

Message Text

Client with ID=`%id%` failed to Alloc IPML buffers size=`%sz%`, type=`%type%`.

Message Parameters

Name	Type
id	xInt32
type	sInt32
sz	sInt32

RtMgr.Client.ReplyTimeOut

Description

A client %id% has called ipmlRecv() and is timed out.

Remedy

I don't know how to debug IPML

Severity

Error

Message Text

Client with ID=`%id%` Timed out waiting for (`%msg%`).

Message Parameters

Name	Type
id	xInt32
msg	String

RtMgr.Client.NotifReg

Description

A client %id% has called rtMgrRegisterNotif2().

Remedy

None

Severity

Debug-Data

Message Text

Client with ID=`%id%` registers flags=`%flg%`.

Message Parameters

Name	Type
id	xInt32
flg	xInt32

RtMgr.Client.ClientUnreg

Description

A client %id% has called rtMgrClientUnregister().

Remedy

None

Severity

Debug-Data

Message Text

Client with ID=`%id%` unregisters.

Message Parameters

Name	Type
id	xInt32

RtMgr.Client.RegExport

Description

A client %id% has called rtMgrRegisterExport().

Remedy

None

Severity

Debug-Data

Message Text

Client with ID=%id% *%cmd%* Export Flags = %flg% for af=%af%.

Message Parameters

Name	Type
id	xInt32
flg	xInt32
af	sInt32
cmd	String

RtMgr.Client.InvalidTrans

Description

A client is passing wrong TransHandle to the RTMGR Client Lib.

Remedy

We need to diagnose how we got here. The code will soon assert(). A core dump may help in analysis.

Severity

Error

Message Text

%func%: Invalid TransHandle (%sa% != %th%).

Message Parameters

Name	Type
func	String
sa	xInt32
th	xInt32

RtMgr.Client.ConnCtl

Description

A rtMgr peer %p% has a connection state change as seen by rtMgrConnCtl().

Remedy

None

Severity

Debug-Data

Message Text

RtMgr Peer %p% rtMgrConnCtl() called with code=%code% (%msg%).

Message Parameters

Name	Type
p	xInt32
code	xInt32
msg	String

RtMgr.Client.ConnCtlInfo

Description

A rtMgr peer %p% has a connection state change as seen by rtMgrConnCtl().

Remedy

None

Severity

Info

Message Text

RtMgr Peer %p% rtMgrConnCtl() called with code=%code% (%msg%).

Message Parameters

Name	Type
p	xInt32
code	xInt32
msg	String

RtMgr.Client.MplsUpdateFecErr

Description

A client is passing wrong TransHandle to the RTMGR Client Lib.

Remedy

We need to diagnose how we got here. The code will soon assert(). A core dump may help in analysis.

Severity

Error

Message Text

`%func%`: NHLFE `%nhlfe%` Nexthop: `%nhop%` Label: `%lbl%`.

Message Parameters

Name	Type
nhlfe	xInt32
nhop	String
lbl	xInt32
func	String

RtMgr.Client.ClientCleanup

Description

A rtMgr client has called rtMgrClientCleanup(). All clients registered will be removed.

Remedy

None

Severity

Debug-Data

Message Text

RtMgr Client `%id%` called rtMgrClientCleanup().

Message Parameters

Name	Type
id	xInt32

RtMgr.Client.DebugInfo

Description

A rtMgr client has called functions named %func% and its arguments are in %args% and its return code is %rc%.

Remedy

None

Severity

Debug-Data

Message Text

RtMgr Client Function `%func%`(`%args%`) return `%rc%`.

Message Parameters

Name	Type
func	String
args	String
rc	sInt32

RtMgr.Client.RtReplNumPathErr

Description

A client is passing Zero or Negative Numpaths when calling rtMgrReplaceRtEntry() function .

Remedy

Translate Client Id to a role (Look at rtMgrShare.h) and explore Caller's code.

Severity

Error

Message Text

Invalid NumPaths(`%numpath%`) called by Client `%id%`

Message Parameters

Name	Type
numpath	xInt32
id	xInt32

RtMgr.Client.RtReplMismatchErr

Description

A client is passing array of rtes. But there is mismatch in either key, metirc, origin or ttl.

Remedy

Translate Client Id to a role (Look at rtMgrShare.h) and explore Caller's code.

Severity

Error

Message Text

Mismatch in parameters: Client=`%id%` Info=`%buf%`

Message Parameters

Name	Type
id	xInt32
buf	String

RtMgr.Client.GetMsgErr

Description

Caller of this function is expecting a TLV which does not match with what is in the message.

Remedy

This a message packaging bug and needs to be resolved before it works.

Severity

Error

Message Text

Mismatch in TLV TYPE: Expecting `%one%`, Got `%two%`

Message Parameters

Name	Type
one	xInt32
two	xInt32

RtMgr.Client.TlvGetObjErr

Description

Caller is trying to pull a TLV from an IPML message but fails.

Remedy

This may be that IPML layer has a bug or the sender never sent the TLV. Only code analysis can provide a confirmation.

Severity

Error

Message Text

TlvGetObjErr() failed: `%msg%`

Message Parameters

Name	Type
msg	String

RtMgr.Client.ReplyToVlanTimeOut

Description

A client %id% has called ipmlRecv() and is timed out. The response delayed may not be picked up by the client. In order to solve the issue, some state machine was added to VLAN manager code so the client function call shall proceed in a meaningful order.

Remedy

Handled already

Severity

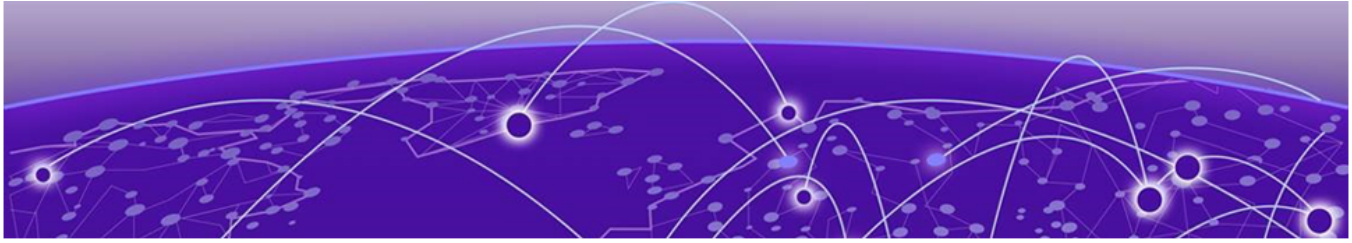
Warning

Message Text

Client VLAN with ID=`%id%` Timed out waiting for (`%msg%`).

Message Parameters

Name	Type
id	xInt32
msg	String



RtMgr.HAL Messages

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RtMgr.HAL.ProcSync on page 4629
RtMgr.HAL.AddIPFIB on page 4629
RtMgr.HAL.ReplIPFIB on page 4630
RtMgr.HAL.DelIPFIB on page 4630
RtMgr.HAL.AgeIPFIB on page 4631
RtMgr.HAL.FlushIPFIB on page 4631
RtMgr.HAL.SendSyncMsg on page 4632
RtMgr.HAL.ProcSyncCard on page 4632
RtMgr.HAL.AddNHLFE on page 4633
RtMgr.HAL.DelNHLFE on page 4634

RtMgr.HAL.ProcHALMsg

Description

Route Manager is connected to HAL via IPC.

Remedy

None.

Severity

Debug-Data

Message Text

```
%a%
```

Message Parameters

Name	Type
a	String

RtMgr.HAL.ProcSync

Description

Route Manager Received a Message from HAL via IPC.

Remedy

None.

Severity

Debug-Data

Message Text

`%a%` message Received from HAL for Card `%b%` (status=`%c%`)

Message Parameters

Name	Type
a	xInt32
b	xInt32
c	xInt32

RtMgr.HAL.AddIPFIB

Description

Route Manager sends an IP FIB Add message to HAL.

Remedy

None.

Severity

Debug-Data

Message Text

Send an IP FiB ADD `%a%` message to HAL for all slots

Message Parameters

Name	Type
a	String

RtMgr.HAL.ReplIPFIB

Description

Route Manager sends an IP FIB Replace message to HAL.

Remedy

None.

Severity

Debug-Data

Message Text

Send an IP FiB REPLACE `%a%` message to HAL for all slots

Message Parameters

Name	Type
a	String

RtMgr.HAL.DelIPFIB

Description

Route Manager sends an IP FIB Replace message to HAL.

Remedy

None.

Severity

Debug-Data

Message Text

Send an IP FiB DELETE %a% message to HAL for all slots

Message Parameters

Name	Type
a	String

RtMgr.HAL.AgeIPFIB

Description

Route Manager sends an IP FIB Age message to HAL.

Remedy

None.

Severity

Debug-Data

Message Text

Send an IP FiB AGE %a% message to HAL for all slots

Message Parameters

Name	Type
a	String

RtMgr.HAL.FlushIPFIB

Description

Route Manager sends an IP FIB Flush message to HAL.

Remedy

None.

Severity

Debug-Data

Message Text

Send an IP FiB FLUSH %a% message to HAL for all slots

Message Parameters

Name	Type
a	String

RtMgr.HAL.SendSyncMsg

Description

Route Manager sends an IP FIB Sync message to HAL.

Remedy

None.

Severity

Debug-Data

Message Text

Send an IP FiB SYNC %a% message to HAL for slot %b% (status=%c%)

Message Parameters

Name	Type
a	xInt32
b	xInt32
c	xInt32

RtMgr.HAL.ProcSyncCard

Description

Sync of Routes to Card in Slot did not start or finish.

Remedy

May be someone pulled the card out.

Severity

Info

Message Text

`%a%` of Routes to slot `%c%`: `%b%`

Message Parameters

Name	Type
a	String
b	String
c	sInt32

RtMgr.HAL.AddNHLFE

Description

Added NHLFE

Remedy

None.

Severity

Debug-Data

Message Text

Added L3VPN NHLFE for Inst=`%inst%` label[0]=`%label0%` label[1]=`%label1%` nh=`%nh%` IfInstance = `%ifi%`

Message Parameters

Name	Type
inst	xInt32
label0	xInt32
label1	xInt32

Name	Type
nh	String
ifi	uInt32

RtMgr.HAL.DelNHLFE

Description

Added NHLFE

Remedy

None.

Severity

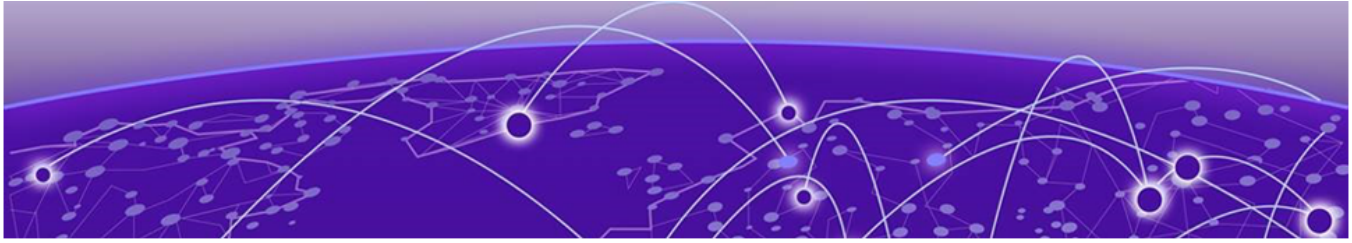
Debug-Data

Message Text

Deleted L3VPN NHLFE for Inst=`%inst%` label[0]=`%label0%` label[1]=`%label1%` nh=`%nh%` IfInstance = `%ifi%`

Message Parameters

Name	Type
inst	xInt32
label0	xInt32
label1	xInt32
nh	String
ifi	uInt32



RtMgr.If Messages

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RtMgr.If.SetICMPAddrMask on page 4638
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RtMgr.If.FndIPv4Addr on page 4649
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RtMgr.If.ProcLSPAdd on page 4654
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RtMgr.If.UpdtLSPFEC on page 4657
RtMgr.If.UpdtNmdLSP on page 4658
RtMgr.If.SetLSPFwd on page 4659

RtMgr.If.ProcLSPUp

Description

Process LSP UP for named LSP. Watch the message.

Remedy

None

Severity

Debug-Data

Message Text

Process LSP UP for named LSP `%lsp%` - `%msg%`

Message Parameters

Name	Type
lsp	String
msg	String

RtMgr.If.JoinAllRtrGrp

Description

Caller joins a multicast group IP address on a vlan. If rc is less than 0, it is errno.

Remedy

none

Severity

Debug-Data

Message Text

Join multicast `%ipa%` on `%vlan%` for VRId=`%vrid%` rc=`%rc%`

Message Parameters

Name	Type
ipa	IP
vlan	String
vrid	sInt32
rc	sInt32

RtMgr.If.LeaveAllRtrGrp

Description

Caller leaves a multicast group IP address on a vlan. If rc is less than 0, it is errno.

Remedy

none

Severity

Debug-Data

Message Text

Leave multicast `%ipa%` on `%vlan%` for VRId=`%vrid%` rc=`%rc%`

Message Parameters

Name	Type
ipa	IP
vlan	String
vrid	sInt32
rc	sInt32

RtMgr.If.SetICMPAddrMask

Description

Set ICMP Address mask.

Remedy

None

Severity

Debug-Data

Message Text

Set `%val%` on ICMP Address Mask kernel `%proc%` on vlan `%vlan%` (`%status%`)

Message Parameters

Name	Type
vlan	String
proc	String
val	sInt32
status	sInt32

RtMgr.If.SetICMPParamPrblm

Description

Set ICMP Parameter Problem.

Remedy

None

Severity

Debug-Data

Message Text

Set `%val%` on ICMP Param Problem kernel `%proc%` on vlan `%vlan%` (`%status%`)

Message Parameters

Name	Type
vlan	String
proc	String
val	sInt32
status	sInt32

RtMgr.If.SetICMPPortUnrch

Description

Set ICMP Port Unreachable behavior.

Remedy

None

Severity

Debug-Data

Message Text

Set `%val%` on ICMP Port Unreachable kernel `%proc%` on vlan `%vlan%` (`%status%`)

Message Parameters

Name	Type
vlan	String
proc	String
val	sInt32
status	sInt32

RtMgr.If.SetICMPUnrch

Description

Set ICMP Unreachable behavior.

Remedy

None

Severity

Debug-Data

Message Text

Set `%val%` on ICMP Unreachable kernel `%proc%` on vlan `%vlan%` (`%status%`)

Message Parameters

Name	Type
vlan	String
proc	String
val	sInt32
status	sInt32

RtMgr.If.SetICMPUseRedir

Description

Set ICMP Accept Redirects behavior.

Remedy

None

Severity

Debug-Data

Message Text

Set `%val%` on ICMP Accept Redirects kernel `%proc%` on vlan `%vlan%` (`%status%`)

Message Parameters

Name	Type
vlan	String
proc	String
val	sInt32
status	sInt32

RtMgr.If.SetICMPRedir

Description

Set ICMP Send Redirects behavior.

Remedy

None

Severity

Debug-Data

Message Text

Set `%val%` on ICMP Send Redirects kernel `%proc%` on vlan `%vlan%` (`%status%`)

Message Parameters

Name	Type
vlan	String
proc	String
val	sInt32
status	sInt32

RtMgr.If.SetICMPTimeExcd

Description

Set ICMP time exceeded behavior.

Remedy

None

Severity

Debug-Data

Message Text

Set `%val%` on ICMP Time Exceeded kernel `%proc%` on vlan `%vlan%` (`%status%`)

Message Parameters

Name	Type
vlan	String
proc	String
val	sInt32
status	sInt32

RtMgr.If.SetICMPTimeStamp

Description

Set ICMP time-stamp behavior.

Remedy

None

Severity

Debug-Data

Message Text

Set `%val%` on ICMP TimeStamp kernel `%proc%` on vlan `%vlan%` (`%status%`)

Message Parameters

Name	Type
vlan	String
proc	String
val	sInt32
status	sInt32

RtMgr.If.HndlRtIfState

Description

Handle state change for RTIF.

Remedy

None

Severity

Debug-Data

Message Text

Handle RTIF={%rtif%} State Change from %old% state to %new% state (set=%set% bit=%bit%)

Message Parameters

Name	Type
rtif	String
old	sInt32
new	sInt32
bit	sInt32
set	sInt32

RtMgr.If.SetIPFwd

Description

Set IP forward for a VR.

Remedy

None

Severity

Debug-Data

Message Text

Set IP forward val=%val% for vrid=%vr%.

Message Parameters

Name	Type
vr	sInt32
val	sInt32

RtMgr.If.SetVRLSPFwd

Description

Set LSP forward for a VR.

Remedy

None

Severity

Debug-Data

Message Text

Set VR LSP forward val=`%val%` for vrid=`%vr%`.

Message Parameters

Name	Type
vr	sInt32
val	sInt32

RtMgr.If.GetLSPFwd

Description

Get LSP forward for a VR.

Remedy

None

Severity

Debug-Data

Message Text

Get LSP forward val=`%val%` for vrid=`%vr%`(NHLFE=`%nhlfe%`).

Message Parameters

Name	Type
vr	sInt32
nhlfe	xInt32
val	sInt32

RtMgr.If.AddIf

Description

Add an RTIF.

Remedy

None

Severity

Debug-Data

Message Text

Add RTIF (`%rtif%`).

Message Parameters

Name	Type
rtif	String

RtMgr.If.RenmIf

Description

Rename an RTIF.

Remedy

None

Severity

Debug-Data

Message Text

Rename RTIF (`%rtif%`) with new name `%nam%`.

Message Parameters

Name	Type
rtif	String
nam	String

RtMgr.If.DelIf

Description

Rename an RTIF.

Remedy

None

Severity

Debug-Data

Message Text

Delete RTIF (`%rtif%`).

Message Parameters

Name	Type
rtif	String

RtMgr.If.AddIPv4Addr

Description

Add an IPv4 Address on an RTIF.

Remedy

None

Severity

Debug-Data

Message Text

Add %ipa%/%len% on RTIF %rtif% (FirstIPA=%fir% Primary=%pri%).

Message Parameters

Name	Type
rtif	String
ipa	String
len	sInt32
fir	sInt32
pri	sInt32

RtMgr.If.ProcLSPDn

Description

Process LSP DOWN for named LSP. Watch the message.

Remedy

None

Severity

Debug-Data

Message Text

Process LSP DOWN for named LSP %lsp% - %msg% willFreeLsp=%willFreeLsp%

Message Parameters

Name	Type
lsp	String
msg	String
willFreeLsp	sInt32

RtMgr.If.AddIPv6Addr

Description

Add an IPv6 address on an RTIF.

Remedy

None

Severity

Debug-Data

Message Text

Add `%ipa%`/`%len%` on RTIF `%rtif%`.

Message Parameters

Name	Type
rtif	String
ipa	String
len	sInt32

RtMgr.If.DelIPv4Addr

Description

Delete an IPv4 address on an RTIF.

Remedy

None

Severity

Debug-Data

Message Text

Delete `%ipa%`/`%len%` on RTIF `%rtif%`.

Message Parameters

Name	Type
rtif	String
ipa	String
len	sInt32

RtMgr.If.DelIPv6Addr

Description

Delete an IPv6 address on an RTIF.

Remedy

None

Severity

Debug-Data

Message Text

Delete `%ipa%`/`%len%` on RTIF `%rtif%`.

Message Parameters

Name	Type
rtif	String
ipa	String
len	sInt32

RtMgr.If.FndIPv4Addr

Description

Find an RTIF matching a given IPv4 address.

Remedy

None

Severity

Debug-Data

Message Text

Find RTIF matching `%ipa%`/`%len%` - Found (`%msg%`).

Message Parameters

Name	Type
msg	String
ipa	String
len	sInt32

RtMgr.If.FndIPv6Addr

Description

Find the RTIF matching a givenIPv6 address.

Remedy

None

Severity

Debug-Data

Message Text

Find RTIF matching `%ipa%`/`%len%` - Found (`%msg%`).

Message Parameters

Name	Type
msg	String
ipa	String
len	sInt32

RtMgr.If.FndIfByName

Description

Find the RTIF matching a given name.

Remedy

None

Severity

Debug-Data

Message Text

Find RTIF matching name=`%nam%` - Found (`%msg%`).

Message Parameters

Name	Type
nam	String
msg	String

RtMgr.If.FndIfByIdx

Description

Find the RTIF matching a given index.

Remedy

None

Severity

Debug-Data

Message Text

Find RTIF matching index=`%idx%` - Found (`%msg%`).

Message Parameters

Name	Type
idx	xInt32
msg	String

RtMgr.If.FndIfByInst

Description

Find the RTIF matching a given instance.

Remedy

None

Severity

Debug-Data

Message Text

Find RTIF matching instance=`%idx%` - Found (`%msg%`)

Message Parameters

Name	Type
idx	xInt32
msg	String

RtMgr.If.FndTunlGw

Description

Find a tunnel gateway matching a set of criterion.

Remedy

None

Severity

Debug-Data

Message Text

Find Tunnel GW matching name=%nam% type=%typ% %ip1% %ip2% create=%crt% Afi=%afi%. Found GW=%gw%.

Message Parameters

Name	Type
nam	String
typ	xInt32
ip1	String
ip2	String
crt	sInt32
afi	sInt32
gw	String

RtMgr.If.ChgTunlGwState

Description

Change state of a tunnel gateway.

Remedy

None

Severity

Debug-Data

Message Text

Change Tunnel GW=%gw% state. Action = %act%

Message Parameters

Name	Type
gw	String
act	xInt32

RtMgr.If.PurgTunlRt

Description

Change state of a tunnel gateway.

Remedy

None

Severity

Debug-Data

Message Text

Purge Tunnel routes for proto=`%pro%` force=`%force%` Table=`%nam%`

Message Parameters

Name	Type
nam	String
pro	xInt32
force	xInt32

RtMgr.If.ProcLSPAdd

Description

An LSP came up. Process all rtes going via this LSP.

Remedy

None

Severity

Debug-Data

Message Text

For Table=`%nam%` processed LSP `%lsp%` UP for `%cnt%` rtes

Message Parameters

Name	Type
nam	String
lsp	String
cnt	sInt32

RtMgr.If.CreatLSPInfo

Description

Create LSP Info. Watch the message.

Remedy

None

Severity

Debug-Data

Message Text

Create LSP Info `%lsp%` - `%msg%`

Message Parameters

Name	Type
lsp	String
msg	String

RtMgr.If.DelLSPInfo

Description

Delete LSP Info. Watch the message.

Remedy

None

Severity

Debug-Data

Message Text

Delete LSP Info `%lsp%` - `%msg%`

Message Parameters

Name	Type
lsp	String
msg	String

RtMgr.If.ProcLSPFEC

Description

Process LSP FEC. Watch the message.

Remedy

None

Severity

Debug-Data

Message Text

Process LSP FEC `%fec%` - `%msg%`

Message Parameters

Name	Type
fec	String
msg	String

RtMgr.If.DelLSPFEC

Description

Delete LSP FEC. Watch the message.

Remedy

None

Severity

Debug-Data

Message Text

Delete LSP FEC `%fec%` - `%msg%`

Message Parameters

Name	Type
fec	String
msg	String

RtMgr.If.AddLSPFEC

Description

Add LSP FEC. Watch the msg.

Remedy

The cause of failure is in msg field. Try to diagnose how it can happen.

Severity

Debug-Data

Message Text

Add LSP FEC `%fec%` - `%msg%`

Message Parameters

Name	Type
fec	String
msg	String

RtMgr.If.UpdtLSPFEC

Description

Update LSP FEC. Watch the message.

Remedy

None

Severity

Debug-Data

Message Text

Update LSP FEC `%fec%` - `%msg%`

Message Parameters

Name	Type
fec	String
msg	String

RtMgr.lf.UpdtNmdLSP

Description

Update named LSP. Watch the message.

Remedy

None

Severity

Debug-Data

Message Text

Update Named LSP `%lsp%` - `%msg%`

Message Parameters

Name	Type
lsp	String
msg	String

RtMgr.If.SetLSPFwd

Description

Set LSP forward for a VR.

Remedy

None

Severity

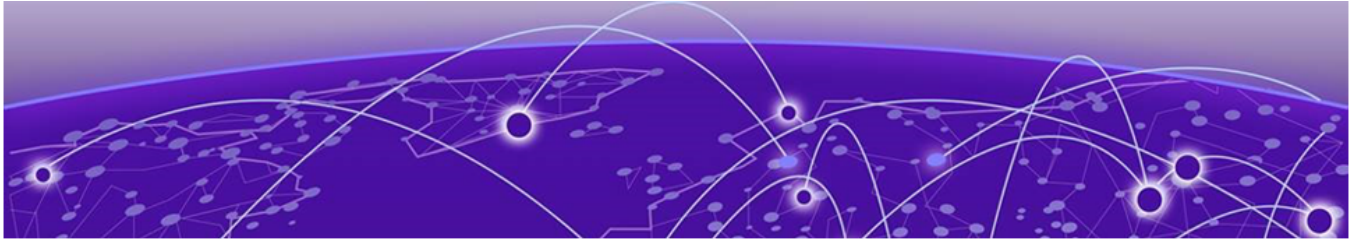
Debug-Data

Message Text

Set LSP forward val=`%val%` for lsp=`%lsp%`.

Message Parameters

Name	Type
lsp	String
val	sInt32



RtMgr.Kern Messages

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RtMgr.Kern.AddIPv4Rt

Description

RTM adding IPV4 Route to Kernel IPv4 FIB.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Add IPv4 Route Prefix=`%pfx%`

Message Parameters

Name	Type
pfx	String

RtMgr.Kern.AddIPv6Rt

Description

RTM adding IPv6 Route to Kernel IPv4 FIB.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Add IPv6 Route Prefix=`%pfx%`

Message Parameters

Name	Type
pfx	String

RtMgr.Kern.ChgIPv6Rt

Description

RTM adding IPv6 Route to Kernel IPv4 FIB.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Add IPv6 Route Prefix=`%pfx%`

Message Parameters

Name	Type
pfx	String

RtMgr.Kern.AddILM

Description

RTM adding ILM label for a L3VPN VRF.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Add ILM label=%lbl% VRF-ID=%id% VRF=%vrf%

Message Parameters

Name	Type
lbl	xInt32
id	xInt32
vrf	VRF

RtMgr.Kern.DelILM

Description

RTM deleting ILM label for a L3VPN VRF.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Delete ILM label=%lbl% VRF-ID=%id% VRF=%vrf%

Message Parameters

Name	Type
lbl	xInt32
id	xInt32
vrf	VRF

RtMgr.Kern.AddNHLFE

Description

RTM adding NHLFE Instace for a L3VPN VRF.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Add NHLFE Instance=`%key%` Inner-label=`%lbl%` Outer-label=`%olbl%` Outer-key=`%okey%` VRF-ID=`%id%` VRF=`%vrf%`

Message Parameters

Name	Type
key	xInt32
lbl	xInt32
olbl	xInt32
okey	xInt32
id	xInt32
vrf	VRF

RtMgr.Kern.DelNHLFE

Description

RTM deleting NHLFE Instace for a L3VPN VRF.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Delete NHLFE Instance=%key% Inner-label=%lbl% Outer-label=%olbl% Outer-key=%okey% VRF-ID=%id% VRF=%vrf%

Message Parameters

Name	Type
key	xInt32
lbl	xInt32
olbl	xInt32
okey	xInt32
id	xInt32
vrf	VRF

RtMgr.Kern.ChgNHLFE

Description

RTM Changing NHLFE Instace for a L3VPN VRF.

Remedy

This is a debug message

Severity

Debug-Summary

Message Text

Change NHLFE Instance=%key% Inner-label=%lbl% Outer-label=%olbl% Outer-key=%okey% VRF-ID=%id% VRF=%vrf%

Message Parameters

Name	Type
key	xInt32
lbl	xInt32
olbl	xInt32
okey	xInt32

Name	Type
id	xInt32
vrf	VRF

RtMgr.Kern.ModNHLFEFail

Description

NHLFE Modify Failed.

Remedy

None

Severity

Debug-Data

Message Text

NHLFE Modify Failed: innerNHInst=`%iInst%` innerLabel=`%innerLabel%` lspNhInst=`%lInst%` outerLabel=`%outerLabel%` VRF=`%vrf%`

Message Parameters

Name	Type
iInst	xInt32
innerLabel	xInt32
lInst	xInt32
outerLabel	xInt32
vrf	VRF

RtMgr.Kern.ModNHLFEOK

Description

NHLFE Modify Failed.

Remedy

None

Severity

Debug-Data

Message Text

NHLFE Modify Succeded: innerNHInst=`%iInst%` innerLabel=`%innerLabel%` lspNhInst=`%lInst%` outerLabel=`%outerLabel%` VRF=`%vrf%`

Message Parameters

Name	Type
iInst	xInt32
innerLabel	xInt32
lInst	xInt32
outerLabel	xInt32
vrf	VRF

RtMgr.Kern.BndFail

Description

Socket bind() syscall failed.

Remedy

This should not happen. Something wrong with kernel.

Severity

Error

Message Text

Socket bind failed - `%err%`

Message Parameters

Name	Type
err	String

RtMgr.Kern.GetSockNameFail

Description

Socket getsockname() syscall failed.

Remedy

This should not happen. Something wrong with kernel.

Severity

Error

Message Text

Socket getsockname failed - `%err%`

Message Parameters

Name	Type
err	String

RtMgr.Kern.InvAddrLen

Description

gettsockname() syscall returns address and length in bytes of the address. If we have a mismatch in what we expect and what is returned, then this error is returned.

Remedy

This should not happen. Mismatch with kernel and Userspace data structures.

Severity

Error

Message Text

getsockname returns Address length `%a%` that does not match `%b%`

Message Parameters

Name	Type
a	sInt32
b	sInt32

RtMgr.Kern.InvAddrFamily

Description

gettsockname() syscall returns address and length in bytes of the address. If we have a mismatch in what we expect and what is returned, then this error is returned.

Remedy

This should not happen. Mismatch with kernel and Userspace data structures.

Severity

Error

Message Text

getsockname returns Address family %a% that is not AF_NETLINK.

Message Parameters

Name	Type
a	sInt32

RtMgr.Kern.SendFail

Description

We failed to send a netlink message to the kernel..

Remedy

Look at the error message to help you debug..

Severity

Error

Message Text

Sendmsg() socket system call failed - `%err%` ret=`%ret%`.

Message Parameters

Name	Type
ret	uInt32
err	String

RtMgr.Kern.MsgInv

Description

recvmsg() returned bytes and Netlink header and Netlink PDU bytes are confused.

Remedy

Need to debug kernel.

Severity

Info

Message Text

Received Invalid lengths - Rxd Bytes=`%ret%`, Netlink-hdr-len=`%len%` Netlink-pdu-byte-`%pdu%`.

Message Parameters

Name	Type
pdu	sInt32
len	sInt32
ret	sInt32

RtMgr.Kern.MsgLenMatchFail

Description

recvmsg() returned bytes and Netlink header and Netlink PDU bytes are confused.

Remedy

Need to debug kernel.

Severity

Info

Message Text

Received Netlink - Remaining `%ret%` bytes.

Message Parameters

Name	Type
ret	sInt32

RtMgr.Kern.InvRtAttr

Description

When parsing RTE attributes, we have some ATTR bytes left over.

Remedy

Need to debug kernel.

Severity

Info

Message Text

Invalid Route Attributes - Remaining `%a%` bytes in RTA(`%b%`).

Message Parameters

Name	Type
a	sInt32
b	sInt32

RtMgr.Kern.ProcUpdtRt

Description

Update Kernel Route Tables.

Remedy

None.

Severity

Debug-Data

Message Text

Update Kernel - table=%vr% delcnt=%a% Blackhole=%b% BestRt=(%c%) DelRt=%d%.

Message Parameters

Name	Type
vr	VR
a	sInt32
b	sInt32
c	String
d	String

RtMgr.Kern.UpdtRtFailInvTbl

Description

Update Kernel Route Table failed due to invalid table.

Remedy

None.

Severity

Info

Message Text

Route to the mgmt table failed,Invalid Table when stacking not enabled table=%vr%.

Message Parameters

Name	Type
vr	VR

RtMgr.Kern.UpdtMPLSRt

Description

Update Kernel Route Tables.

Remedy

None.

Severity

Debug-Data

Message Text

Backup MSM/MM: Update Kernel MPLS RTE table - Table=`%vr%`.

Message Parameters

Name	Type
vr	VR

RtMgr.Kern.UpdtRtDelNonDrctRt

Description

Delete a Kernel Indirect Route.

Remedy

None.

Severity

Debug-Data

Message Text

Table=%vr% Delete IPv4 RTE=%a%

Message Parameters

Name	Type
vr	VR
a	String

RtMgr.Kern.UpdtRtDelIPv6Rt

Description

Delete a Kernel IPv6 Route.

Remedy

None.

Severity

Debug-Data

Message Text

Table=%vr% Delete IPv6 RTE=%a%

Message Parameters

Name	Type
vr	VR
a	String

RtMgr.Kern.UpdtRtOK

Description

Delete a Kernel IPv6 Route.

Remedy

None.

Severity

Debug-Data

Message Text

Table=%vr% %a% RTE=(%b%) OK

Message Parameters

Name	Type
vr	VR
a	String
b	String

RtMgr.Kern.AddRt

Description

Add Kernel Route.

Remedy

None.

Severity

Debug-Data

Message Text

Table=%vr% Add RTE=%a% (%b%)

Message Parameters

Name	Type
vr	VR
a	String
b	String

RtMgr.Kern.DelRt

Description

Add Kernel Route.

Remedy

None.

Severity

Debug-Data

Message Text

Table=%vr% Del RTE=%a% (%b%)

Message Parameters

Name	Type
vr	VR
a	String
b	String

RtMgr.Kern.ReplRt

Description

Add Kernel Route.

Remedy

None.

Severity

Debug-Data

Message Text

Table=%vr% Repl RTE (%a%) with (%b%) (%c%)

Message Parameters

Name	Type
vr	VR
a	String
b	String
c	String

RtMgr.Kern.MsgTrunc

Description

recvmsg() returned bytes and Netlink header and Netlink PDU bytes are confused.

Remedy

Need to debug kernel.

Severity

Info

Message Text

Received Netlink Error - Netlink-pdu-byte-`%pdu%` is less than sizeof netlink error message.

Message Parameters

Name	Type
pdu	sInt32

RtMgr.Kern.RecvTruncMsgFlag

Description

Possible that the message is too big or some other kernel issue

Remedy

Need to debug kernel.

Severity

Info

Message Text

Received Truncated Message Flag, Netlink message header has MSG_TRUNC set.

RtMgr.Kern.AddRtOK

Description

Add Kernel Route.

Remedy

None.

Severity

Debug-Data

Message Text

Table=`%vr%` Add RTE=`%a%` Succesful.

Message Parameters

Name	Type
vr	VR
a	String

RtMgr.Kern.DelRtOK

Description

Del Kernel Route.

Remedy

None.

Severity

Debug-Data

Message Text

Table=%vr% Del RTE=%a% Succesful.

Message Parameters

Name	Type
vr	VR
a	String

RtMgr.Kern.DelNHLFEFail

Description

NHLFE Modify Failed.

Remedy

None

Severity

Debug-Data

Message Text

NHLFE Del Failed: innerNHInst=%iInst% innerLabel=%innerLabel% lspNhInst=%lInst% outerLabel=%outerLabel% VRF=%vrf%

Message Parameters

Name	Type
iInst	xInt32
innerLabel	xInt32
lInst	xInt32
outerLabel	xInt32
vrf	VRF

RtMgr.Kern.DelNHLFEOK

Description

NHLFE Modify Failed.

Remedy

None

Severity

Debug-Data

Message Text

NHLFE Del Succeded: innerNHInst=`%iInst%` innerLabel=`%innerLabel%` lspNhInst=`%lInst%` outerLabel=`%outerLabel%` VRF=`%vrf%`

Message Parameters

Name	Type
iInst	xInt32
innerLabel	xInt32
lInst	xInt32
outerLabel	xInt32
vrf	VRF

RtMgr.Kern.ChgKernEXFIBShimOK

Description

Modificitaion of Kernel EXFIB shim succeded. This shim is added for gateways that are in a VR different from that of the route. The shim has a key "key" via a "nharr" , interface index "ifIndex". The shim is added in the VRF=vrf.

Remedy

None

Severity

Debug-Data

Message Text

Change Kernel EXFIB shim Succeded: key=`%key%` nhaddr=`%nhaddr%` ifIndex=`%ifIndex%` VRF=`%vrf%`

Message Parameters

Name	Type
key	xInt32
nhaddr	String
ifIndex	sInt32
vrf	VRF

RtMgr.Kern.DelKernEXFIBShimOK

Description

Delete of Kernel EXFIB shim succeded. The deleted shim has a key "key" via a "nharr" , interface index "ifIndex". The shim is added in the VRF=vrf.

Remedy

None

Severity

Debug-Data

Message Text

Delete Kernel EXFIB shim Succeded: key=`%key%` nhaddr=`%nhaddr%` ifIndex=`%ifIndex%` VRF=`%vrf%`

Message Parameters

Name	Type
key	xInt32
nhaddr	String
ifIndex	sInt32
vrf	VRF

RtMgr.Kern.MsgReqRecvNoRspns

Description

Possible failure of netlink request to kernel.

Remedy

Need to debug kernel.

Severity

Info

Message Text

Received no response to netlink request `%cmd%` to kernel err=`%err%`

Message Parameters

Name	Type
cmd	uInt16
err	sInt32

RtMgr.Kern.MsgReqFail

Description

Netlink request to kernel failed.

Remedy

Need to debug kernel.

Severity

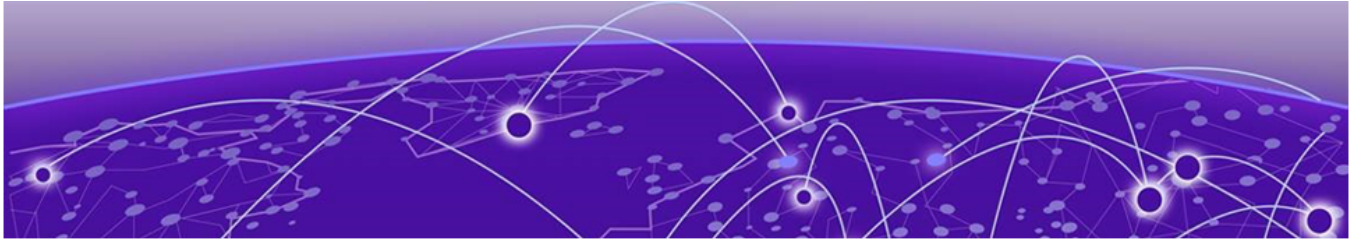
Debug-Summary

Message Text

Netlink request `%cmd%` to kernel failed, rcv bytes=`%ret%` err=`%err%`

Message Parameters

Name	Type
cmd	uInt16
ret	sInt32
err	sInt32



RtMgr.PingProtect Messages

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RtMgr.PingProtect.GwDown on page 4684
RtMgr.PingProtect.StaticRtStateUp on page 4684
RtMgr.PingProtect.StaticRtStateDown on page 4685
RtMgr.PingProtect.GwProtectFail on page 4686

RtMgr.PingProtect.GwUp

Description

This event occurs when ICMP Ping Protection detects the given gateway IP address has replied to an ICMP Request. All static routes added with this gateway IP address with Ping Protection will be changed from down state to Up.

Remedy

No action required - Notification of a network change only.

Severity

Notice

Message Text

`%vrName%`: Gateway IP `%gwIPaddr%` is up

Message Parameters

Name	Type
vrName	String
gwIPaddr	String

RtMgr.PingProtect.GwDown

Description

This event occurs when ICMP Ping Protection detects the given gateway IP address failed to reply to any ICMP Requests of the configured number of misses allowed. All static routes added with this gateway IP address with Ping Protection will be changed from Up state to down.

Remedy

This is a notification of a network change. Check the status of the device with the given IP address.

Severity

Notice

Message Text

`%vrName%`: Gateway IP `%gwIPaddr%` is down

Message Parameters

Name	Type
vrName	String
gwIPaddr	String

RtMgr.PingProtect.StaticRtStateUp

Description

The operational state of the static route has changed to "Up", either because ICMP Ping Protection detected the gateway replied with an ICMP Echo Reply, or because Ping Protection for the IP address family has been disabled, thus assuming ping-protected gateways are up.

Remedy

No action required - Notification of a network change only.

Severity

Notice

Message Text

`%vrName%`: Static route to `%subnet%`/`%masklen%` gateway `%gwIPaddr%` has changed to Up state

Message Parameters

Name	Type
vrName	String
subnet	String
masklen	uInt
gwIPaddr	String

RtMgr.PingProtect.StaticRtStateDown

Description

The operational state of the static route has changed from "Up" state to down because ICMP Ping Protection detected the given gateway IP address failed to reply to any ICMP Requests of the configured number of misses allowed.

Remedy

No action required - Notification of a network change only.

Severity

Notice

Message Text

`%vrName%`: Static route to `%subnet%`/`%masklen%` gateway `%gwIPaddr%` has changed to down state

Message Parameters

Name	Type
vrName	String
subnet	String
masklen	uInt
gwIPaddr	String

RtMgr.PingProtect.GwProtectFail

Description

This event occurs when ICMP Ping Protection could not start on the given gateway IP address for the given reason. All static routes added with this gateway IP address with Ping Protection will be assumed to be in Up state.

Remedy

This is a notification of an internal error or limit reached. Check Release Notes to see if a supported limit has been exceeded. Use CLI command "show iproute {ipv4|ipv6} protection ping" to see current list of gateways with ICMP Ping Protection.

Severity

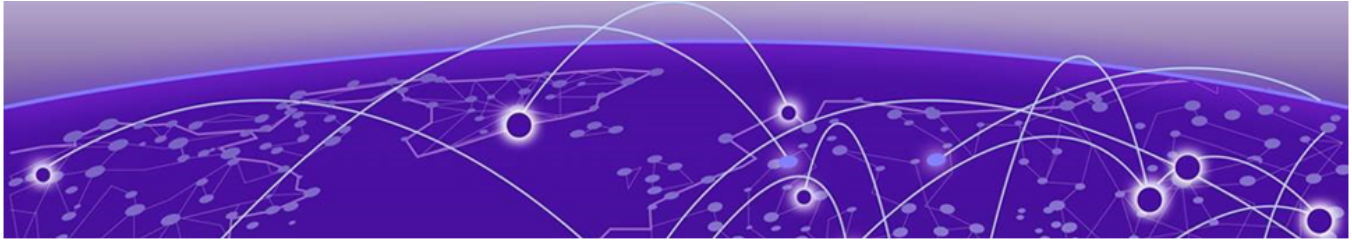
Warning

Message Text

`%vrName%`: Ping protection failed to start on gateway IP `%gwIPaddr%`. Reason: `%reason%`. Gateway assumed to be up.

Message Parameters

Name	Type
vrName	String
gwIPaddr	String
reason	String



RtMgr.Server Messages

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RtMgr.Server.ProcRegClntMsgOK

Description

An application client has registered with Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processed Registered Client Message for `%client%` / `%VRFClnt%` for `%NewRExist%` with flag `%flag%` sucessfully.

Message Parameters

Name	Type
client	String
VRFClnt	String

Name	Type
NewRExist	String
flag	xInt

RtMgr.Server.LkupClntFail

Description

A client lookup failed in Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Lookup for Client `%client%` Failed.

Message Parameters

Name	Type
client	String

RtMgr.Server.CnctClntDown

Description

IPML connection to a client is broken.

Remedy

It is not be an issue, but may be of interest to a developer.

Severity

Debug-Summary

Message Text

Connection to Client `%client%` Down.

Message Parameters

Name	Type
client	String

RtMgr.Server.RecvMsgSiz

Description

Received a client Message.

Remedy

Not an issue. So no remedy.

Severity

Debug-Summary

Message Text

Received Message of size=`%size%` from Client `%client%`.

Message Parameters

Name	Type
size	uInt
client	uInt

RtMgr.Server.RecvMsgType

Description

Received a client Message.

Remedy

Not an issue. So no remedy.

Severity

Debug-Summary

Message Text

Received message of type `%msg%` from Client `%client%` with flags=`%flags%`.

Message Parameters

Name	Type
msg	String
client	String
flags	String

RtMgr.Server.ProcUnregClntMsgFail

Description

A client process unregister failed in Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

UnRegister of Client `%client%` failed as it can be located.

Message Parameters

Name	Type
client	String

RtMgr.Server.ProcUnregClntMsgOK

Description

An application client has unregistered with Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Unregistered client `%client%` / `%VRFClnt%`

Message Parameters

Name	Type
client	String
VRFClnt	String

RtMgr.Server.ProcSetPurgTimerMsgFail

Description

A client set purge timeout failed in Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Set purge timer value for Client `%client%` failed, as it can be located.

Message Parameters

Name	Type
client	String

RtMgr.Server.ProcSetPurgTimerMsgOK

Description

An application client has set purge timeout with Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Set Purge Timer Value for client `%client%` to `%tout%`

Message Parameters

Name	Type
client	String
tout	uInt

RtMgr.Server.ProcGetPurgTimerMsgFail

Description

A client get purge timeout failed in Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Processing Get purge timeout Msg for Client `%client%` failed, as it can be located.

Message Parameters

Name	Type
client	String

RtMgr.Server.ProcGetPurgTimerMsgOK

Description

An application client got purge timeout from Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Get Purge Timeout Msg for client `%client%` succeded with timer value=`%tout%` remaining time=`%trem%`

Message Parameters

Name	Type
client	String
tout	uInt
trem	uInt

RtMgr.Server.ProcClrPurgTimerMsgFail

Description

A client cancel purge timeout failed in Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Clear purge timer value for Client `%client%` failed, as it cannot be located.

Message Parameters

Name	Type
client	String

RtMgr.Server.ProcClrPurgimertMsgOK

Description

An application client cancelled purge timeout from Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Cleared Purge Timer value for client `%client%`

Message Parameters

Name	Type
client	String

RtMgr.Server.RecvOSPFEndUpdtMsgOK

Description

An application client sent OSPF_END_UPDATE msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Message OSPF End Update for Client `%client%` af=`%af%` vrid=`%vrid%` level=`%level%` aid=`%aid%`

Message Parameters

Name	Type
client	String
af	String
vrid	sInt32
level	sInt32
aid	uInt

RtMgr.Server.PurgOSPFRtOK

Description

purging route due to receiving OSPF_END_UPDATE .

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Purged `%total%` OSPF routes from client=`%client%` time=`%time%`

Message Parameters

Name	Type
total	uInt
client	String
time	uInt

RtMgr.Server.RecvEndUpdtMsgOK

Description

An application client sent END_UPDATE msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Message End Update for Client `%client%` af=`%af%` vrid=`%vrid%` ttl=`%ttl%` protocol=`%prot%`

Message Parameters

Name	Type
client	String
af	String
vrid	sInt32
ttl	sInt32
prot	String

RtMgr.Server.PurgVRRtOK

Description

purging route due to receiving END_UPDATE .

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Purged `%total%` routes from client=`%client%` time=`%time%` for VR `%vrid%`

Message Parameters

Name	Type
total	uInt
client	String
time	uInt
vrid	uInt

RtMgr.Server.ProcAddVRMsgOK

Description

An application client sent ADD VR msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processed Message Add VR for Client `%client%` vrid=`%vrid%` successfully.

Message Parameters

Name	Type
client	String
vrid	sInt32

RtMgr.Server.ProcDelVRMsgOK

Description

An application client sent Del VR msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processed Del VR message for Client `%client%` vrid=`%vrid%` successfully.

Message Parameters

Name	Type
client	String
vrid	sInt32

RtMgr.Server.ProcAddRtMsgOK

Description

An application client sent Add rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processed Add Rt for `%rt%` from Client `%client%` successfully.

Message Parameters

Name	Type
rt	String
client	String

RtMgr.Server.RecvReplRtMsgOK

Description

An application client sent replace rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Replace Rt Message for `%rt%` from Client `%client%` successfully.

Message Parameters

Name	Type
rt	String
client	String

RtMgr.Server.RecvReplRtMsg

Description

Number of route replaces sent by application client to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Replace Rt request from Client `%client%` it has `%cnt%` routes in it.

Message Parameters

Name	Type
client	String
cnt	uInt

RtMgr.Server.ProcRegPfxMsgOK

Description

An application client sent reg prefix msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Reister Prefix request for `%pfx%` from Client `%client%` succeded

Message Parameters

Name	Type
pfx	String
client	String

RtMgr.Server.ProcUnregPfxMsgOK

Description

An application client sent unreg prefix msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing UnRegister Prefix request for `%pfx%` from Client `%client%` succeded

Message Parameters

Name	Type
pfx	String
client	String

RtMgr.Server.ProcRegPfxMsgFail

Description

Procesing of register prefix message failed.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Processing of Register prefix `%pfx%` for Client `%client%` failed, status=`%status%`

Message Parameters

Name	Type
pfx	String
client	String
status	String

RtMgr.Server.ProcUnregPfxMsgFail

Description

Procesing of unregister prefix message failed.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Processing of Unregister prefix `%pfx%` for Client `%client%` failed, status=`%status%`

Message Parameters

Name	Type
pfx	String
client	String
status	String

RtMgr.Server.ProcRegPfxTrkMsgOK

Description

An application client sent reg prefix Track msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Register Prefix Track request for `%pfx%` from Client `%client%` succeded

Message Parameters

Name	Type
pfx	String
client	String

RtMgr.Server.ProcUnregPfxTrkMsgOK

Description

An application client sent unreg prefix track msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of UnRegister Prefix Track request for `%pfx%` from Client `%client%` succeded

Message Parameters

Name	Type
pfx	String
client	String

RtMgr.Server.ProcRegPfxTrkMsgFail

Description

Procesing of register prefix track message failed.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Processing of Register prefix Track `%pfx%` for Client `%client%` failed, status=`%status%`

Message Parameters

Name	Type
pfx	String
client	String
status	String

RtMgr.Server.ProcUnregPfxTrkMsgFail

Description

Procesing of unregister prefix track message failed.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Processing of Unregister prefix `%pfx%` for Client `%client%` failed, status=`%status%`

Message Parameters

Name	Type
pfx	String
client	String
status	String

RtMgr.Server.ProcUnregAllPfxMsgOK

Description

An application client sent unreg prefix track msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of UnRegister all Prefix request from Client `%client%` succeded

Message Parameters

Name	Type
client	String

RtMgr.Server.ProcUpdtRtMsgOK

Description

An application client sent update rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Update Rt request for `%rt%` from Client `%client%` succeded

Message Parameters

Name	Type
rt	String
client	String

RtMgr.Server.ProcDelRtMsgOK

Description

An application client sent delete rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Delete Rt request for `%rt%` from Client `%client%` succeded

Message Parameters

Name	Type
rt	String
client	String

RtMgr.Server.ProcGetProtoPrioMsgOK

Description

An application client sent delete rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Get Protocol Priority request for `%prio%` from Client `%client%` succeded.

Message Parameters

Name	Type
prio	String
client	String
status	String

RtMgr.Server.ProcLkupRtMsgOK

Description

An application client sent lookup rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Lookup Rt request for `%rt%` from Client `%client%` succeded result=`%lkupRt%` succeded.

Message Parameters

Name	Type
rt	String
client	String
lkupRt	String

RtMgr.Server.ProcLkupRtMsgFail

Description

An application client sent lookup rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Lookup Rt request for `%rt%` from Client `%client%` failed.

Message Parameters

Name	Type
rt	String
client	String

RtMgr.Server.ProcLkupRPFRtMsgOK

Description

An application client sent rpf lookup rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Rpf lookup Rt request for `%rt%` from Client `%client%` succeded result=`%lkupRt%` succeded.

Message Parameters

Name	Type
rt	String
client	String
lkupRt	String

RtMgr.Server.ProcLkupRPFRtMsgFail

Description

An application client sent rpf lookup rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Rpf lookup Rt request for `%rt%` from Client `%client%` failed.

Message Parameters

Name	Type
rt	String
client	String

RtMgr.Server.ProcGetRtMsgOK

Description

An application client sent get rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Get Rt request for `%rt%` and flags=`%flag%` from Client `%client%` succeded result=`%lkupRt%`

Message Parameters

Name	Type
rt	String
client	String
flag	String
lkupRt	String

RtMgr.Server.ProcGetRtMsgFail

Description

An application client sent lookup rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processed get Rt request for `%rt%` from Client `%client%` failed.

Message Parameters

Name	Type
rt	String
client	String

RtMgr.Server.RecvGetBulkMsgRtOK

Description

An application client sent get bulk rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Message Get bulk Rt for `%rt%` from Client `%client%` with flags=`%flags%`

Message Parameters

Name	Type
rt	String
client	String
flags	String

RtMgr.Server.ProcGetBulkRtMsgOK

Description

An application client sent bulk get rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Get Bulk Rt for Client `%client%` succeded.

Message Parameters

Name	Type
client	String
rt	String

RtMgr.Server.RecvLkupOSPFNhMsgOK

Description

An application client sent lookup ospf nexthop msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received lookup ospf nexthop request for `%rt%` from Client `%client%`

Message Parameters

Name	Type
rt	String
client	String

RtMgr.Server.ProcLkupOSPFNhMsgOK

Description

An application client sent lookup ospf nexthop msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processsed lookup ospf nexthop result for Client `%client%` result=`%rt%` successfully

Message Parameters

Name	Type
client	String
rt	String

RtMgr.Server.RecvLPMLkupMsgOK

Description

An application client sent lpm lookup msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received LPM lookup request for key=`%key%` from Client `%client%`

Message Parameters

Name	Type
key	String
client	String

RtMgr.Server.ProcLPMLkupMsgOK

Description

Result for LPM lookup returned from Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Sending LPM lookup result `%n%` of `%cnt%` for Client `%client%` result=`%rt%` succeded.

Message Parameters

Name	Type
n	sInt32
cnt	sInt32
client	String
rt	String

RtMgr.Server.RecvBulkDelRtMsgOK

Description

An application client sent Bulk delete msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Bulk delete request for rt=`%rt%` from Client `%client%` with flags=`%flags%`

Message Parameters

Name	Type
rt	String
client	String
flags	String

RtMgr.Server.RecvRtTrvrsMsgOK

Description

An application client sent Route Traverse msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Route Traverse Msg for `%rt%` from Client `%client%` with flags=`%flags%`

Message Parameters

Name	Type
rt	String
client	String
flags	String

RtMgr.Server.ProcRtTrvrsMsgOK

Description

An application client sent Route Traverse msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processed Route Traverse Message Msg for Client `%client%` result=`%rt%`

Message Parameters

Name	Type
client	String
rt	String

RtMgr.Server.RecvRtNtfyMsgOK

Description

An application client sent Route Notify msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Route Notify request for `%rt%` from Client `%client%` with flags=`%flags%`

Message Parameters

Name	Type
rt	String
client	String
flags	String

RtMgr.Server.ProcRtNtfyMsgOK

Description

An application client sent Route Notify msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processed Route Notify result for Client `%client%` result=`%rt%`

Message Parameters

Name	Type
client	String
rt	String

RtMgr.Server.ProcRtNtfyNexthop

Description

An application client sent Route Notify msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processed Route Notify `%nh%`

Message Parameters

Name	Type
nh	String

RtMgr.Server.RecvAddLSPMsgOK

Description

An application client sent Add LSP msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Add LSP request for lsp=`%lsp%` from Client `%client%`

Message Parameters

Name	Type
lsp	String
client	String

RtMgr.Server.RecvDelLSPMsgOK

Description

An application client sent Del LSP msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Del LSP request for lsp=`%lsp%` from Client `%client%`

Message Parameters

Name	Type
lsp	String
client	String

RtMgr.Server.RecvUpdtLSPMsgOK

Description

An application client sent Update LSP msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Update LSP request for lsp=`%lsp%` from Client `%client%`

Message Parameters

Name	Type
lsp	String
client	String

RtMgr.Server.RecvAddLSPFECMsgOK

Description

An application client sent Add LSP FEC msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Add LSP FEC request for fec=`%fec%` from Client `%client%`

Message Parameters

Name	Type
fec	String
client	String

RtMgr.Server.RecvDelLSPFECMsgOK

Description

An application client sent Del LSP FEC msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Del LSP FEC request for fec=`%fec%` from Client `%client%`

Message Parameters

Name	Type
fec	String
client	String

RtMgr.Server.RecvUpdtLSPFECMsgOK

Description

An application client sent Update LSP FEC msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Update LSP FEC request for fec=`%fec%` from Client `%client%`

Message Parameters

Name	Type
fec	String
client	String

RtMgr.Server.RecvUpdtLSPFECNexthop

Description

An application client sent Update LSP FEC msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Update LSP FEC request with `%fec%`

Message Parameters

Name	Type
fec	String

RtMgr.Server.RecvUpdtLSPDPMMsgOK

Description

An application client sent Update LSP DPM msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Update LSP DPM Msg from Client `%client%` for nh DPM=`%dpm%`

Message Parameters

Name	Type
client	String
dpm	String

RtMgr.Server.RecvFlushVRLSPMsgOK

Description

An application client sent FLush VR LSPs msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received FLush VR LSPs request from Client `%client%` for vr=`%vr%`

Message Parameters

Name	Type
client	String
vr	sInt32

RtMgr.Server.RecvMsgTypeInv

Description

Procesing of client message failed.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Received Message type `%type%` for Client `%client%` is an invalid type.

Message Parameters

Name	Type
type	sInt32
client	String

RtMgr.Server.RecvExprtMsg

Description

Received a client Notification Message.

Remedy

Not an issue. So no remedy.

Severity

Debug-Summary

Message Text

Received route export related message `%msg%` from Client `%client%` with flags=`%flags%`.

Message Parameters

Name	Type
msg	String
client	String
flags	String

RtMgr.Server.RecvRegExprtMsgOK

Description

An application client has notify registered with Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Register Export Message from client `%client%` / `%VRFClnt%` with regInfo=`%reginfo%`

Message Parameters

Name	Type
client	String
VRFClnt	String
reginfo	String

RtMgr.Server.RecvRegExprtMsgFail

Description

A client process unregister notif failed in Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Cannot Register client/Client `%client%` / `%VRFClnt%` because `%fstr%`.

Message Parameters

Name	Type
client	String
VRFClnt	String
fstr	String

RtMgr.Server.RecvUpdtExprtMsgOK

Description

An application client has sent reg export msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Update Export Message from client `%client%` / `%VRFClnt%` with regInfo=`%reginfo%`

Message Parameters

Name	Type
client	String
VRFClnt	String
reginfo	String

RtMgr.Server.RecvUpdtExprtMsgFail

Description

A client process reg export failed in Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Cannot Register Export Bits for client `%client%` / `%VRFClnt%` because `%fstr%`.

Message Parameters

Name	Type
client	String
VRFClnt	String
fstr	String

RtMgr.Server.RecvUnRegExprtMsgOK

Description

An application client has sent notify unregister to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Unregister Export Msg from client `%client%` / `%VRFClnt%`

Message Parameters

Name	Type
client	String
VRFClnt	String

RtMgr.Server.RecvExprtMsgFail

Description

A Notify receive failed in Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Receiving of Notify Message failed for `%client%` , possible that connection was lost as process went down.

Message Parameters

Name	Type
client	uInt

RtMgr.Server.ProcRegClntMsgFail

Description

An application client registered with Route Manager failed.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Registered Client `%client%` / `%VRFClnt%` failed because of alloc.

Message Parameters

Name	Type
client	String
VRFClnt	String

RtMgr.Server.ProcAddVRMsgFail

Description

An application client sent ADD VR msg to Route Manager and it failed.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Processing of Add VR for Client `%client%` vrid=`%vrid%` failed as Route table create failed .

Message Parameters

Name	Type
client	String
vrid	uInt32

RtMgr.Server.ProcDelVRMsgFail

Description

An application client sent ADD VR msg to Route Manager and it failed.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Processing of Del VR for Client `%client%` vrid=`%vrid%` failed as Route table Delete failed err status=`%status%`.

Message Parameters

Name	Type
client	String
vrid	sInt32
status	String

RtMgr.Server.ProcAddRtMsgFail

Description

An application client sent ADD VR msg to Route Manager and it failed.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Processing of Add Rt for `%rt%` from Client `%client%` failed as Lock table or Route insert failed err status=`%status%`.

Message Parameters

Name	Type
rt	String
client	String
status	String

RtMgr.Server.ProcReplRtMsgOK

Description

An application client sent replace rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Replace Rt request for `%rt%` from Client `%client%` succeded

Message Parameters

Name	Type
rt	String
client	String

RtMgr.Server.ProcReplRtMsgFail

Description

An application client sent replace rt msg to Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Debug-Summary

Message Text

Processing of Replace Rt request for `%rt%` from Client `%client%` failed because either Lock table or replace route failed err status=`%status%`.

Message Parameters

Name	Type
rt	String
client	String
status	String

RtMgr.Server.ProcUnregAllPfxMsgFail

Description

An application client sent unreg prefix track msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Info

Message Text

Processing of UnRegister all Prefix request from Client `%client%` failed err status=`%status%`.

Message Parameters

Name	Type
client	String
status	String

RtMgr.Server.ProcUpdtRtMsgFail

Description

An application client sent update rt msg to Route Manager.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Info

Message Text

Processing of Update Rt request for `%rt%` from Client `%client%` failed, status=`%status%`

Message Parameters

Name	Type
rt	String
client	String
status	String

RtMgr.Server.ProcDelRtMsgFail

Description

An application client sent delete rt msg to Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Debug-Summary

Message Text

Processing of Delete Rt request for `%rt%` from Client `%client%` failed, status=`%status%`

Message Parameters

Name	Type
rt	String
client	String
status	String

RtMgr.Server.ProcGetProtoPrioMsgFail

Description

An application client sent delete rt msg to Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Info

Message Text

Processing of Get Protocol Priority request for `%prio%` from Client `%client%` failed, status=`%status%`

Message Parameters

Name	Type
prio	String
client	String
status	String

RtMgr.Server.RtXlateFailInvLSP

Description

Translation of message from Protocols failed as LSP is invalid.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Debug-Summary

Message Text

Route Translation Failed , for rt=`%rt%` LSP `%lsp%`

Message Parameters

Name	Type
lsp	uInt32
rt	String

RtMgr.Server.RecvL3VPNLbl

Description

An application client sent delete rt msg to Route Manager.

Remedy

It may not be an issue, but may be of interest to a developer.

Severity

Debug-Summary

Message Text

Processing of L3VPN Label request for VRF `%id%` from Client `%client%` - cmd=`%cmd%`, new=`%lnew%` old=`%lold%`

Message Parameters

Name	Type
client	String
id	sInt32
cmd	xInt32
lnew	xInt32
lold	xInt32

RtMgr.Server.SendLblMsg

Description

Sending VPN label message to a "client". "labelMsg" contains label message details like action, old label and new label.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Send Label Message to client `%client%` with labelMsg=`%lmsg%`

Message Parameters

Name	Type
client	String
lmsg	String

RtMgr.Server.NotSendLblMsg

Description

Not Sending VPN label message to a "client". "cause" contains reason like "Label Msg already sent".

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Not Sending Label Message to client `%client%` because `%cause%`

Message Parameters

Name	Type
client	String
cause	String

RtMgr.Server.SendRecurRtErrMsg

Description

Sending Recursive Route Error message to a "client". "rt" contains route details like prefix, nexthop and metric. Recursive route are formed when protocols like BGP try to add routes via BGP nexthops that are in in turn reachable by a BGP route.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Send Recusive Route Error Message to client `%client%` route=`%rt%`

Message Parameters

Name	Type
client	String
rt	String

RtMgr.Server.ProcUpdateStart

Description

Used when route manager processes UpdateStart event for an application client %msg$: Information related to UpdateStart event processing. %client%: provides client name VR and VRF instance information

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

`%msg%` for application client `%client%`

Message Parameters

Name	Type
msg	String
client	String

RtMgr.Server.ProcUpdateEnd

Description

Used when route manager processes UpdateEnd event for an application client %msg$: Information related to UpdateEnd event processing. %client%: provides client name VR and VRF instance information

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

`%msg%` for application client `%client%`

Message Parameters

Name	Type
msg	String
client	String

RtMgr.Server.ProcPurgeTimer

Description

Used when route manager processes purge timer event for an application client %msg$: Information related to purge timer processing. %client%: provides client name VR and VRF instance information

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

`%msg%` for application client `%client%`

Message Parameters

Name	Type
msg	String
client	String

RtMgr.Server.ProcMplsNexthop

Description

Used when route manager processes mpls-nexthop event for an application client %msg$: Information related to enable/disbale nexthop. %client%: provides client name VR and VRF instance information

Remedy

Restart the client process OR reboot the system

Severity

Debug-Summary

Message Text

`%msg%` for application client `%client%`

Message Parameters

Name	Type
msg	String
client	String

RtMgr.Server.XCUpdateError

Description

A cross-connect update message was received, but there was an error in the message

Remedy

Send logs to Engineering.

Severity

Error

Message Text

Received bad XC update message in Route Manager. TLV Type: `%tlvType%`, TLV length: `%tlvLength%`

Message Parameters

Name	Type
tlvType	sInt
tlvLength	sInt

RtMgr.Server.MplsMibTrace

Description

MPLS L3 VPN MIB Tracing.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

RtMgr.Server.IpmlAllocFail

Description

Tried to allocate an IPML buffer, but ipmlAllocPacket returned NULL.

Remedy

Contact Engineering.

Severity

Error

Message Text

Failed to Alloc IPML buffer. Size=`%sz%`, type=`%type%`.

Message Parameters

Name	Type
type	sInt32
sz	sInt32

RtMgr.Server.NtfyIpmlQFull

Description

Notify Ipml queue is full. Notifications to clients may be lost.

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "upload debug". While it is not a serious system issue, protocol restart may be required for proper operation.

Severity

Warning

Message Text

Notify IPML queue full. clnt=`%clntid%`, ntfy peer-id=`%peerid%`.

Message Parameters

Name	Type
clntid	uInt32
peerid	uInt32

RtMgr.Server.RecvReplRtMsgIgn

Description

Ignoreed a replace route message sent by application client to Route Manager since client is no longer registered.

Remedy

There is no remedy because there is no problem to be resolved

Severity

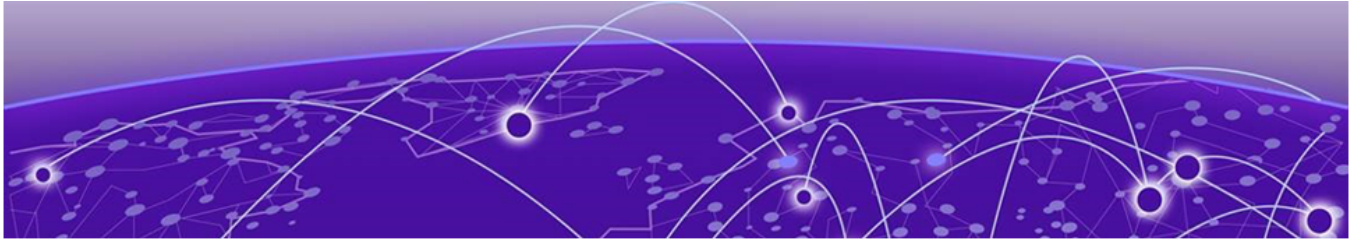
Debug-Summary

Message Text

Ignore received Replace Rt Message for `%rt%` from Client `%client%`.

Message Parameters

Name	Type
rt	String
client	String



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RtMgr.Table.FreeGwFail

Description

Freeing of gw did not happen

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Freeing of Gateway failed for gw=(`%gw%`) as gw refcnt is not zero VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String

RtMgr.Table.LkupGwAlloc

Description

Lookup of gw resulted in gw create

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup of Gateway resulted in `%gw%` being created. VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String

RtMgr.Table.ProcGwSetOK

Description

Processing of gw succeeded

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Gateway set of `%gw%` for rt `%dest%` succeeded. VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String
dest	String

RtMgr.Table.ProcGwSetFail

Description

Processing of gw failed

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Gateway set of %gw% for rt %dest% Failed as gw lookup failed. VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
gw	String
dest	String

RtMgr.Table.ProcGwResetOK

Description

Processing of gw succeeded

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of Gateway Reset of %gw% for rt %dest% succeeded. VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
gw	String
dest	String

RtMgr.Table.LkupGwFail

Description

Lookup failed for gateway

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup of Gateway failed for `%gw%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String

RtMgr.Table.CreatGwFail

Description

Creation of gw did not happen

Remedy

Requires developer internvention to resolve the issue

Severity

Info

Message Text

Creation of Gateway failed for `%gw%` as memory allocation failed VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String

RtMgr.Table.CreatGwOK

Description

Created Gateway successfully

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Created Gateway `%gw%` successful VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String

RtMgr.Table.UnregGwPfx

Description

Unregistered Gateway Prefix successfully

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Unregistered Gateway Prefix `%pfx%` for `%gw%` successful VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
pfx	IPaddressN
gw	String

RtMgr.Table.AttachTunGwToRt

Description

Attached Tunnel Gateway successfully

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Attached Tunnel Gateway `%gw%` To route `%dest%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String
dest	String

RtMgr.Table.DetachTunGwFromRt

Description

Detached Tunnel Gateway successfully

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Detached Tunnel Gateway `%gw%` From route `%dest%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String
dest	String

RtMgr.Table.AttachTunGwToIf

Description

Attached Tunnel Gateway successfully

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Attached Tunnel Gateway `%gw%` To Interface `%iface%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String
iface	String

RtMgr.Table.DetachTunGwFromIf

Description

Detached Tunnel Gateway successfully

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Detached Tunnel Gateway `%gw%` From Interface `%iface%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String
iface	String

RtMgr.Table.BldNtfyRtAddMsg

Description

Notifying Route Add

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notifying Route Add of route `%rt%` to client (`%clnt%`); isBestUni=`%isBestUni%` isBestMulti=`%isBestMulti%` isNewPrefix=`%isNewPrefix%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
clnt	String
isBestUni	uInt32
isBestMulti	uInt32
isNewPrefix	uInt32

RtMgr.Table.BldNtfyRtAddMsgDone

Description

Notifying Route Add Message ready

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notifying Route Add message is ready Best Uni rt=(`%rt%`) best multi rt=(`%rt1%`); numOfnotifDeletedInfo=`%ndel%` newUni=`%newUni%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
rt1	String
ndel	uInt32
newUni	String

RtMgr.Table.NtfyBestUniRtAdd

Description

Notifying Route Add Routes

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notified Best Unicast Route Add are rt=(`%rt%`) del rt=(`%rt1%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
rt1	String

RtMgr.Table.NtfyBestMcastRtAdd

Description

Notifying Route Add Routes

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notified Best Multicast Route Add are rt=(`%rt%`) del rt=(`%rt1%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
rt1	String

RtMgr.Table.NtfyRtDel

Description

Notifying Route Add

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notifying Route del of route `%rt%` to client `%clnt%`; isBestUni=`%isBestUni%` isBestMulti=`%isBestMulti%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
clnt	String
isBestUni	uInt32
isBestMulti	uInt32

RtMgr.Table.NtfyRtDelRdy

Description

Notifying Route del Message ready

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notifying Route Del message is ready Best Uni rt=(`%rt%`) best multi rt=(`%rt1%`); numOfnotifDeletedInfo=`%ndel%` expFlags=`%expFlags%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
rt1	String
ndel	uInt32
expFlags	String

RtMgr.Table.NtfyBestUniRtDel

Description

Notifying Route del Routes

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notified Best Unicast Route for route del are rt=(`%rt%`) del rt=(`%rt1%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
rt1	String

RtMgr.Table.NtfyBestMcastRtDel

Description

Notifying Route del Routes

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notified Best Multicast Route for route del are rt=(`%rt%`) del rt=(`%rt1%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
rt1	String

RtMgr.Table.ProcNtfyRtReplEvent

Description

Notifying Route Replace

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Notify Route Replace Event for route Node %rt% to client %clnt%; numAdded=%numAdded% numDeleted=%numDeleted% isNewPrefix=%isNewPrefix% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String
clnt	String
numAdded	uInt32
numDeleted	uInt32
isNewPrefix	uInt32

RtMgr.Table.NtfyRtDelDueToRtRepl

Description

Notifying Route Del due to Route replace event

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notifed Route Del due to Route Replace event Uni rt=(%rt%) mcast rt=(%rt1%); VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String
rt1	String

RtMgr.Table.NtfyRtAddDueToRtRepl

Description

Notifying Route Add Routes

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notified Route Add due to Route Replace Event uni rt=(`%rt%`) Mcast rt=(`%rt1%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
rt1	String

RtMgr.Table.NtfyRtReplExprtFlag

Description

Notifying Route Add Routes

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notify Route Replace Export flags for rt =%rt% are numOfnotifDeletedInfo=%ndel% expFlag=%expFlag% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String
ndel	uInt32
expFlag	uInt32

RtMgr.Table.NtfyRtReplUpdtFlag

Description

Notifying Route Add Routes

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notify Route Replace Update flags for rt =%rt% are hwUpdt=%hwUpdate% updtUNotif=%updtUni% updtMNotif=%updtMcast% expFlag=%expFlag% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String
hwUpdate	uInt32
updtUni	uInt32

Name	Type
updtMcast	uInt32
expFlag	uInt32

RtMgr.Table.ProcLkupAutoTun

Description

Processing Lookup Auto tunnel

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Lookup Auto Tunnel for ipaddr=`%ipaddr%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
ipaddr	String

RtMgr.Table.Lkup6To4TunInv

Description

Processing Lookup 6To4 tunnel

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup 6to4 Tunnel Invalid ipaddr=`%ipaddr%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
ipaddr	String

RtMgr.Table.Lkup6To4TunFail

Description

Processing Lookup 6To4 tunnel

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup 6to4 Tunnel Failed for ipaddr=`%ipaddr%` because table->auto6to4Tunnel==NULL VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
ipaddr	String

RtMgr.Table.ProcLkup6To4Tun

Description

Processing Lookup 6To4 tunnel

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Lookup of 6to4 Tunnel for ipaddr=`%ipaddr%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
ipaddr	String

RtMgr.Table.ProcInsRtEnt

Description

Processing Insert Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Insert Route entry for rt=(`%rt%`) gw=(`%gw%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
gw	String

RtMgr.Table.InsRtEntSetFlagDown

Description

Processing Insert Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Insert Route Entry Set Flag down for rt=(`%rt%`) as outIf is not found VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.InsRtEntFail

Description

Processing Insert Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Insert Route Entry Failed for rt=(`%rt%`) as outIf is not found VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ProcInsTunEnt

Description

Processing Insert Tun

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Insert Tunnel entry for rt=(`%rt%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ProcDelTunEnt

Description

Processing Del Tun

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Del Tunnel entry for rt=(`%rt%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ProcLkupTunEnt

Description

Processing Lookup Tun

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Lookup Tunnel entry for rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.RecvReplRtEnt

Description

Processing Route Replace Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Route Replace Entry with numPath=`%numPath%` more=`%more%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
numPath	uInt32
more	uInt32

RtMgr.Table.ProcReplRtEnt

Description

Processing Route Replace Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Route Replace entry for rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.RtReplFailNoLSP

Description

Processing Route Replace Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Route Replace Failed no Lsp for ifIndex=`%ifIndex%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
ifIndex	uInt32
rt	String

RtMgr.Table.ReplRtEntSetFlagDown

Description

Processing Route Replace Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route Entry Set Flag down for rt=`%rt%` as outIf is not found VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ReplRtEntFail

Description

Processing Route Replace Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route Entry Failed for rt=`%rt%` as outIf is not found VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.LkupRtEnt

Description

Processing Route Lookup Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup Route Entry for dest=`%dest%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
dest	String

RtMgr.Table.LkupRtEntFail

Description

Processing Route Lookup Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup Route Entry Failed for dest=`%dest%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
dest	String

RtMgr.Table.LkupRtEntOK

Description

Processing Route Lookup Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup Route Entry succeded with rt=%rt% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.LkupCIDREnt

Description

Processing CIDR Lookup Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup CIDR Entry for dest=%dest% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
dest	String

RtMgr.Table.LkupCIDREntFail

Description

Processing CIDR Lookup Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup CIDR Entry Failed for dest=`%dest%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
dest	String

RtMgr.Table.LkupCIDREntOK

Description

Processing CIDR Lookup Entry

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup CIDR Entry succeded with rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.FndRt

Description

Processing Route Find

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Find Route for dest=%dest% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
dest	String

RtMgr.Table.FndRtFail

Description

Processing Route Find

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Find Route Failed for dest=%dest% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
dest	String

RtMgr.Table.FndRtOK

Description

Processing Route Find

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup Route Entry succeded with rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ProcDelRtEnt

Description

Processing Delete Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Delete Route entry for rt=(`%rt%`) gw=(`%gw%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
gw	String

RtMgr.Table.CreatRtTbl

Description

Processing Rt Table Create

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Created Route Table for VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR

RtMgr.Table.DelRtTbl

Description

Processing Rt Table Deleted

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Route Table Deleted for VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR

RtMgr.Table.SyncRtDown

Description

Processing Rt Sync down

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Synched Route Down for rt=`%rt%` reason=`%reason%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
reason	String

RtMgr.Table.DelRtEntFail

Description

Processing Rt Delete

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Delete Route Entry Failed for rt=%rt% ; Route not found VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.DelRtEntOK

Description

Processing Rt Delete

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Delete Route Entry Succeded for rt=%rt% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ReplRtFail

Description

Processing Replace Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route Failed for rt=`%rt%` ; Nexthop zero VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ReplRtNoAdd

Description

Processing Replace Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route for rt=`%rt%` resulted with no route to be added VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ReplRtAdd

Description

Processing Replace Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route for rt=`%rt%` resulted in route to be added VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ReplRtExist

Description

Processing Replace Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route for rt=`%rt%` resuled in trying to add existing route VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.RtReplCnt

Description

Processing Replace Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route resulted in add of `%add%` rts and del of `%del%` rts VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
add	uInt32
del	uInt32

RtMgr.Table.RtReplNoPrevBestRt

Description

Processing Replace Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route and No Previous Best `%type%` Route VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
type	String

RtMgr.Table.RtReplNtfyDelRt

Description

Processing Replace Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route resulted in Notifying `%cnt%` routes first of which is `%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
cnt	uInt32
rt	String

RtMgr.Table.RtReplFreeRt

Description

Processing Replace Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route resulted in rt[%cnt%]=%rt% getting freed VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
cnt	uInt32
rt	String

RtMgr.Table.SyncRtUp

Description

Processing Rt Sync

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Synched Route rt=%rt% becuase of %res% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String
res	String

RtMgr.Table.InsRtAddNewRtNode

Description

Processing Add Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Insert Route resulted in adding New Route Node for rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.AddRtEntExist

Description

Processing Add Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Adding rt=`%rt%` that exists VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.AddRtEntOK

Description

Processing Add Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Add of Route entry rt=`%rt%` succedded VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.SyncIfDown

Description

Processing Synched If down

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Synced Interface Down if=%ifname% ifRem=%ifRem% lAddr=%lAddr%/%mask% preCnt=%preCnt% Cnt=%cnt% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
ifname	String
ifRem	uInt32
lAddr	String
mask	uInt32
preCnt	uInt32
cnt	uInt32

RtMgr.Table.RerouteTunl

Description

Processing reroute tunnel

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Reroute tunnel with ifIndex=%ifIndex% done and %cnt% routes were processed VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
ifIndex	uInt32
cnt	uInt32

RtMgr.Table.SyncIfUp

Description

Processing Synched If down

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Synced Interface Up ifIndex=`%ifIndex%` IAddr=`%lAddr%`/`%mask%` cStatic=`%cStatic%` cntDir=`%cntDir%` cntBootp=`%cntBootp%` cnt=`%cnt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
ifIndex	uInt32
IAddr	String
mask	uInt32
cStatic	uInt32
cntDir	uInt32
cntBootp	uInt32
cnt	uInt32

RtMgr.Table.SyncIfFwd

Description

Processing Synched If Forward

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Synced Interface Forwarding ifIndex=%ifIndex% Pfx=%pfx%/%mask% isMplsLsp=%isM% isOn=%isOn% cntMpls=%cntMpls% cStatic=%cStatic% cntBootp=%cntBootp% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
ifIndex	uInt32
pfx	String
mask	uInt32
isM	uInt32
isOn	uInt32
cntMpls	uInt32
cStatic	uInt32
cntBootp	uInt32

RtMgr.Table.SyncIfMTU

Description

Processing Synched If down

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Synced Interface MTU if=%ifname% reulted in processing of %cnt% of routes VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
ifname	String
cnt	uInt32

RtMgr.Table.InsStaticMcastRtTbl

Description

Processing Add Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Inserting Static Mcast Route rt=`%rt%` in Route table VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.InsStaticMcastRt

Description

Processing Add Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Insert Static Multicast rt=%rt% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.InsStaticMcastRtFail

Description

Processing Add Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Insert Static Multicast rt=%rt% failed as Nexthop is NULL VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.InsStaticMcastRtOK

Description

Processing Add Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Insert Static Multicast rt=%rt% Succeded VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.DelStaticMcastRtTbl

Description

Processing Del mcast Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Deleting Static Mcast Route rt=%rt% from Route table VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.DelStaticMcastRtOK

Description

Processing Del mcast Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Deleted Static Multicast rt=`%rt%` Successfully VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.DelStaticMcastRt

Description

Processing Del mcast Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Delete Static Multicast rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ProcIfUpStaticMcast

Description

Processing If UP

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Process Interface UP event for Static Multicast rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ProcIfUpStaticMcastFail

Description

Processing If up

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Procesing Interface up for Static Multicast rt=`%rt%` Failed as nexthop interface is null VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.PrevProcIfDownStMcast

Description

Processing If Down

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Previous Processing of If Down of ifIndex=`%ifIndex%` for Static Multicast rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
ifIndex	uInt32
rt	String

RtMgr.Table.ProcIfDownStaticMcast

Description

Processing If Down

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing of If Down of ifIndex=`%ifIndex%` for Static Multicast rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
ifIndex	uInt32
rt	String

RtMgr.Table.RegMcastSrcToTbl

Description

Processing register

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Register Multicast Source To Route Table clnt=`%clnt%` pfx=`%pfx%` pType=`%pType%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
clnt	String
pfx	String
pType	String

RtMgr.Table.RegMcastSrcOK

Description

Processing register

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Register Multicast Source To Table clnt=`%clnt%` pfx=`%pfx%` Succeded VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
clnt	String
pfx	String

RtMgr.Table.UnregMcastSrcFromTbl

Description

Processing register

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Unregister Multicast Source From Table clnt=`%clnt%` pfx=`%pfx%`/`%mask%` pType=`%pType%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
clnt	String
pfx	String
mask	uInt32
pType	String

RtMgr.Table.NtfyRPFRt

Description

Notifying RPF Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notifying RPF route to clnt=`%clnt%` for pfx=`%pfx%`/`%mask%` pType=`%pType%` rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
clnt	String
pfx	String
mask	uInt32
pType	String
rt	String

RtMgr.Table.LkupRPFBestRt

Description

Lookup RPF

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup RPF Best Route for pfx=`%pfx%`/`%mask%` pType=`%pType%` rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
pfx	String
mask	uInt32
pType	String
rt	String

RtMgr.Table.LkupRPFIgnBestRt

Description

Lookup RPF

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup RPF Ignore Best Route for pfx=`%pfx%`/`%mask%` as route is blackholed VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
pfx	String
mask	uInt32

RtMgr.Table.DecrGwCnt

Description

Decrement of gw succeeded

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Decrement of Gateway ref Count `%gw%` succeeded VR(F)=`%vrname%`.

Message Parameters

Name	Type
vrname	VR
gw	String

RtMgr.Table.LkupRPFBestRtOK

Description

Lookup RPF

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Lookup RPF Best Route for pfx=`%pfx%`/`%mask%` pType=`%pType%` rt=`%rt%` Succeded VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
pfx	String
mask	uInt32
pType	String
rt	String

RtMgr.Table.RegMcastSrc

Description

Processing register

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Register Multicast Source request From clnt=`%clnt%` for pfx=`%pfx%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
clnt	String
pfx	String

RtMgr.Table.UnregMcastSrc

Description

Processing register

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

UnRegister Multicast Source From clnt=`%clnt%` for pfx=`%pfx%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
clnt	String
pfx	String

RtMgr.Table.ProcMcastNtfy

Description

Processing mulitcast notify

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Multicast Notify for pfx=`%pfx%` ptype=`%pType%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
pfx	String
pType	String

RtMgr.Table.ProcMcastNtfyFail

Description

Processing mulitcast notify

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Multicast Notify Failed for pfx=`%pfx%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
pfx	String

RtMgr.Table.ProcLkupRPFEnt

Description

Processing mulitcast notify

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Process Lookup RPF Entry for pfx=%pfx% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
pfx	String

RtMgr.Table.NtfyPfxRch

Description

A prefix reachability notification to a client

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% IP Prefix Reachable to client=%b% for Prefix=%c% via RTE=%d%

Message Parameters

Name	Type
a	VR
b	String
c	String
d	String

RtMgr.Table.NtfyPfxUnrch

Description

A prefix unreachability notification to a client

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% IP Prefix UnReachable to client=%b% for Prefix=%c%

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.NtfyPfxUpdtRch

Description

An updated prefix unreachability notification to a client

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% IP Prefix Reachable update to client=%b% for Prefix=%c%/%mask% (single=%d%, Tunnel-action=%e%) old RTE=%f% new RTE=%g%

Message Parameters

Name	Type
a	VR
b	String
c	String
mask	uInt32
d	sInt32
e	String
f	String
g	String

RtMgr.Table.NtfyPfxRepl

Description

A prefix reachability Replace notification to a client

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=`%a%` IP Prefix Reachable Replace to client=`%b%` for Prefix=`%c%` via RTE=`%d%`

Message Parameters

Name	Type
a	VR
b	String
c	String
d	String

RtMgr.Table.ProcInstIPfx

Description

A prefix reachability Node installation

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% IP Prefix Install for %b% and type=%c%

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.InstIPfxMatchRt

Description

A prefix reachability Node installation

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% IP Prefix Install for %b% matches a RTE=%c%

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.InstlPfxRemFromRtNode

Description

A prefix reachability Node installation

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=`%a%` IP Prefix `%c%` removed from `%b%` RTE node

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.ProcUninstlPfx

Description

A prefix deinstall from a Node

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% Deinstall IP Prefix from %b% RTE node for type %c%

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.UninstIPfxMatchRt

Description

A prefix deinstall from a Node and matching rte

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% Deinstall IP Prefix from %b% matching RTE=%c%

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.UninstIPfxAddToRtNode

Description

A prefix deinstall from a Node and matching rte

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% Deinstall IP Prefix %c%, add to %b%

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.UninstIPfxAddToRtTbl

Description

A prefix deinstall from a Node and becomes unresolved

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% Deinstall IP Prefix %c%, Become unresolved add to table

Message Parameters

Name	Type
a	VR
c	String

RtMgr.Table.ProcRegPfx

Description

A prefix is registered.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% Register IP Prefix %b%/%c%, client=%d% flags=%e% type=%f% createIfUp=%g%

Message Parameters

Name	Type
a	VR
b	String
c	sInt32
d	String
e	String
f	String
g	sInt32

RtMgr.Table.RegPfxMatchRt

Description

A prefix matched by a RTE

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% Register IP Prefix %b%, matching RTE=%c% lspRoute=%d%

Message Parameters

Name	Type
a	VR
b	String
c	String
d	String

RtMgr.Table.ProcUnregPfx

Description

A prefix is un-registered.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% Unregister IP Prefix %b%/%c%, client=%d% type=%e%

Message Parameters

Name	Type
a	VR
b	String

Name	Type
c	sInt32
d	String
e	String

RtMgr.Table.UnregPfxRemFromRtNode

Description

A prefix is un-registered.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=`%a%` Unregister IP Prefix `%b%`/`%c%`, node=`%d%`

Message Parameters

Name	Type
a	VR
b	String
c	sInt32
d	String

RtMgr.Table.ProcInstIPfxLSP

Description

An LSP is installed for IP prefixes.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% Install LSP %b% for IP Prefixes Ptype=%type%

Message Parameters

Name	Type
a	VR
type	String
b	String

RtMgr.Table.InstlLSPtoPfxBestRt

Description

An LSP is installed for IP prefixes.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% Install LSP as Best Route %b% for IP Prefixes toNotify=%toNotify%

Message Parameters

Name	Type
a	VR
b	String
toNotify	uInt32

RtMgr.Table.InstlLSPtoPfxNtfyClnt

Description

Notify LSP for IP prefixes.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=`%a%` Notify LSP as Best Route to `%b%`, flags=`%c%`

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.ProcUninstPfxLSP

Description

An LSP is uninstalled for IP prefixes.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=`%a%` UnInstall LSP `%b%` for IP Prefixes Ptype=`%type%`

Message Parameters

Name	Type
a	VR
type	String
b	String

RtMgr.Table.UninstlLSPtoPfxBestRt

Description

An LSP is uninstalled for IP prefixes.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=`%a%` uninstall LSP as Best Route `%b%` for IP Prefixes toNotify=`%toNotify%`

Message Parameters

Name	Type
a	VR
b	String
toNotify	uInt32

RtMgr.Table.UninstlLSPtoPfxNtfyClnt

Description

Notify LSP unInstall for IP prefixes.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% Notify LSP UnInstall to %b%, flags=%c%

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.IncrGwCnt

Description

Increment of gw succeeded

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Increment Gateway ref Count of %gw% succeeded VR(F)=%vrname%.

Message Parameters

Name	Type
vrname	VR
gw	String

RtMgr.Table.AttachGwToIf

Description

Attached Gateway successfully

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Attached Gateway `%gw%` To Interface `%iface%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String
iface	String

RtMgr.Table.DetachGwFromIf

Description

Detached Gateway successfully

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Detached Gateway `%gw%` From Interface `%iface%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String
iface	String

RtMgr.Table.ProcvLkupGw

Description

Processing Lookup Auto tunnel

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing Lookup Gateway for ipaddr=`%ipaddr%` isTunnel=`%isTun%` ifIndex=`%ifIndex%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
ipaddr	String
isTun	uInt32
ifIndex	uInt32

RtMgr.Table.ReplRtDelExp

Description

Processing Replace Rt

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route for rt=`%rt%` resuled in Deleting Expired route VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.RecvFlowMsg

Description

Received Flow message

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Recevived Flow Message `%msg%` from kernel resulted in rt=`%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
msg	String
rt	String

RtMgr.Table.RegPfxModFlg

Description

Protocol is re-registering the same IPA prefix with modified flags

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Existing Prefix %p% Flag (new=%n% old=%o%) Modified. VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
p	String
n	xInt
o	xInt

RtMgr.Table.AttachLSPToGw

Description

LSP is attached to a gateway

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Attach LSP to Gateway (%gw%) %a% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
gw	String
a	String

RtMgr.Table.FndRmtPELSPGw

Description

Find matching LSP for a L3VPN gateway

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Find Remote PE LSP Gateway (%gw%) VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
gw	String

RtMgr.Table.FndRmtPELSPGwFail

Description

Find matching LSP for a L3VPN gateway failed

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Find Remote PE LSP Gateway failed Reason=(%reason%) VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
reason	String

RtMgr.Table.FndRmtPELSPGwOK

Description

Find matching LSP for a L3VPN gateway

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Find Remote PE LSP Gateway succeded LspGw=(`%gw%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw	String

RtMgr.Table.FreeNHLFEInt

Description

Freeing NHLFE Instance for L3VPN GW

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Free NHLFE Instance -`%msg%` - Gw=(`%gw%`) freeInstance=`%f%` VR(F)=`%vrname%`

Message Parameters

Name	Type
gw	String
f	uInt32
msg	String
vrname	VR

RtMgr.Table.CreatNHLFEInt

Description

Create NHLFE Instance for a L3VPN gateway

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Create NHLFE Instance -`%msg%` - Gw=(`%gw%`) freeInstance=`%f%` VR(F)=`%vrname%`

Message Parameters

Name	Type
gw	String
f	uInt32
msg	String
vrname	VR

RtMgr.Table.ProcVPNPfxNtfn

Description

Process VPN prefix Notif

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Process VPN Prefix Notification pfx=%pfx%/%mask% reachable=%reach% rt=%rt% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
pfx	String
mask	uInt32
reach	uInt32
rt	String

RtMgr.Table.NotProcVPNPfxNtfnGw

Description

Not Processing VPN prefix Notif

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Not Processing VPN Prefix Notification for gw=(%gw%) reason=%res% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
gw	String
res	String

RtMgr.Table.ProcVPNNtfnGwMod

Description

Process VPN Notif Mod

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Process VPN Notification Gateway Modified VPN gw=(`%gw1%`), oldgw=(`%gw2%`) newgw=(`%gw3%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw1	String
gw2	String
gw3	String

RtMgr.Table.VPNPfxNtfnOK

Description

VPN Prefix Notification handled

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VPN Prefix Notification handled Succesfully #PfxGw=%n1% #GwProc=%n2% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
n1	uInt32
n2	uInt32

RtMgr.Table.CreatRtTblFail

Description

Create Route Table failed

Remedy

VLAN Library call failed for a VRF , Requires developer internvention to resolve the issue

Severity

Info

Message Text

Create Route Table Failed for vrId=%id%

Message Parameters

Name	Type
id	uInt32

RtMgr.Table.ProcIndrctGwPfxNtfn

Description

Process the prefix Notification for the prefix registered for a Indirect gateway (indirect because the gateway address is not on a directly connected VLAN). This notification indicates that in the VR "vrname" the "pfx"/"mask" was reachable (meaning a UP route exists). "reach"=1 indicates reachable and 0 indicates unreachable. "rt" indicates the route that resolved the prefix.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Process In Direct Gateway Prefix Notification pfx=%pfx%/%mask% reachable=%reach% rt=%rt% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
pfx	String
mask	uInt32
reach	uInt32
rt	String

RtMgr.Table.NotProcIndrctGwPfxNtfn

Description

Not Processing the prefix Notification for the prefix registered for a Indirect gateway The prefix was registered in "vrname" for the gateway "gw" . "res" indicates the reason for not processing. For e.g the reason could be "Reachable via same gw as before".

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Not Processing In Direct Gateway Prefix Notification for gw=(%gw%) reason=%res% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
gw	String
res	String

RtMgr.Table.ProcIndrctGwNtfnMod

Description

Processing the prefix Notification for the prefix registered for a Indirect gateway when the resolved gateway (nexthop) for the indirect gw has changed. "gw1" indicates the indirect gw, "gw2" indicates the previously resolved gateway and "gw3" the new gw. "vrname" indicates the VR in which the gw exist

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Process In Direct Gateway Notification Gateway Modified gw=(`%gw1%`), oldgw=(`%gw2%`) newgw=(`%gw3%`) VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
gw1	String
gw2	String
gw3	String

RtMgr.Table.ProcIndrctGwNtfnOK

Description

Processing the prefix Notification for the prefix registered for a Indirect gateway suceeded in VR "vrname. "oper" is the operation performed like LNH_RESOLVED and "n2" number of ECMP Nh after the processing.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processed In Direct Gateway Prefix Notification Succesfully Oper=`%oper%` #ECMPNh=`%n2%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
oper	String
n2	uInt32

RtMgr.Table.ProcIndrctGwSetFail

Description

Handling of In Direct Gateway Set failed in VR "vrname". This set happens when route add/replace is called by protocols via an indirect Gateway. The failure happened when the set was called for the indirect gateway "gw1". "err" indicates the reason for the failure like "Prefix registration failed".

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Handling In Direct Gateway set failed for gw=(%gw1%) err=%err% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
gw1	String
err	String

RtMgr.Table.NtfyClntOfLbl

Description

Notifying VPN label to all clients registered for the label message in VR "vrname". "msg" contains label message details like action, old label and new label.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notify Clinet of Label %msg% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
msg	String

RtMgr.Table.ReplRtRecurErr

Description

Trying to do route replace for route "rt" resulted in recursion error. Recursive route are formed when protocols like BGP try to add routes via BGP nexthops that are in in turn reachable by a BGP route. "rt" has route details like prefix, nexthop and metric. Route replace operation was attempted in VR "vrname".

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Replace Route resulted in Recusrion Error for route `%rt%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String

RtMgr.Table.ProcIndrctGwNtfnNotOK

Description

Processing the prefix Notification for the prefix registered for a Indirect gateway failed in VR "vrname. The "oper" operation to be performed is invalid.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Processing In Direct Gateway Prefix Notification Failed Oper=`%oper%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
oper	uInt32

RtMgr.Table.NtfyPfxTrckRch

Description

A prefix track reachability notification to a client

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% IP Prefix Track Reachable to client=%b% for Prefix=%c%

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.NtfyPfxTrckUnrch

Description

A prefix track unreachability notification to a client

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%a% IP Prefix UnReachable to client=%b% for Prefix=%c%

Message Parameters

Name	Type
a	VR
b	String
c	String

RtMgr.Table.NtfyLinkLocIPv6Rt

Description

A LinkLocal IPv6 route notification to a client

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=`%a%` IPv6 LinkLocal Permit=`%b%` to client=`%c%` for Prefix=`%d%`

Message Parameters

Name	Type
a	VR
b	String
c	String
d	String

RtMgr.Table.AddRtProtoAttr

Description

Protocol (usually BGP) attribute added to the route. rt is the route to which the attribute of type %attr% has been added.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Route Protocol Atrribute Added for route `%rt%` attr= `%attr%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
attr	uInt32

RtMgr.Table.DelRtProtoAttr

Description

Protocol (usually BGP) attribute deleted from the route. rt is the route to which the attribute of type %attr% has been deleted.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Route Protocol Atrribute Deleted from route `%rt%` attr= `%attr%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
attr	uInt32

RtMgr.Table.AllocRtProtoAttr

Description

Protocol (usually BGP) attributed allocted for the route. rt is the route to which the attribute of type %attr% has been allocated. Only when first time an attribute of a particular type is added to a route the attribute is allocated.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Route Protocol Atrribute Allocated for route `%rt%` attr= `%attr%` VR(F)=`%vrname%`

Message Parameters

Name	Type
vrname	VR
rt	String
attr	uInt32

RtMgr.Table.FreeRtProtoAttr

Description

Protocol (usually BGP) attribute freed from the route. rt is the route from which the attribute of type %attr% has been freed. When no more routes use the attribute the attribute will be freed.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Route Protocol Atrribute Deleted from route %rt% attr= %attr% VR(F)=%vrname%

Message Parameters

Name	Type
vrname	VR
rt	String
attr	uInt32

RtMgr.Table.NtfyClntRtAdd

Description

A route add notification was sent to a client. rt is the route and clnt is the client.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%vr% Notify Client (%clnt%) of Route Add (%rt%)

Message Parameters

Name	Type
vr	VR
clnt	String
rt	String

RtMgr.Table.NtfyClntRtDel

Description

A route delete notification was sent to a client. rt is the route and clnt is the client.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=%vr% Notify Client (%clnt%) of Route Delete (%rt%)

Message Parameters

Name	Type
vr	VR
clnt	String
rt	String

RtMgr.Table.SyncVrStateOK

Description

Synching of VR state was sucussefully completed. nrt is the number of routes synched.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

For VR(F)=%vr% Syncying of VR State to %state% succeeded Lock #of routes synched = (%nrt%)

Message Parameters

Name	Type
vr	VR
state	String
nrt	uInt32

RtMgr.Table.NtfyClntSelfRtAdd

Description

A route add notification was sent to a client. rt is the route and clnt is the client.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=`%vr%` Notify Client (`%clnt%`) of Route Add (`%rt%`)

Message Parameters

Name	Type
vr	VR
clnt	String
rt	String

RtMgr.Table.NtfyClntSelfRtDel

Description

A route delete notification was sent to a client. rt is the route and clnt is the client.

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

VR(F)=`%vr%` Notify Client (`%clnt%`) of Route Delete (`%rt%`)

Message Parameters

Name	Type
vr	VR
clnt	String
rt	String

RtMgr.Table.ClrUnrslvPfxRtNode

Description

Clearing the rtNode field in Unresolved prefix as the field did not get cleared during NotifyDelRoute. vr is the vr to which the prefix belongs and rt is the rtNode that prefix was referring.

Remedy

No action required Informational message only.

Severity

Debug-Summary

Message Text

VR(F)=`%vr%` Clearing Unresolved Prefix rtNode field for rtNode `%rt%` as unresolved prefix not deinstalled in NotifyDelRoute

Message Parameters

Name	Type
vr	VR
rt	String

RtMgr.Table.ClrRslvPfxRtNode

Description

Clearing the rtNode field in resolved prefix as the field did not get cleared during NotifyDelRoute. vr is the vr to which the prefix belongs and rt is the rtNode that prefix was referring.

Remedy

No action required Informational message only.

Severity

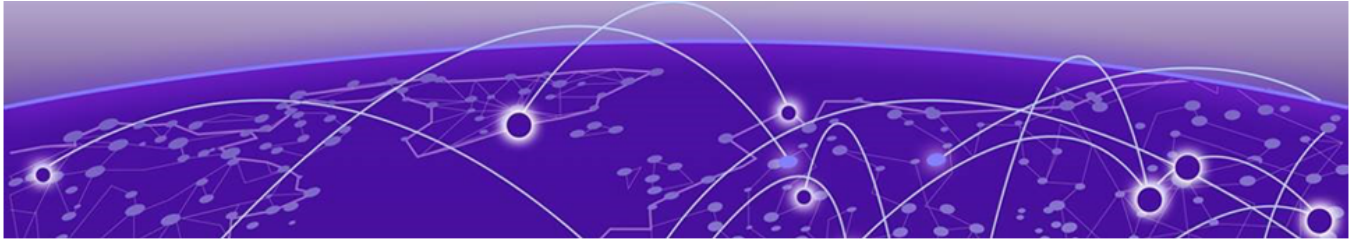
Debug-Summary

Message Text

VR(F)=`%vr%` Clearing Resolved Prefix rtNode field for rtNode `%rt%` as resolved prefix not deinstalled in NotifyDelRoute

Message Parameters

Name	Type
vr	VR
rt	String



RtMgr.VLAN Messages

RtMgr.VLAN.RecvMTUChgMsg on page 4842
RtMgr.VLAN.SendIRDP on page 4843
RtMgr.VLAN.NtfyTunUp on page 4844
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RtMgr.VLAN.RecvCfgTunlMsg on page 4846
RtMgr.VLAN.RecvRenameVLANMsg on page 4847
RtMgr.VLAN.RecvDelVLANMsg on page 4847
RtMgr.VLAN.RecvSetVLANStateMsg on page 4848
RtMgr.VLAN.RecvIfFwdStateChgMsg on page 4849
RtMgr.VLAN.RecvCreatVRMsg on page 4849
RtMgr.VLAN.RecvAddIPVLANMsg on page 4850
RtMgr.VLAN.RecvAddIPv6VLANMsg on page 4850
RtMgr.VLAN.RecvDelIPVLANMsg on page 4851
RtMgr.VLAN.RecvDelIPv6VLANMsg on page 4852
RtMgr.VLAN.RecvIPv6AddrStateMsg on page 4853
RtMgr.VLAN.RecvDelVRMsg on page 4853
RtMgr.VLAN.RecvAddVLANToVRMsg on page 4854
RtMgr.VLAN.RecvDelVLANToVRMsg on page 4854
RtMgr.VLAN.RecvSetVRIPFwdMsg on page 4855
RtMgr.VLAN.RecvSetIPFwdAllVRMsg on page 4856
RtMgr.VLAN.RecvSetVLANIPv6FwdMsg on page 4856
RtMgr.VLAN.RecvSetVRIPv6FwdMsg on page 4857
RtMgr.VLAN.RecvAddVLANInKern on page 4857
RtMgr.VLAN.RecvTunStateMsg on page 4858
RtMgr.VLAN.FndTblFail on page 4859
RtMgr.VLAN.SetL3VPNDetail on page 4859

RtMgr.VLAN.RecvMTUChgMsg

Description

MTU Change message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received MTU Change Message for VLAN `%name%` IfInst=`%IfInst%` mtu=`%mtu%`

Message Parameters

Name	Type
name	String
IfInst	xInt32
mtu	uInt32

RtMgr.VLAN.SendIRDP

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Send IRDP advertise message on vlan name=`%name%`, addr=`%addr%` new timer=`%timer%`

Message Parameters

Name	Type
name	String
addr	IP
timer	uInt

RtMgr.VLAN.NtfyTunUp

Description

Notify Tunnel state successfully

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notify Tunnel `%iface%` as UP

Message Parameters

Name	Type
iface	String

RtMgr.VLAN.NtfyTunDown

Description

Notify Tunnel state successfully

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Notify Tunnel `%iface%` as Down

Message Parameters

Name	Type
iface	String

RtMgr.VLAN.RecvCreatTunlMsg

Description

Create tunnel message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Create Tunnel Message for vr `%vrname%`/`%vrid%` tunnel `%tun%` inst=`%tunIfInst%` idx=`%tunIfIndex%` type=`%type%`

Message Parameters

Name	Type
vrname	String
vrid	uInt32
tun	String
tunIfInst	xInt32
tunIfIndex	xInt32
type	uInt32

RtMgr.VLAN.RecvDelTunlMsg

Description

Delete tunnel message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Delete Tunnel Message for vr `%vrname%`/`%vrid%` tunnel `%tun%` inst=`%tunIfInst%` idx=`%tunIfIndex%`

Message Parameters

Name	Type
vrname	String
vrid	uInt32
tun	String
tunIfInst	xInt32
tunIfIndex	xInt32

RtMgr.VLAN.RecvCfgTunlMsg

Description

Configure tunnel message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Configure Tunnel Message for vr `%vrname%`/`%vrid%` tunnel `%tun%` inst=`%tunIfInst%` idx=`%tunIfIndex%` type=`%type%` src=`%src%` dest=`%dest%`

Message Parameters

Name	Type
vrname	String
vrid	uInt32
tun	String

Name	Type
tunIfInst	xInt32
tunIfIndex	xInt32
type	uInt32
src	String
dest	String

RtMgr.VLAN.RecvRenameVLANMsg

Description

Rename VLAN message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Rename VLAN Message for `%currName%` new Name is `%newname%`

Message Parameters

Name	Type
currName	String
newname	String

RtMgr.VLAN.RecvDelVLANMsg

Description

Delete VLAN message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Delete VLAN Message for `%name%` IfInst=`%IfInst%` IfIndex=`%IfIndex%`

Message Parameters

Name	Type
name	String
IfInst	xInt32
IfIndex	xInt32

RtMgr.VLAN.RecvSetVLANStateMsg

Description

Set VLAN State message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Set VLAN State Message for `%name%` IfInst=`%IfInst%` status=`%status%`

Message Parameters

Name	Type
name	String
IfInst	xInt32
status	uInt32

RtMgr.VLAN.RecvIfFwdStateChgMsg

Description

Delete VLAN message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Interface Forward State Change Message for vlan[`%cnt%`/`%max%`]
IfInst=`%IfInst%` ForState=`%state%`

Message Parameters

Name	Type
cnt	uInt32
max	uInt32
IfInst	xInt32
state	uInt32

RtMgr.VLAN.RecvCreatVRMsg

Description

Create VR message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Create VR Message for `%name%` vrId=`%vrId%`

Message Parameters

Name	Type
name	String
vrId	uInt32

RtMgr.VLAN.RecvAddIPVLANMsg

Description

Add IP VLAN message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Add IP VLAN Message for `%name%` IfInst=`%IfInst%` IfIndex=`%IfIndex%` addr=`%addr%`/`%mask%`

Message Parameters

Name	Type
vrname	String
name	String
IfInst	xInt32
IfIndex	xInt32
addr	String
mask	uInt32

RtMgr.VLAN.RecvAddIPv6VLANMsg

Description

Add IPv6 VLAN message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Add IPv6 VLAN Message for `%name%` IfInst=`%IfInst%` IfIndex=`%IfIndex%` addr=`%addr%`/`%mask%` state=`%state%` eui64=`%eui64%`

Message Parameters

Name	Type
vrname	String
name	String
IfInst	xInt32
IfIndex	xInt32
addr	String
mask	uInt32
state	uInt32
eui64	xInt32

RtMgr.VLAN.RecvDelIPVLANMsg

Description

Del IP VLAN message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Delete IP VLAN Message for `%name%` IfInst=`%IfInst%` IfIndex=`%IfIndex%` addr=`%addr%`/`%mask%`

Message Parameters

Name	Type
vrname	String
name	String
IfInst	xInt32
IfIndex	xInt32
addr	String
mask	uInt32

RtMgr.VLAN.RecvDelIPv6VLANMsg

Description

Del IPv6 VLAN message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Del IPv6 VLAN Message for `%name%` IfInst=`%IfInst%` IfIndex=`%IfIndex%` addr=`%addr%`/`%mask%`

Message Parameters

Name	Type
vrname	String
name	String
IfInst	xInt32
IfIndex	xInt32
addr	String
mask	uInt32

RtMgr.VLAN.RecvIPv6AddrStateMsg

Description

IPv6 Address State message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received IPv6 Address State Message for `%name%` IfInst=`%IfInst%` IfIndex=`%IfIndex%` addr=`%addr%`/`%mask%` state=`%state%`

Message Parameters

Name	Type
vrname	String
name	String
IfInst	xInt32
IfIndex	xInt32
addr	String
mask	uInt32
state	uInt32

RtMgr.VLAN.RecvDelVRMsg

Description

Del VR message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Delete VR Message for `%name%` vrId=`%vrId%`

Message Parameters

Name	Type
name	String
vrId	uInt32

RtMgr.VLAN.RecvAddVLANToVRMsg

Description

Add VLAN to VR message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Add VLAN to VR Message for VR `%name%` vrId=`%vrId%` VLAN `%ifname%` IfInst=`%IfInst%`

Message Parameters

Name	Type
name	String
vrId	uInt32
ifname	String
IfInst	xInt32

RtMgr.VLAN.RecvDelVLANToVRMsg

Description

Del VLAN to VR message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Delete VLAN to VR Message for VR `%name%` vrId=`%vrId%` VLAN `%ifname%` IfInst=`%IfInst%`

Message Parameters

Name	Type
name	String
vrId	uInt32
ifname	String
IfInst	xInt32

RtMgr.VLAN.RecvSetVRIPFwdMsg

Description

Set VR IP Forwarding message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Set VR IP Forwarding Message for VR `%name%` vrId=`%vrId%` status=`%status%`

Message Parameters

Name	Type
name	String
vrId	uInt32
status	uInt32

RtMgr.VLAN.RecvSetIPFwdAllVRMsg

Description

Set VR IP Forwarding for all VRs message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Set VR IP Forwarding Message for All VRs status=`%status%`

Message Parameters

Name	Type
status	uInt32

RtMgr.VLAN.RecvSetVLANIPv6FwdMsg

Description

Set VLAN IPv6 Forwarding message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Set VLAN IPv6 Forwarding Message for %name% status=%status% IfIndex=%IfIndex%

Message Parameters

Name	Type
name	String
status	uInt32
IfIndex	xInt32

RtMgr.VLAN.RecvSetVRIPv6FwdMsg

Description

Set VR IPv6 Forwarding message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Set VR IPv6 Forwarding Message for VR %name% vrId=%vrId% status=%status%

Message Parameters

Name	Type
name	String
vrId	uInt32
status	uInt32

RtMgr.VLAN.RecvAddVLANInKern

Description

Add VLAN In Kernel message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Add VLAN In Kernel Message for VR `%vrname%` VLAN `%ifname%` IfInst=`%IfInst%` addr=`%addr%`/`%mask%`

Message Parameters

Name	Type
vrname	String
ifname	String
IfInst	xInt32
addr	String
mask	uInt32

RtMgr.VLAN.RecvTunStateMsg

Description

Tun State message received

Remedy

There is no remedy because there is no problem to be resolved

Severity

Debug-Summary

Message Text

Received Tunnel State Message for VR `%vrname%` vrId=`%vrId%` tun=`%tun%` IfInst=`%IfInst%` ifIndex=`%ifIndex%` state=`%state%`

Message Parameters

Name	Type
vrname	String
vrId	uInt32
tun	String
IfInst	xInt32
ifIndex	xInt32
state	uInt32

RtMgr.VLAN.FndTblFail

Description

RTMGR failed to locate routing table for %id% vr or vrf.

Remedy

This may mean that vr or vrf is deleted now or was never created. Do a show vr and/or show iproute vr %name% to see if vr or vrf exists.

Severity

Error

Message Text

Failed to find Table for `%id%` (`%name%`)

Message Parameters

Name	Type
id	xInt32
name	String

RtMgr.VLAN.SetL3VPNDetail

Description

RTMGR received a SET for L3VPN Static Label or VPNID Information.

Remedy

This is a debug message

Severity

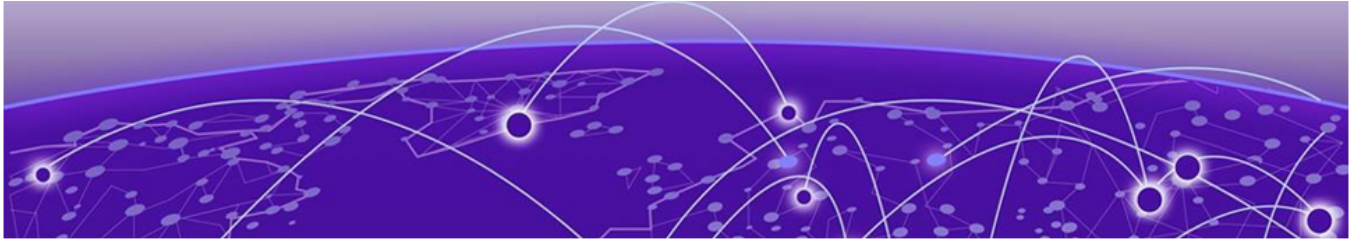
Debug-Data

Message Text

L3VPN Set Detail for VRF=`%vrf%` id=`%id%` flags=`%flg%` label=`%lbl%` VPNID:OUI=`%oui%` VPNID:index=`%idx%`

Message Parameters

Name	Type
vrf	VRF
id	xInt32
flg	xInt32
lbl	xInt32
oui	xInt32
idx	xInt32



sflow Messages

sflow.StrtTaskOK on page 4861

sflow.StrtTaskOK

Description

SFLOW Messages.

Remedy

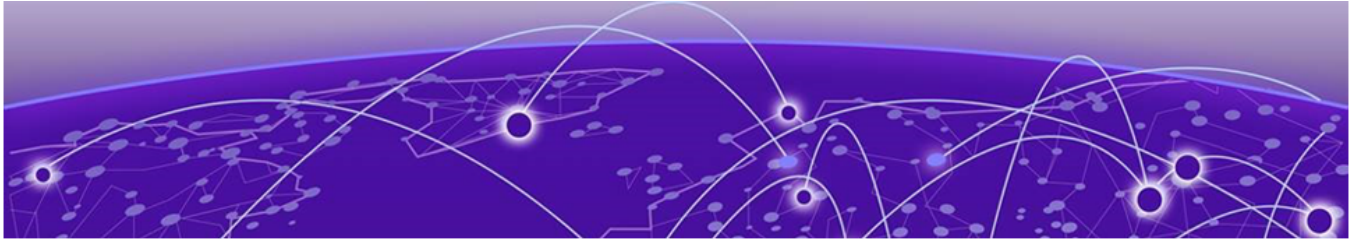
No remedy. Informational message.

Severity

Info

Message Text

Sflow Started successfully.



sflow.debug Messages

sflow.debug.AddCntSmplFail on page 4862
sflow.debug.RecvMsgInv on page 4863
sflow.debug.RecvSmplMsg on page 4863
sflow.debug.RecvSmplMsgInv on page 4864
sflow.debug.StrtThrtlProc on page 4864
sflow.debug.WritDevFail on page 4865
sflow.debug.AddSmplObjFail on page 4865

sflow.debug.AddCntSmplFail

Description

Debug message to be able to dump the egress on a cache.

Remedy

Informational message only, for debug purpose.

Severity

Notice

Message Text

Could not add the counter sample for port `%s0%:%s1%`, as receiver is not configured.

Message Parameters

Name	Type
s0	Slot
s1	Port

sflow.debug.RecvMsgInv

Description

Internal error.

Remedy

Contact tech support.

Severity

Warning

Message Text

Sample message with invalid slot id received. Garbage message number `%num1%`

Message Parameters

Name	Type
num1	uInt

sflow.debug.RecvSmplMsg

Description

Received samples from module.

Remedy

Debug message only

Severity

Debug-Verbose

Message Text

Received sample message bundle of lenght `%l1%`.

Message Parameters

Name	Type
l1	uInt

sflow.debug.RecvSmplMsgInv

Description

Internal error. Should rectify itself.

Remedy

If persists please contact tech support.

Severity

Warning

Message Text

Message received for sample had `%l1%` length. Retrying.

Message Parameters

Name	Type
l1	uInt

sflow.debug.StrtThrtlProc

Description

This is the defined throttling behavior. System should stabilize soon to a sustainable sampling rate. If the message persists then its an error condition.

Remedy

If message persists, pl contact tech support.

Severity

Notice

Message Text

Max cpu sample limit exceeded. Sampling rate for slot %s1% throttled from %l1% to %l2%.

Message Parameters

Name	Type
s1	Slot
l1	uInt
l2	uInt

sflow.debug.WritDevFail

Description

Internal error.

Remedy

Please contact tech support.

Severity

Warning

Message Text

Failed to write on to sflow device.

sflow.debug.AddSmplObjFail

Description

Internal error. Could not allocate an internal sampler object.

Remedy

Contact tech support.

Severity

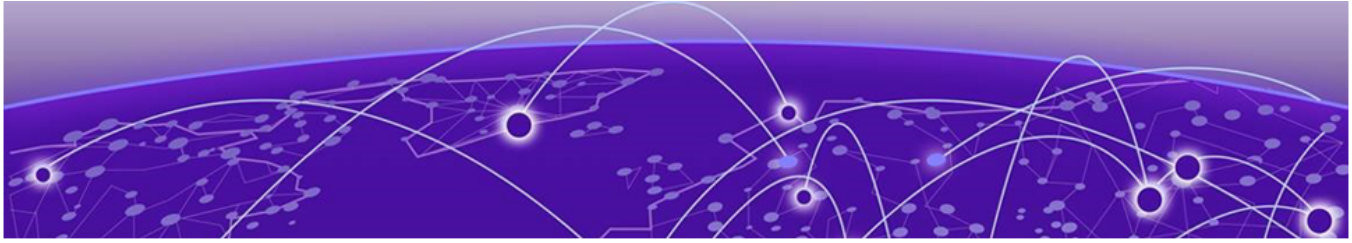
Error

Message Text

Failed to add a sampler for port `%s1%:%p1%`

Message Parameters

Name	Type
s1	Slot
p1	Port



sflow.extended Messages

sflow.extended.ShowCnt on page 4867
sflow.extended.RecvMsgPeerUnk on page 4868
sflow.extended.fndPrtDbFail on page 4868
sflow.extended.ShowHwUtilCnt on page 4869

sflow.extended.ShowCnt

Description

Polling for counters.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Received statistics on port `%n1%:%n2%`. `%n3%`, `%n4%` `%n5%`

Message Parameters

Name	Type
n1	Slot
n2	Port
n3	uInt
n4	uInt
n5	uInt

sflow.extended.RecvMsgPeerUnk

Description

Received message from a peer not known to sflow process. This is not expected, however, no harm is done to normal operation of sflow.

Remedy

If message persists please contact tech support.

Severity

Warning

Message Text

Received a message on extended thread from unknown peer, `%s1%`

Message Parameters

Name	Type
s1	sInt

sflow.extended.fndPrtDbFail

Description

Counters polling result received on a port not configured for sflow.

Remedy

In transient condistion this may happen. If it persists pl contact tech support.

Severity

Notice

Message Text

Sflow is not configured on port `%s1%:%p1%`, on which statistics were received.

Message Parameters

Name	Type
s1	Slot
p1	Port

sflow.extended.ShowHwUtilCnt

Description

Polling for Hardware utilization counters.

Remedy

Informational message only, for debug purpose.

Severity

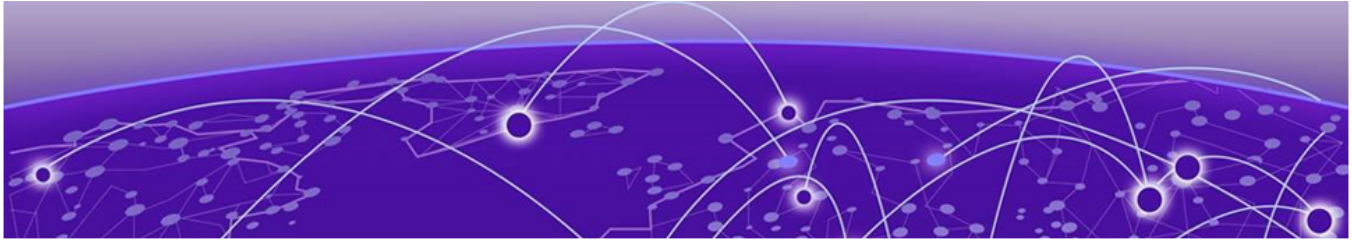
Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



sflow.msg Messages

sflow.msg.BldMcFDB on page 4870
sflow.msg.CreatSockFail on page 4871
sflow.msg.OpnDevFail on page 4871
sflow.msg.CreatThrdFail on page 4872
sflow.msg.BindVRFFail on page 4872

sflow.msg.BldMcFDB

Description

Starting to add multicast FDB entry to asic.

Remedy

Informational message only, for debug purpose.

Severity

Debug-Data

Message Text

Adding cache FDB, `%ip1%`/`%ip2%`, `%cpu%`.

Message Parameters

Name	Type
ip1	srcIP
ip2	dstIP
cpu	String

sflow.msg.CreatSockFail

Description

Internal error.

Remedy

Contact tech support.

Severity

Error

Message Text

Failed to open socket for receiver `%ip1%`

Message Parameters

Name	Type
ip1	IP

sflow.msg.OpnDevFail

Description

Failed to open sflow kernel device. This could be due to system running low on resources.

Remedy

Check the system configuration to see if the prescribed limits are not exceeded. Try with a scaled down configuration by ending processes which are not currently needed. If the problem persists, please try failover or rebooting.

Severity

Critical

Message Text

Failed to open sflow device.

sflow.msg.CreatThrdFail

Description

Creation of one of the pthreads in sflow Failed. Sflow process will terminate. This could be due to system running low on resources.

Remedy

Check the system configuration to see if the prescribed limits are not exceeded. Try with a scaled down configuration by ending processes which are not currently needed. If the problem persists, please try failover or rebooting.

Severity

Critical

Message Text

Could not create one or more threads. Exiting.

sflow.msg.BindVRFFail

Description

Internal error.

Remedy

This is a rare internal condition needing technical assistance. Please contact tech support.

Severity

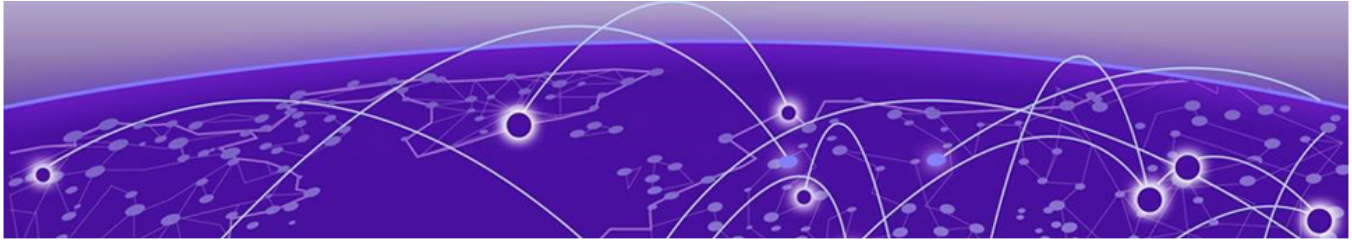
Error

Message Text

Could not bind specified socket `%sockid%` to VRF `%vrf%` for receiver with ip `%ip%`.

Message Parameters

Name	Type
sockid	sInt
vrf	String
ip	IP



sflow.sample Messages

sflow.sample.RecvSmplErr on page 4874
sflow.sample.RecvSmpl on page 4875
sflow.sample.SlotSmplUnk on page 4875
sflow.sample.SlotFreqMaxReach on page 4876

sflow.sample.RecvSmplErr

Description

Received a new sample from kernel. While processing the packet there was an error.

Remedy

This message is due to internal error. Please contact tech support.

Severity

Warning

Message Text

Failed to extract sample. Sample size `%s1%` Bundle Size `%d0%` Sample num `%d1%`\n

Message Parameters

Name	Type
s1	uInt32
d0	uInt32
d1	uInt32

sflow.sample.RecvSmpl

Description

Received a new sample from kernel.

Remedy

This is an informational message only.

Severity

Debug-Verbose

Message Text

Received sample from kernel with destination `%mac1%`

Message Parameters

Name	Type
mac1	MAC

sflow.sample.SlotSmplUnk

Description

Received a new sample from kernel. While processing the packet there was an error.

Remedy

This message is due to internal error. Please contact tech support.

Severity

Info

Message Text

Failed to get slot sample frequency for slot `%s1%`, `%s2%` \n

Message Parameters

Name	Type
s1	uInt32
s2	uInt32

sflow.sample.SlotFreqMaxReach

Description

Shows that throttling process is skipping slot as it has reached maximum slot frequency.

Remedy

This message is due to internal error. Please contact tech support.

Severity

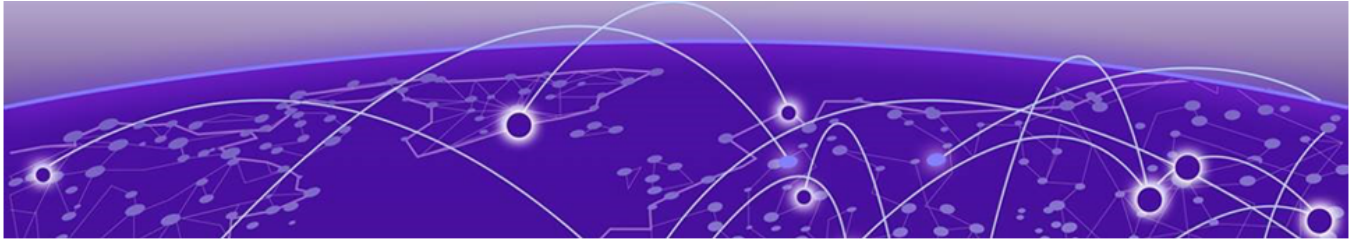
Info

Message Text

On slot `%s1%`, maximum slot frequency is reached. `%s2%` \n

Message Parameters

Name	Type
s1	uInt32
s2	uInt32



sflow.statistics Messages

sflow.statistics.RxStatsMsg on page 4877

sflow.statistics.RxStatsMsg

Description

Debug message informing what is being programmed into the kernel.

Remedy

Informational message only, for debug purpose.

Severity

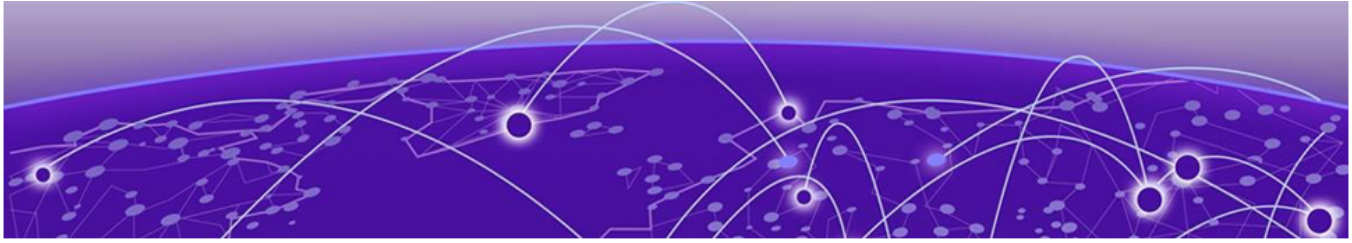
Debug-Data

Message Text

Received port statistics for port `%s1%:%p1%`.

Message Parameters

Name	Type
s1	Slot
p1	Port



SLPP Messages

SLPP.DsblPortRxPDU on page 4878
SLPP.EnblPortRcvryTimerExp on page 4878

SLPP.DsblPortRxPDU

Description

Received SLPP PDU disabling the port by SLPP Guard. SLPP Guard operationally disables the port for the configured timeout interval .Port will be re-enabled after configured timeout interval expires.

Remedy

No action required, after expiry of recovery timer port will be re-enabled by SLPP Guard

Severity

Warning

Message Text

Disabled Port `%SlotPort%` by SLPP Guard due to the Reception of an SLPP PDU

Message Parameters

Name	Type
SlotPort	String

SLPP.EnblPortRcvryTimerExp

Description

SLPP Guard operationally disables the port for the configured timeout interval if it receives SLPP PDU .Port will be re-enabled after the configured timeout interval expires.

Remedy

No action required.

Severity

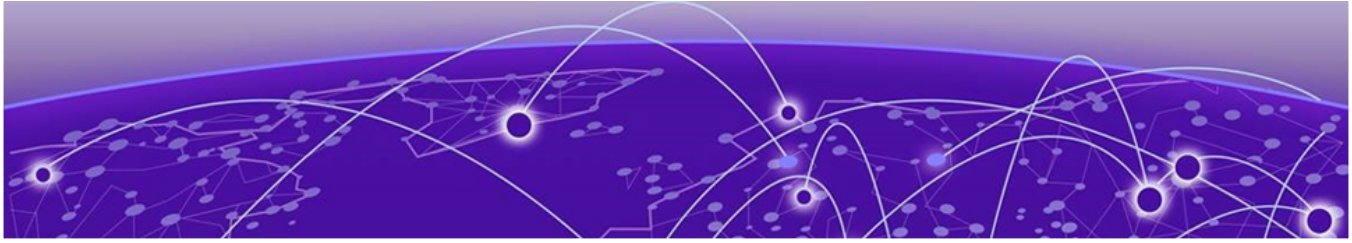
Notice

Message Text

Enabled Port `%SlotPort%` due to the SLPP Guard Recovery Timer Expiration

Message Parameters

Name	Type
SlotPort	String



SNMP Messages

SNMP.DebugVerbose on page 4880

SNMP.DebugVerbose

Description

General log message

Remedy

No remedy is available.

Severity

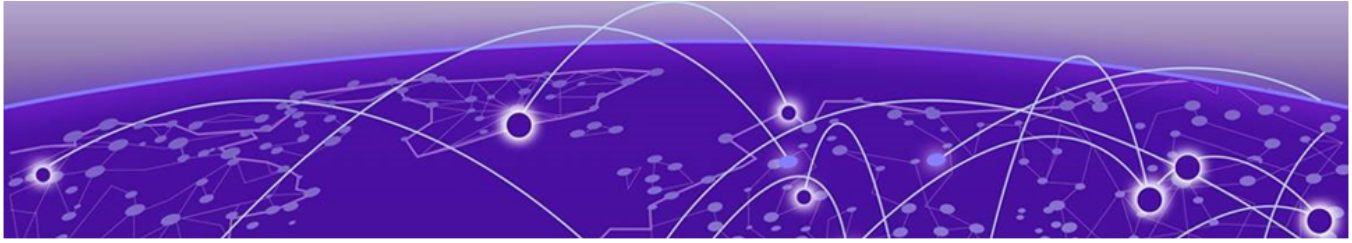
Debug-Verbose

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf



SNMP.Master Messages

SNMP.Master.EventRecv on page 4881
SNMP.Master.InitDone on page 4882
SNMP.Master.SubagentCnct on page 4882
SNMP.Master.SubagentTerm on page 4883
SNMP.Master.DropReqAccessDeny on page 4883
SNMP.Master.SendTrapFail on page 4884
SNMP.Master.ShutdownRecv on page 4884
SNMP.Master.AuthFail on page 4885
SNMP.Master.ReadEngBootCntFail on page 4885
SNMP.Master.WritEngBootCntFail on page 4886
SNMP.Master.EngBootCntInv on page 4887
SNMP.Master.EnblFIPSModeOK on page 4888
SNMP.Master.EnblFIPSModeFail on page 4888

SNMP.Master.EventRecv

Description

This is a debug message to indicate the event received in the snmpMasterMain() while loop. Direction 0->M to S, 1->S to M, 2->local event.

Remedy

NA

Severity

Debug-Data

Message Text

snmpMasterMain: Received event type=`%type%` direction=`%direction%`

Message Parameters

Name	Type
type	xInt32
direction	sInt32

SNMP.Master.InitDone

Description

Initialization of snmpMaster process is complete.

Remedy

NA

Severity

Info

Message Text

snmpMaster initialization complete

SNMP.Master.SubagentCnct

Description

Received IPML_NEW_PEER signal in snmpMaster signalling that snmpSubagent has connected to snmpMaster.

Remedy

NA

Severity

Debug-Summary

Message Text

snmpSubagent process (peerId=`%peer%`) connected to snmpMaster

Message Parameters

Name	Type
peer	uInt32

SNMP.Master.SubagentTerm

Description

Received IPML_DEAD_PEER signal in snmpMaster, signalling that snmpSubagent process has died.

Remedy

snmpSubagent process will be restarted automatically.

Severity

Debug-Summary

Message Text

snmpSubagent process (peerId = `%peer%`) died

Message Parameters

Name	Type
peer	uInt32

SNMP.Master.DropReqAccessDeny

Description

SNMP access from the specified source is denied by Policy Manager or access-list rule. Dropping this SNMP Request.

Remedy

Check the policy file or access-list associated with the application.

Severity

Warning

Message Text

SNMP access from source `%address%` is denied by rule `%rule%`. Dropping this Request.

Message Parameters

Name	Type
address	String
rule	String

SNMP.Master.SendTrapFail

Description

Failed to send trap to the configured trap receiver.

Remedy

Check the route to trap receiver from the switch. If problem persists, contact Extreme Networks support.

Severity

Error

Message Text

Unable to send trap to `%destIPaddr%`.

Message Parameters

Name	Type
destIPaddr	String

SNMP.Master.ShutdownRecv

Description

snmpMaster process received EPM_PROCESS_SHUTDOWN_IMMINENT signal.

Remedy

NA

Severity

Debug-Summary

Message Text

snmpMaster process received EPM_PROCESS_SHUTDOWN_IMMINENT signal

SNMP.Master.AuthFail

Description

Authentication failure through SNMP. The user might have entered wrong Community string in case of SNMP v1/v2c and in case of SNMPv3 the user might have enteredwrong password or the SNMP request is from out of sync SNMPv3 Manager.

Remedy

1) For SNMP v1/v2c bad community string error retry with correct community name. 2) For SNMPv3 wrong message digest error retry with correct password. 3) For SNMPv3 not in life time error sync the SNMP Manager and the SNMP Agent.

Severity

Warning

Message Text

Login failed through SNMP`%version%` - `%reason%` (`%srcAddr%`)

Message Parameters

Name	Type
version	String
reason	String
srcAddr	String

SNMP.Master.ReadEngBootCntFail

Description

snmpEngineBoots stores the number of times the SNMP Engine has initialized (on switch reboot or SNMP restart the value will increment). The value should always be a positive number in the range of 1-2147483647. Due to some internal error snmpEngineBoots read got failed. The reason for failure can be identified from the error code. The errors are self-correcting. A wrong read will reset the value to 1. The reset

will not cause any issue in the system and system will continue to work in the expected way. The Error condition and corresponding error codes are as follows. -1: Parameter not valid -2: Object type not valid -3: Not used -4: Device could not be opened -5: Object was not found -6: Error occurred attempting to add an object -7: Object is read only -8: Device is not valid -9: Read error occurred -10: Seek error occurred -11: Device error occurred during the operation -12: Device contains no objects -13: Device is full -14: EOF was encountered -15: No EOI object found -16: An internal routine was passed a bad file descriptor

Remedy

It is indeed a failure. But this do not cause any change in the behavior of SNMP or the switch. Only change after this will be the reset of the boot counter. If the counter value is being closely monitored or used, then the user can change the value with the recent value using command "configure snmpv3 engine-boots <value>". In the case of write error, the previous value is even provided in the warning message. Call for RMA is required only when the failure is frequent. That is multiple failures due to read, seek or device error (Error types can be identified from the return value). This kind of multiple failure in the same switch can be called for an RMA, since it is not the expected behavior from our hardware.

Severity

Warning

Message Text

An internal read error (Error code `%ecode%`) occurred while reading snmpEngineBoots value from non-volatile memory.

Message Parameters

Name	Type
ecode	sInt32

SNMP.Master.WritEngBootCntFail

Description

snmpEngineBoots stores the number of times the SNMP Engine has initialized (on switch reboot or SNMP restart the value will increment). The value should always be a positive number in the range of 1-2147483647. Due to some internal error snmpEngineBoots write got failed. The reason for failure can be identified from the error code. The system will continue to work in the expected way. The Error condition and corresponding error codes are as follows. -1: Parameter not valid -2: Object type not valid -3: Not used -4: Device could not be opened -5: Object was not found -6: Error

occurred attempting to add an object -7: Object is read only -8: Device is not valid -9: Read error occurred -10: Seek error occurred -11: Device error occurred during the operation -12: Device contains no objects -13: Device is full -14: EOF was encountered -15: No EOI object found -16: An internal routine was passed a bad file descriptor

Remedy

It is indeed a failure. But this do not cause any change in the behavior of SNMP or the switch. Only change after this will be the reset of the boot counter. If the counter value is being closely monitored or used, then the user can change the value with the recent value using command "configure snmpv3 engine-boots <value>". In the case of write error, the previous value is even provided in the warning message. Call for RMA is required only when the failure is frequent. That is multiple failures due to read, seek or device error (Error types can be identified from the return value). This kind of multiple failure in the same switch can be called for an RMA, since it is not the expected behavior from our hardware.

Severity

Warning

Message Text

An internal write error (Error code `%ecode%`) occurred while writing snmpEngineBoots(value `%eBoots%`) to non-volatile memory.

Message Parameters

Name	Type
ecode	sInt32
eBoots	sInt32

SNMP.Master.EngBootCntInv

Description

snmpEngineBoots stores the number of times the SNMP Engine has initialized (on switch reboot or SNMP restart the value will increment). The value should always be a positive number in the range of 1-2147483647. When the value for snmpEngineBoots is outside the permitted range, it gets reset to 1 internally to keep it in the permitted range. As per the standards, snmpEngineBoots value will increment up to 2147483647 and then will remain the same. So a user reset is required in this stage. This is not done internally since the value is still under the permitted range. This is the duty of the network administrator to check and reset.

Remedy

The command "show snmpv3 engine-info" shows the snmpEngineBoots value. This value can reset to any value in the range of 1-2147483647 manually using the command "configure snmpv3 engine-boots <value>". This is usually required when the snmpEngineBoots reaches value 2147483647.

Severity

Notice

Message Text

snmpEngineBoots value reset to 1 internally since it was outside the permitted range(value before reset `%eBoots%`).

Message Parameters

Name	Type
eBoots	sInt32

SNMP.Master.EnblFIPSModeOK

Description

FIPS mode is enabled in SNMP process.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Self-Test passed. FIPS mode enabled.

SNMP.Master.EnblFIPSModeFail

Description

Unable to properly configure crypto lib with FIPS mode enabled.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with "show tech" output.

Severity

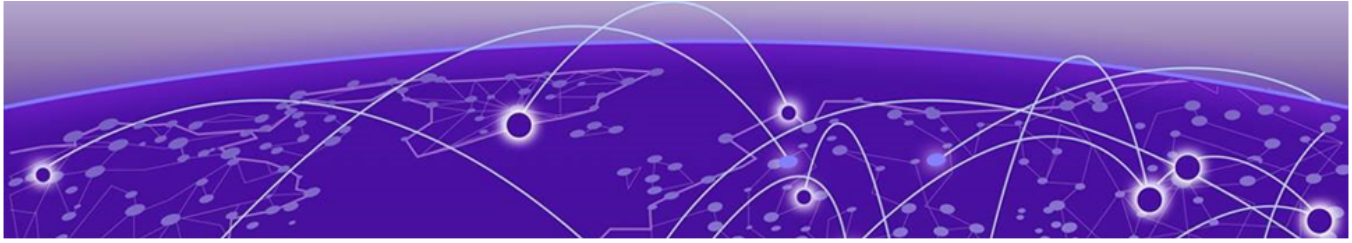
Error

Message Text

Failed to enable FIPS mode: `%errString%`

Message Parameters

Name	Type
errString	String



SNMP.Subagent Messages

SNMP.Subagent.LoadLibFail on page 4890
SNMP.Subagent.LoadLibOK on page 4891
SNMP.Subagent.LibUnLoad on page 4891
SNMP.Subagent.ShutdownRecv on page 4892
SNMP.Subagent.MstrTerm on page 4892
SNMP.Subagent.SockInv on page 4893
SNMP.Subagent.CnctOK on page 4893
SNMP.Subagent.InitDone on page 4894
SNMP.Subagent.MstrRestrt on page 4894

SNMP.Subagent.LoadLibFail

Description

The subagent library could not be loaded.

Remedy

The logs for that particular process, whose library could not be loaded, could have information about the problem. For more help contact Extreme Networks support.

Severity

Error

Message Text

Unable to load subagent library `%libName%`. Error: `%error%`

Message Parameters

Name	Type
libName	String
error	String

SNMP.Subagent.LoadLibOK

Description

The subagent library was successfully loaded.

Remedy

NA

Severity

Debug-Summary

Message Text

Successfully loaded subagent library `%libName%`

Message Parameters

Name	Type
libName	String

SNMP.Subagent.LibUnLoad

Description

All subagent MIB libraries have been unloaded

Remedy

NA

Severity

Debug-Summary

Message Text

Unloaded all subagent MIB libraries

SNMP.Subagent.ShutdownRecv

Description

snmpSubagent process received EPM_PROCESS_SHUTDOWN_IMMINENT signal.

Remedy

NA

Severity

Debug-Summary

Message Text

snmpSubagent process received EPM_PROCESS_SHUTDOWN_IMMINENT signal

SNMP.Subagent.MstrTerm

Description

Received IPML_DEAD_PEER signal in snmpSubagent signalling that snmpMaster has died.

Remedy

NA

Severity

Debug-Summary

Message Text

snmpMaster (peer id=`%peerId%`) is dead.

Message Parameters

Name	Type
peerId	uInt32

SNMP.Subagent.SockInv

Description

Invalid peer socket returned for the peer (snmpMaster).

Remedy

This can happen during a shutdown or an msm-failover. This can be ignored. If this is seen multiple times, contact Extreme Networks support for more information.

Severity

Error

Message Text

Invalid peer socket fd

SNMP.Subagent.CnctOK

Description

Successfully connected to snmpMaster process

Remedy

NA

Severity

Debug-Summary

Message Text

Successfully connected to snmpMaster (peerId=`%peerId%`)

Message Parameters

Name	Type
peerId	uInt32

SNMP.Subagent.InitDone

Description

Initilization of snmpSubagent process is complete.

Remedy

NA

Severity

Info

Message Text

snmpSubagent initialization complete

SNMP.Subagent.MstrRestrt

Description

snmpMaster process has been restarted. snmpSubagent needs to reload all the MIB libraries so that the MIBs are registered again with snmpMaster.

Remedy

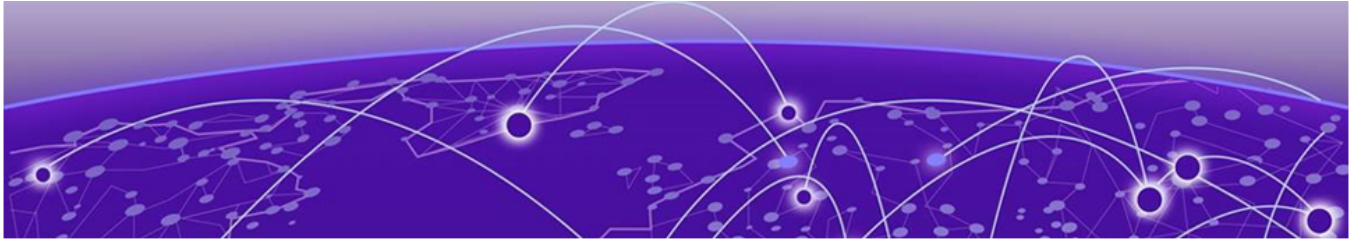
NA

Severity

Notice

Message Text

snmpMaster process has been restarted.



STM.Library Messages

STM.Library.Error on page 4895
STM.Library.Warning on page 4896
STM.Library.Notice on page 4896
STM.Library.Info on page 4897
STM.Library.DebugSummary on page 4897
STM.Library.DebugVerbose on page 4898
STM.Library.DebugData on page 4899
STM.Library.MaxStackNodesExcd on page 4899

STM.Library.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

STM.Library.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpect circumstance related to some external stimulus.

Remedy

The exact remedy is dependant on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

STM.Library.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

STM.Library.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

STM.Library.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

STM.Library.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

STM.Library.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

STM.Library.MaxStackNodesExcd

Description

More switches are connected into the stack than are supported by the system. The stack will not operated correctly in this state.

Remedy

Disconnect switches in the stack so that it contains no more than the maximum supported. It may be necessary to reboot the entire stack after doing this.

Severity

Warning

Message Text

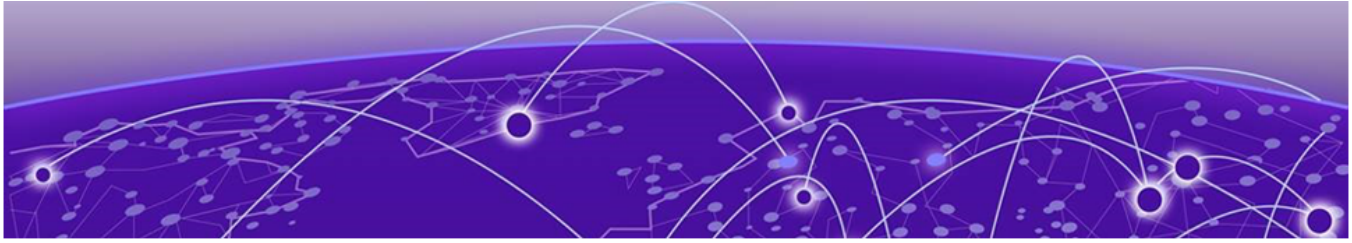
The maximum of `%max%` supported nodes in a stack has been exceeded.

Message Parameters

Name	Type
max	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



STP Messages

STP.CreatDmnFail on page 4902
STP.PhysPortInv on page 4902
STP.VLANNotAssocDmn on page 4903
STP.VLANAlrdyBndDmn on page 4903
STP.PhysPortAssocInv on page 4904
STP.CreatPortFail on page 4904
STP.PortAlrdyBndDmn on page 4905
STP.PortInuse on page 4906
STP.EnterSetPortVPSTState on page 4906
STP.Warning on page 4907
STP.ParmInv on page 4907
STP.PortModeNotExpct on page 4908
STP.GetAvailPortFail on page 4909
STP.BndPortFail on page 4909
STP.AddActvPortFail on page 4910
STP.DomainEnable on page 4910
STP.DomainDisable on page 4911
STP.ChangeTag on page 4911
STP.FDBFlush on page 4912
STP.GetAvailDomainFail on page 4912
STP.BindAutobindFail on page 4913
STP.ESRPConflict on page 4913
STP.NULLBridgeId on page 4914
STP.UnsupPhysInterface on page 4914
STP.FlushReason on page 4915
STP.LicenseError on page 4916
STP.IgnRSTPProp on page 4916
STP.NetLoginClntUnAuth on page 4917
STP.SendClntTopoChgMsg on page 4917
STP.AllocClntMsgFail on page 4918
STP.SendClntMsgFail on page 4918
STP.DsblPortLoopDtect on page 4919
STP.DsblPortBrdgDtect on page 4919

STP.EnblPortTimerExp on page 4920

STP.CreatDmnFail

Description

A failure to create an STP Domain failed.

Remedy

Check to see if the maximum number of domains possible has been exceeded.

Severity

Warning

Message Text

```
%msg% %optPrintfStr%
```

Message Parameters

Name	Type
msg	String
optPrintfStr	Printf

STP.PhysPortInv

Description

An STP port has no physical interface associated with it.

Remedy

Possible incorrect configuration or a physical line card was removed and no notification was sent.

Severity

Error

Message Text

STP port has no physical port associated with it.

STP.VLANNotAssocDmn

Description

Precondition of a bridge belonging to a specific STP domain is incorrect.

Remedy

Check configuration

Severity

Error

Message Text

VLAN `%vlan%` not associated with STP domain `%stpdName%`

Message Parameters

Name	Type
vlan	String
stpdName	String

STP.VLANAlrdyBndDmn

Description

We a trying to bind a VLAN to an STP domain, but the bridge is already bound to a different STP domain.

Remedy

Remove the vlan from the other STP domain and then retry the command.

Severity

Error

Message Text

The VLAN ID `%vlanID%` conflicts with the STP domain `%stpdName%`

Message Parameters

Name	Type
vlanID	uInt
stpdName	String

STP.PhysPortAssocInv

Description

Could not find the specified STP port given this physical port.

Remedy

Check the configuration of STP on this port

Severity

Warning

Message Text

No matching STP ports have been found on this physical port (`%stpPort%`).

Message Parameters

Name	Type
stpPort	Port

STP.CreatPortFail

Description

The call to create an STP port returned an error. This is meant more for control flow, as the specific errors are logged in the creation routine.

Remedy

N/A

Severity

Debug-Summary

Message Text

Failed to create port `%portId%` in STP domain `%stpdInstanceId%`

Message Parameters

Name	Type
portId	String
stpdInstanceId	String

STP.PortAlrdyBndDmn

Description

Attempted to migrate a port from one STP domain to another.

Remedy

Unconfigure the port from the old STP domain first, then repeat the command.

Severity

Warning

Message Text

Attempted to bind STP port `%port%` to STP domain `%newstpd%`, already bound to STP domain `%oldstpd%`

Message Parameters

Name	Type
port	String
newstpd	String
oldstpd	String

STP.PortInuse

Description

This is an attempt to unbind a port without appropriate measures already being taken.

Remedy

Disable STP domain or the port prior to removal and repeat the command

Severity

Error

Message Text

Cannot unbind, STP is still running on STP port `%stpPort%` (ID `%portId%`)

Message Parameters

Name	Type
stpPort	Ptr
portId	uInt16

STP.EnterSetPortVPSTState

Description

Entering function stpPortSetVpstState.

Remedy

N/A

Severity

Debug-Verbose

Message Text

STP domain `%stpdName%`, port `%port%`, `%oldState%` to `%newState%` (`%vlanCnt%` vlans)

Message Parameters

Name	Type
stpdName	String
port	String
oldState	uInt8
newState	uInt8
vlanCnt	uInt32

STP.Warning

Description

Generic catch-all for migration to EMS from TRACE/syslog facilities. These should all go away eventually.

Remedy

Report to Extreme

Severity

Info

Message Text

```
%printfStr%
```

Message Parameters

Name	Type
printfStr	Printf

STP.ParmInv

Description

These are sanity checks for functions, where parameters must conform to certain pre-conditions.

Remedy

Disable the STP domain and reenable it.

Severity

Debug-Summary

Message Text

`%printfStr%`

Message Parameters

Name	Type
printfStr	Printf

STP.PortModeNotExpct

Description

This port needs to be in a different mode than it is in order to perform the current function.

Remedy

Possible configuration problem, check the configuration for 802.1d ports in the domain

Severity

Error

Message Text

STP domain `%stpdname%` port `%portnum%` is in an unexpected mode (`%mode%`)

Message Parameters

Name	Type
stpdname	String
portnum	String
mode	String

STP.GetAvailPortFail

Description

An attempt was made to obtain a (preallocated) STP port and all of them were already being used.

Remedy

If a new STP port is needed, try deleting an existing STP port. If no STP ports are in use, contact Extreme.

Severity

Error

Message Text

No STP ports are available.

STP.BndPortFail

Description

Flow tracing

Remedy

N/A

Severity

Debug-Summary

Message Text

Could not bind port to STP domain `%stpdname%`

Message Parameters

Name	Type
stpdname	String

STP.AddActvPortFail

Description

Flow tracing.

Remedy

N/A

Severity

Debug-Summary

Message Text

Failed to add STP port to active tree

STP.DomainEnable

Description

Message logged when a STP domain is enabled

Remedy

N/A

Severity

Warning

Message Text

STP domain `%domain%` enabled

Message Parameters

Name	Type
domain	String

STP.DomainDisable

Description

Message logged when a STP domain is disabled

Remedy

N/A

Severity

Warning

Message Text

STP domain `%domain%` disabled

Message Parameters

Name	Type
domain	String

STP.ChangeTag

Description

Attempted to change the 802.1q tag on the carrier vlan and we failed to updathe STP domain tag for some reason.

Remedy

Check the configuration change. Likely the domain must be disabled to meet the qualification checks, otherwise there may be a problem with carrier vlan specification.

Severity

Warning

Message Text

Failed to change STP domain tag from `%oldtag%` to `%newtag%` due to a change to `%vlan%`

Message Parameters

Name	Type
vlan	VLAN
oldtag	VLAN-tag
newtag	VLAN-tag

STP.FDBFlush

Description

Log when we flush FDB for any reason

Remedy

N/A

Severity

Debug-Summary

Message Text

Flushing FDB (`%msg%`)

Message Parameters

Name	Type
msg	Printf

STP.GetAvailDomainFail

Description

An attempt was made to obtain a (preallocated) STP domain and all of them were already being used.

Remedy

If a new STP domain is needed, try deleting an existing STP domain. If no STP domains are in use, contact Extreme.

Severity

Error

Message Text

No STP domains are available.

STP.BindAutobindFail

Description

Autobind for a particular vlan can be enabled on one STP domain at a time.

Remedy

Disable autobind for the vlan to the old STP domain and then repeat the command

Severity

Error

Message Text

Cannot autobind vlan `%vlan%` to STP domain `%domain%`, already bound to STP domain `%olddomain%`, disable first

Message Parameters

Name	Type
vlan	String
domain	String
olddomain	String

STP.ESRPConflict

Description

ESRP configuration was detected on the vlan that STP is being configured for.

Remedy

Both ESRP and STP cannot be configured on the same VLAN, remove one of the two from the configuration

Severity

Error

Message Text

ESRP conflict on vlan `%vlan%`

Message Parameters

Name	Type
vlan	String

STP.NULLBridgeId

Description

Detected a NULL bridge MAC.

Remedy

Check the system MAC address to make sure it is correctly set in the hardware.

Severity

Error

Message Text

00:00:00:00:00:00 MAC not allowed on STP domain `%domain%`

Message Parameters

Name	Type
domain	String

STP.UnsupPhysInterface

Description

Attempted to use STP on a physical interface that does not support it. This is usually due to an invalid slot (> 8), port (> 256) or combination of the two (slot 8, port 256 is never legal)

Remedy

Relocate the port to another location and retry the command

Severity

Critical

Message Text

STP not supported on this physical interface (`%message%`)

Message Parameters

Name	Type
message	Printf

STP.FlushReason

Description

This message gives the user an indication as to what the scope of the FDB flush is and why it is being initiated

Remedy

N/A

Severity

Info

Message Text

FDB Flush: `%message%`

Message Parameters

Name	Type
message	Printf

STP.LicenseError

Description

A generic error message concerning licensing issues. May appear due to an error in the licensing subsystem or due to insufficient licenses to do the requested action.

Remedy

Obtain the appropriate license

Severity

Warning

Message Text

`%err%`

Message Parameters

Name	Type
err	Printf

STP.IgnRSTPProp

Description

RSTP refused to respond to a neighbor's Proposal for a RSTP state change because the hardware has not yet responded that it is in sync with the software port state. This is critical to avoid allowing the neighbor to prematurely transition and create a temporary cycle in the network.

Remedy

This is a transient error and does not pose a problem.

Severity

Notice

Message Text

Refusing to agree to RSTP proposal due to pending VPST hardware sync on STP domain `%domain%`

Message Parameters

Name	Type
domain	String

STP.NetLoginClntUnAuth

Description

STP has detected a topology change for which it needs to flush the FDB on a port for which Netlogin is enabled.Flushing the FDB necessarilly causes any Netlogin clients that may be authenticated on that port to become unauthenticated.

Remedy

Try to reauthenticate netlogin clients.

Severity

Info

Message Text

Any Netlogin clients on port (`%portId%`) are unauthenticated because of a topology change.

Message Parameters

Name	Type
portId	String

STP.SendClntTopoChgMsg

Description

A topology change has occurred. A message indicating this is being sent to STP clients.

Remedy

None. This is an informational message only.

Severity

Debug-Summary

Message Text

Send topology change notification type `%tcType%` for STPD `%stpdName%`

Message Parameters

Name	Type
stpdName	String
tcType	uInt32

STP.AllocClntMsgFail

Description

STP could not allocate memory in order to notify a client about a topology change. By not sending this message, network convergence time may increase depending on the topology of the network and the nature of the topology change.

Remedy

Reduce the configuration to reclaim memory resources.

Severity

Warning

Message Text

Failed to allocate client message, out of resources

STP.SendClntMsgFail

Description

A message could not be sent to an STP client due to an unexpected error. Depending on the nature of the network topology and the topology change that just occurred, network convergence may be delayed as a result of not being able to send this message.

Remedy

The error code may be useful to engineering in debugging client/server connectivity issues.

Severity

Warning

Message Text

Internal error `%ipmlErr%` while attempting to send client message

Message Parameters

Name	Type
ipmlErr	sInt

STP.DsblPortLoopDtect

Description

STP has detected a Loop for which it needs to shutdown the port.

Remedy

Try to remove the loop on Edge Safeguard ports.

Severity

Warning

Message Text

Loop Detected on Edge Safeguard Port (`%portId%`) and port will be shutdown.

Message Parameters

Name	Type
portId	String

STP.DsblPortBrdgDtect

Description

STP has received a BPDU on restricted port for which it needs to shutdown port.

Remedy

Try to remove the external bridge connected to the port.

Severity

Warning

Message Text

BPDU Restrict Port (`%portId%`) has received a bpdu and will be shutdown.

Message Parameters

Name	Type
portId	String

STP.EnblPortTimerExp

Description

Port is re-enabled due to time out expiry.

Remedy

NA.

Severity

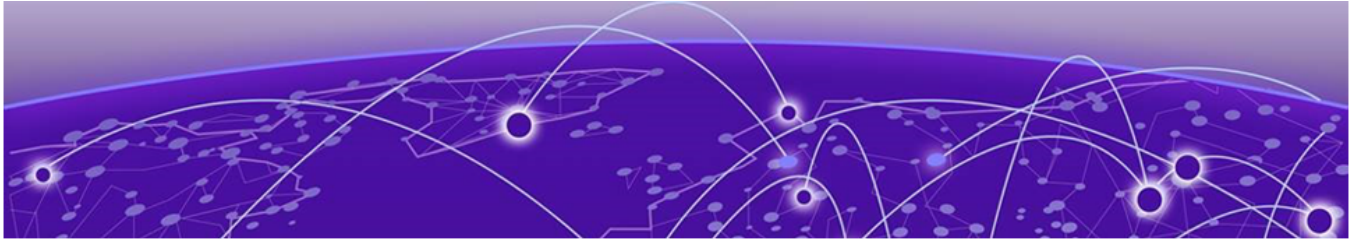
Warning

Message Text

Port (`%portId%`) is re-enabled as the disable time out has expired.

Message Parameters

Name	Type
portId	String



STP.InBPDU Messages

STP.InBPDU.Drop on page 4921
STP.InBPDU.Dump on page 4922
STP.InBPDU.Trace on page 4922
STP.InBPDU.Ign on page 4923
STP.InBPDU.Mismatch on page 4923
STP.InBPDU.DropRxNonSTPPort on page 4924

STP.InBPDU.Drop

Description

A received packet has an invalid header or some field that shouldn't be possible. The packet could also be inconsistent with where we are in the code (failed sanity check).

Remedy

Examine a packet dump of the offending BPDU to determine the problem. STP.InBPDU.Dump can be used to dump the BPDU or a manual sniff of the wire may be necessary.

Severity

Error

Message Text

Port=`%inport%: %msg%`

Message Parameters

Name	Type
inport	String
msg	Printf

STP.InBPDU.Dump

Description

Displays the entire BPDU packet contents. Caution: this will have a severe impact on software performance.

Remedy

N/A

Severity

Debug-Data

Message Text

Port=`%inport%` Raw Packet: `%bufPtr%`

Message Parameters

Name	Type
inport	String
bufPtr	Buf-ptr
bufLen	Buf-len

STP.InBPDU.Trace

Description

Informational messages along a BPDU's path through the STP process.

Remedy

N/A

Severity

Debug-Verbose

Message Text

Port=`%inport%`: `%msg%`

Message Parameters

Name	Type
inport	String
msg	Printf

STP.InBPDU.Ign

Description

An event designed for situations where changes to the configuration result in BPDUs being ignored. For example, STP has been disabled, but STP packets are still being sent by other bridges on the LAN.

Remedy

N/A

Severity

Debug-Summary

Message Text

```
%msg% %optPrintfString%
```

Message Parameters

Name	Type
msg	String
optPrintfString	Printf

STP.InBPDU.Mismatch

Description

Message displayed when a port is configured for one BPDU encapsulation mode but receives BPDUs in a different encapsulation mode.

Remedy

Check configuration of the BPDU encapsulation.

Severity

Warning

Message Text

Port=`%inport% %msg%`

Message Parameters

Name	Type
inport	String
msg	Printf

STP.InBPDU.DropRxNonSTPPort

Description

Bpdu are received on non stp port.

Remedy

NA.

Severity

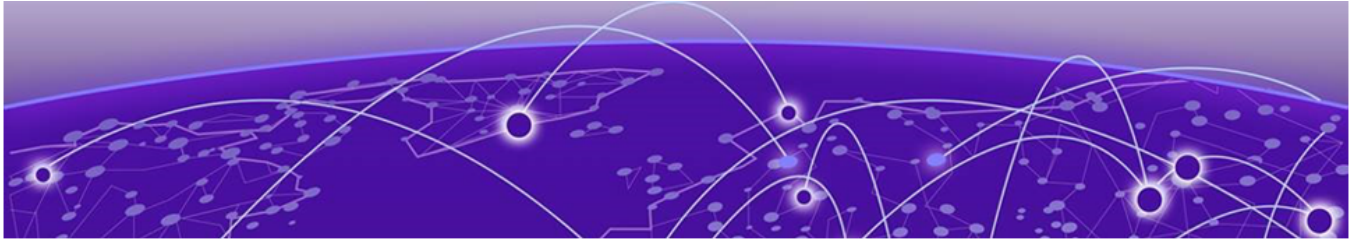
Info

Message Text

Dropped BPDU received on non-STP port (`%inport%`)`%rateLimit%`

Message Parameters

Name	Type
inport	String
rateLimit	String



STP.OutBPDU Messages

STP.OutBPDU.Drop on page 4925
STP.OutBPDU.Dump on page 4926
STP.OutBPDU.Trace on page 4926
STP.OutBPDU.DropMaxAge on page 4927

STP.OutBPDU.Drop

Description

Used when packets are dropped during STP output processing.

Remedy

Examine the message for the reason the BPDU was dropped and take corrective action.

Severity

Error

Message Text

Port=`%outport%`: `%msg%`

Message Parameters

Name	Type
outport	String
msg	Printf

STP.OutBPDU.Dump

Description

Displays entire BPDU packet contents. Caution: this will have a severe impact on software performance.

Remedy

N/A

Severity

Debug-Data

Message Text

Port=`%outport%` Tagged=`%tagged%` Raw Packet: `%bufPtr%`

Message Parameters

Name	Type
outport	String
tagged	uInt16
bufPtr	Buf-ptr
bufLen	Buf-len

STP.OutBPDU.Trace

Description

Informational messages along a BPDU's path through STP.

Remedy

N/A

Severity

Debug-Verbose

Message Text

Port=`%outport%`: `%msg%`

Message Parameters

Name	Type
outport	String
msg	Printf

STP.OutBPDU.DropMaxAge

Description

Used when packets are dropped during STP output processing due to the MaxAge value being too large. This is normal for networks of large diameter or when a BPDU flood appears on a network.

Remedy

Check network size to make sure the maximum diameter is not exceeded and check to make sure no L2 devices are flooding/looping BPDUs.

Severity

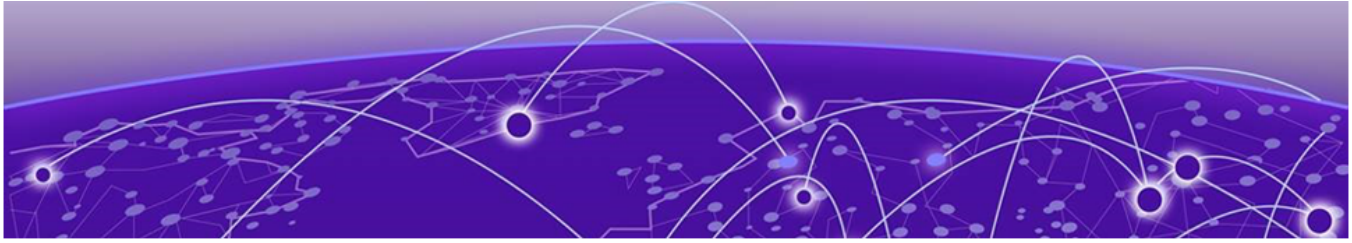
Info

Message Text

Port=`%outport%`: `%msg%`

Message Parameters

Name	Type
outport	String
msg	Printf



STP.State Messages

STP.State.PortRole on page 4928
STP.State.PortState on page 4929
STP.State.Topology on page 4929
STP.State.Timer on page 4930
STP.State.ProtocolMigration on page 4930
STP.State.Handshake on page 4931

STP.State.PortRole

Description

Port Role Selection state machine selects role of STP Ports.

Remedy

N/A

Severity

Debug-Summary

Message Text

[`%domain%:%port%`] Role Change : `%roleSelection%`

Message Parameters

Name	Type
domain	String
port	String
roleSelection	Printf

STP.State.PortState

Description

Port state transition machine keeps track of Listening , Learning , Forwarding states.

Remedy

N/A

Severity

Debug-Summary

Message Text

[%domain%:%port%] State Change : %stateChange%

Message Parameters

Name	Type
domain	String
port	String
stateChange	Printf

STP.State.Topology

Description

Topology Change machine will handle topology changes either detected locally or got notified by another STP bridge in the network.

Remedy

N/A

Severity

Debug-Summary

Message Text

[%domain%:%port%] %topologyChange%

Message Parameters

Name	Type
domain	String
port	String
topologyChange	Printf

STP.State.Timer

Description

Port Timer Machine will start/stop/restart port timers as per events.

Remedy

N/A

Severity

Debug-Verbose

Message Text

[%domain%:%port%] %timerType%

Message Parameters

Name	Type
domain	String
port	String
timerType	Printf

STP.State.ProtocolMigration

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

[%domain%:%port%] Protocol Mode Change : %ModeChange%

Message Parameters

Name	Type
domain	String
port	String
ModeChange	Printf

STP.State.Handshake

Description

No description is available.

Remedy

No remedy is available.

Severity

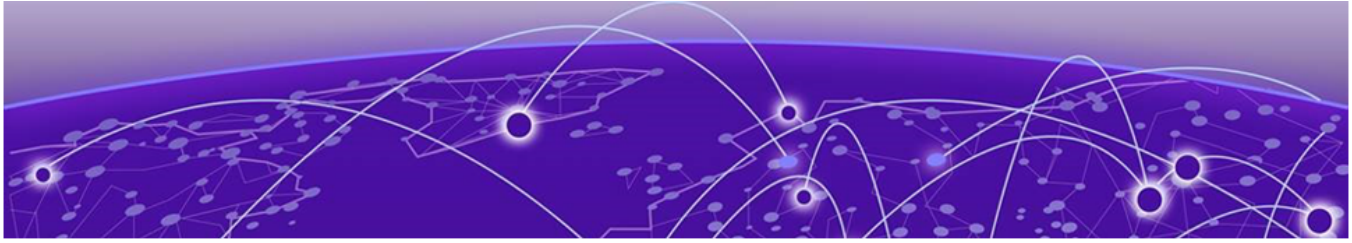
Debug-Verbose

Message Text

[%domain%:%port%] %handshakeState%

Message Parameters

Name	Type
domain	String
port	String
handshakeState	Printf



STP.System Messages

STP.System.InitFail on page 4932
STP.System.AllocMemFail on page 4933
STP.System.InsNodeFail on page 4933

STP.System.InitFail

Description

Initialization failed due to the insufficient memory to allocate the STP tables in the system. This condition is mainly due to system starvation or an extreme low memory condition.

Remedy

A possible remedy is to use the "show memory" and "show log" commands to monitor the memory status of different processes. Depending on the results of these commands, you can either change the system configuration or free up the system memory by ending processes which are currently not needed. If the problem persists, please try failover or rebooting the switch.

Severity

Critical

Message Text

Initialization failed, `%reason%`

Message Parameters

Name	Type
reason	Printf

STP.System.AllocMemFail

Description

An attempt to allocate the specified memory size failed.

Remedy

An unexpected internal error. Please contact Extreme Networks with configuratio information.

Severity

Error

Message Text

Memory allocation (`%size%`) failure

Message Parameters

Name	Type
size	uInt32

STP.System.InsNodeFail

Description

Implementation-specific data structure routine failure.

Remedy

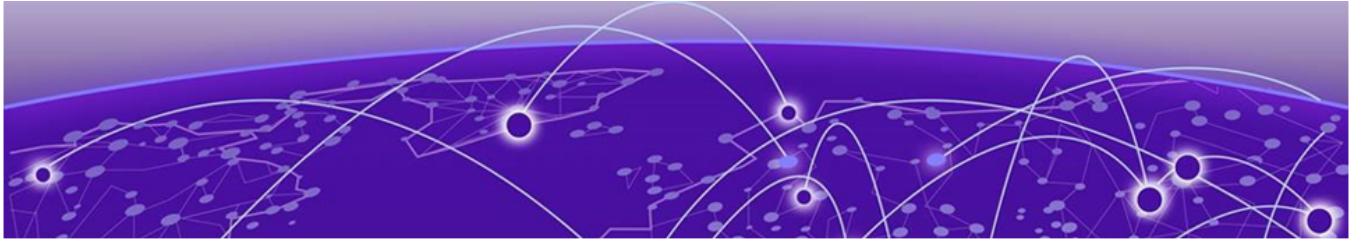
No corrective action can be taken by the user other than rebooting the switch.

Severity

Error

Message Text

Failed to insert new node into data structure.



SyncE Messages

SyncE.Critical on page 4934
SyncE.Error on page 4935
SyncE.Warning on page 4936
SyncE.Info on page 4936
SyncE.DebugSummary on page 4937
SyncE.DebugVerbose on page 4937
SyncE.DebugData on page 4938
SyncE.DebugInit on page 4939
SyncE.RxPkt on page 4939
SyncE.TxPkt on page 4940
SyncE.ESMCPDUInvMaxSizExcd on page 4941
SyncE.Timer on page 4942
SyncE.RxEvent on page 4942
SyncE.TxEvent on page 4943
SyncE.RxFail on page 4944
SyncE.RxOK on page 4945
SyncE.TxFail on page 4945
SyncE.TxOK on page 4946

SyncE.Critical

Description

A serious problem has been detected which is compromising the operation of the system. The system can not function as expected unless it is remedied. The problem may be related to hardware failure or software data corruption.

Remedy

The exact remedy is dependant on the particular situation; but the problem may not be resolved without intervention of some sort.

Severity

Critical

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.Error

Description

SyncE error message. Could be related to a software defect in the code.

Remedy

No remedy is available.

Severity

Error

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.Warning

Description

SyncE warning message.

Remedy

No remedy is available.

Severity

Warning

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.Info

Description

Info messages are to indicate some legit event has occured.

Remedy

No remedy is available.

Severity

Info

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.DebugSummary

Description

DebugSummary messages show only the important debug messages related to SyncE

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.DebugVerbose

Description

DebugVerbose messages will show all debug related messages.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.DebugData

Description

DebugData will show contents of PDUs sent and received.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.DebugInit

Description

Debug messages when SyncE is being initialized.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%reason%
```

Message Parameters

Name	Type
reason	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.RxPkt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Incoming packet from port `%slotport%` is

Message Parameters

Name	Type
slotport	ingressSlotPort
ptr	Buf-ptr
len	Buf-len

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.TxPkt

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Outgoing packet from port `%slotport%` is

Message Parameters

Name	Type
slotport	egressSlotPort
ptr	Buf-ptr
len	Buf-len

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.ESMCPDUInvMaxSizExcd

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

ESMC PDU invalid because the size `%size%` bytes exceeds `%pdusize%` bytes on port `%slotport%`.

Message Parameters

Name	Type
size	uInt
pdusize	uInt
slotport	egressSlotPort

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.Timer

Description

Log of timer being started, restarted or stopped (with reason).

Remedy

This is for debugging purposes only

Severity

Debug-Summary

Message Text

`%timerType%` Timer `%action%` for port `%slotPort%` [`%reason%`]

Message Parameters

Name	Type
timerType	String
action	String
slotPort	SlotPort
reason	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.RxEvent

Description

To track received events (like port events,VLAN events,LinkFault Info) from HAL,VLAN Module and by PDU from peer

Remedy

This is for informational purposes only

Severity

Debug-Verbose

Message Text

Received `%event%` event for port `%slotport%` with EventType [`%eventType%`]

Message Parameters

Name	Type
event	String
slotport	ingressSlotPort
eventType	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.TxEvent

Description

To track transmitted events to HAL,VLAN Module and by PDU to peer

Remedy

This is for informational purposes only

Severity

Debug-Verbose

Message Text

Transmitting `%event%` event from port `%slotport%` with Eventtype [`%eventType%`]

Message Parameters

Name	Type
event	String
slotport	egressSlotPort
eventType	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.RxFail

Description

This message specifies processing failed with reason for the received PDU.

Remedy

This can happen if Synchronous Ethernet application receives corrupted/wrong packet.Check reason for corrupted information

Severity

Error

Message Text

Receive PDU processing failed for port `%slotport%` with dstMac=`%dstMac%`,Type=`%type%`,SubType=`%subType%`,[Reason=`%reason%`]

Message Parameters

Name	Type
slotport	ingressSlotPort
dstMac	dstMAC
type	xInt16
subType	xInt8
reason	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.RxOK

Description

An Synchronous Ethernet PDU Receive Success

Remedy

This is for debugging purposes only

Severity

Debug-Verbose

Message Text

Receive PDU Success for port `%slotPort%` RxCount `%rxCount%`

Message Parameters

Name	Type
slotPort	ingressSlotPort
rxCount	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.TxFail

Description

An Syncrhonous Ethernet PDU transmit failed due to an unexpected system error

Remedy

This is a system problem. No user remedy is possible.

Severity

Error

Message Text

Transmit PDU Failed from port `%portStr%`; Reason[`%reason%`]

Message Parameters

Name	Type
portStr	String
reason	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

SyncE.TxOK

Description

An Synchronous Ethernet PDU transmit Success

Remedy

This is for debugging purposes only

Severity

Debug-Verbose

Message Text

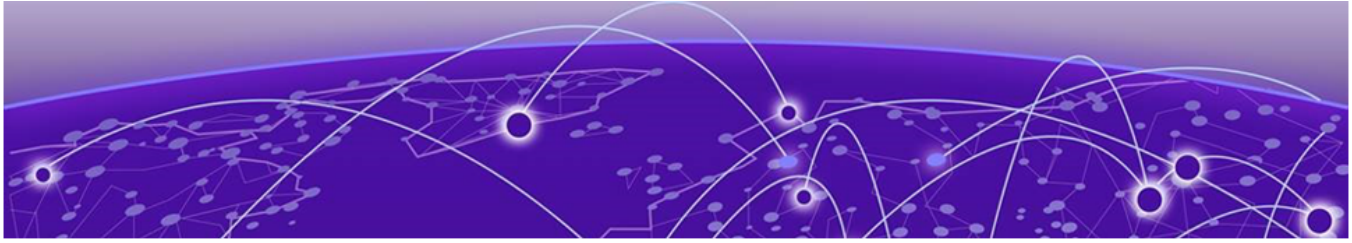
Transmit PDU Success for port `%slotPort%` TxCount `%txCount%`

Message Parameters

Name	Type
slotPort	egressSlotPort
txCount	uInt32

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



System Messages

System.Assert on page 4948
System.userComment on page 4949

System.Assert

Description

When a process ASSERTS this message gets logged by the system.

Remedy

Please contact Technical Support report the message, and provide any additional information related to this failure. This information needs to be supplied to Engineering, if possible in combination with a core dump.

Severity

Critical

Message Text

`%type%` by `%process%` in `%function%`()@`%file%`:`%line%` REASON: `%fmt%`

Message Parameters

Name	Type
type	String
process	String
file	String
line	uInt32
function	String
fmt	Printf

System.userComment

Description

This message is put in the log as a result of the "create log message" command.

Remedy

No action required - Informational message only.

Severity

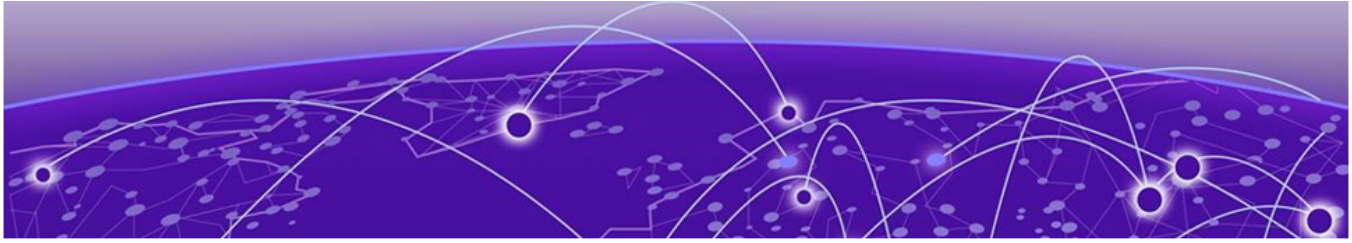
Info

Message Text

```
%message%
```

Message Parameters

Name	Type
message	String



TechSupport Messages

TechSupport.SendRprtOK on page 4950
TechSupport.CnctClctFail on page 4951
TechSupport.ClctRprtFail on page 4952
TechSupport.SendRprtFail on page 4952
TechSupport.CnctClctOK on page 4953
TechSupport.ClctRprtOK on page 4954

TechSupport.SendRprtOK

Description

Indicates that a tech support report was successfully sent to the indicated collector. collector: Hostname or IP address of a tech support collector port: TCP port number that the collector is listening dataset: Data set configured for the collector sslmode: Whether SSL is enabled or disabled when connecting to the collector

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Sent a `%dataset%` tech support report successfully to the collector `%collector%:%port%` with SSL `%sslmode%`

Message Parameters

Name	Type
collector	String
port	uInt32

Name	Type
dataset	String
sslmode	String

TechSupport.CnctClctFail

Description

Indicates that an attempt to connect to a tech support collector failed. collector: Hostname or IP address of a tech support collector port: TCP port number that the collector is listening sslmode: Whether SSL is enabled or disabled when connecting to the collector reason: Failure reason

Remedy

The 'show tech-support collector' command can be used to verify configuration of a collector and check status of last report. Make sure that the hostname or IP address of a collector, the TCP port that a collector is listening, and whether SSL is enabled on the TCP port are configured correctly. Once corrected, re-run 'run tech-support report collector' command to send the report again.

Severity

Warning

Message Text

Failed to connect to the collector `%collector%:%port%` with SSL `%sslmode%` (`%reason%`)

Message Parameters

Name	Type
collector	String
port	uInt32
sslmode	String
reason	String

TechSupport.ClctRprtFail

Description

Indicates that an attempt to collect tech support report for a collector failed. collector: Hostname or IP address of a tech support collector port: TCP port number that the collector is listening dataset: Data set configured for the collector reason: Failure reason

Remedy

This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: output of 'show tech-support', and 'show tech-support collector'.

Severity

Error

Message Text

Failed to collect `%dataset%` tech support report for the collector `%collector%`:`%port%` (`%reason%`)

Message Parameters

Name	Type
collector	String
port	uInt32
dataset	String
reason	String

TechSupport.SendRprtFail

Description

Indicates that an attempt to send tech support report to a collector failed. collector: Hostname or IP address of a tech support collector port: TCP port number that the collector is listening dataset: Data set configured for the collector sslmode: Whether SSL is enabled or disabled when connecting to the collector reason: Failure reason

Remedy

The 'show tech-support collector' command can be used to verify configuration of a collector and check status of last report. Make sure that the hostname or IP address of a collector, the TCP port that a collector is listening, and whether SSL is enabled on

the TCP port are configured correctly. Once corrected, re-run 'run tech-support report collector' command to send the report again.

Severity

Error

Message Text

Failed to send the `%dataset%` tech support report to the collector `%collector%:%port%` with SSL `%sslmode%` (`%reason%`)

Message Parameters

Name	Type
collector	String
port	uInt32
dataset	String
sslmode	String
reason	String

TechSupport.CnctClctOK

Description

Indicates that the connection to a tech support collector has been established successfully. collector: Hostname or IP address of a tech support collector port: TCP port number that the collector is listening sslmode: Whether SSL is enabled or disabled when connecting to the collector

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Connected successfully to the collector `%collector%:%port%` with SSL `%sslmode%`

Message Parameters

Name	Type
collector	String
port	uInt32
sslmode	String

TechSupport.ClctRprtOK

Description

Indicates that tech support report for a collector has been collected successfully. collector: Hostname or IP address of a tech support collector port: TCP port number that the collector is listening dataset: Data set configured for the collector

Remedy

No action required - Informational message only.

Severity

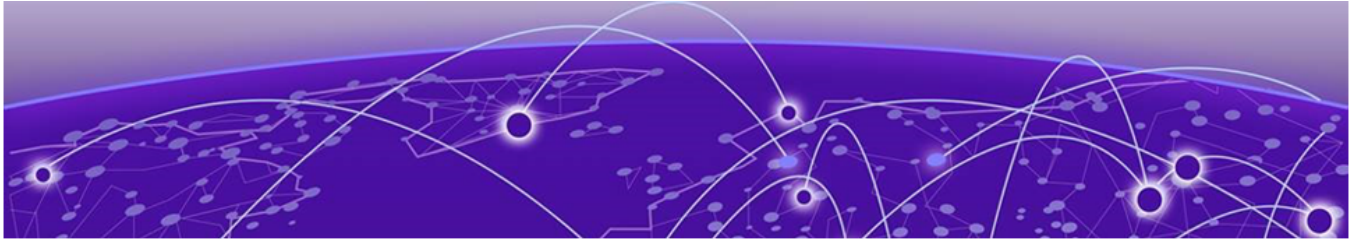
Debug-Summary

Message Text

A `%dataset%` tech support report has been collected for the collector `%collector%:%port%`

Message Parameters

Name	Type
collector	String
port	uInt32
dataset	String



Telemetry messages

cm.TelemetryDebug on page 4955
Telemetry.DebugSummary on page 4956
Telemetry.Error on page 4956
Telemetry.Info on page 4957
Telemetry.Warning on page 4957
Telemetry.DebugVerbose on page 4958

cm.TelemetryDebug

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Telemetry.DebugSummary

Description

Telemetry Debug message displayed when user wishes to view basic debug information.

Remedy

Debug level 1.

Severity

Debug-Summary

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

Telemetry.Error

Description

This message is displayed when a software error has occured.

Remedy

Please contact Extreme Networks with the error message and the conditions under which it occured.

Severity

Error

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

Telemetry.Info

Description

This message is displayed as an informational to the user.

Remedy

Info only.

Severity

Info

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

Telemetry.Warning

Description

This message is displayed to warn the user about a potential erroneous situation.

Remedy

The remedy will depend on the warning. Please correct the situation from the message.

Severity

Warning

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf

Telemetry.DebugVerbose

Description

Telemetry Debug message displayed when user wishes to view most of the debug information.

Remedy

Debug level 2.

Severity

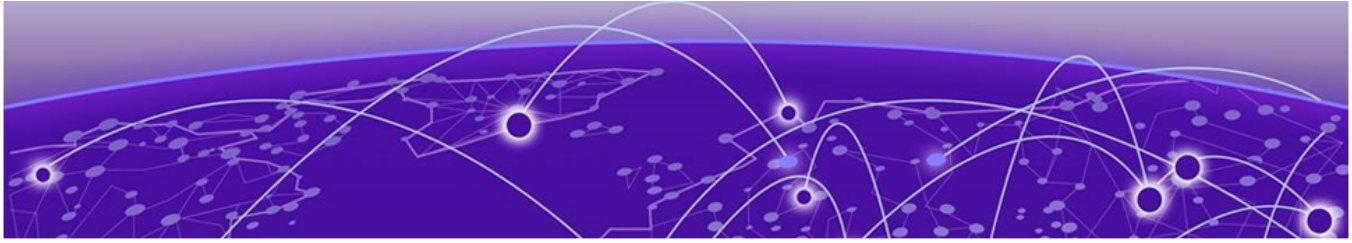
Debug-Verbose

Message Text

```
%logMsg%
```

Message Parameters

Name	Type
logMsg	Printf



telnetd Messages

telnetd.err on page 4959
telnetd.warn on page 4960
telnetd.note on page 4960
telnetd.info on page 4961
telnetd.d0 on page 4961
telnetd.d1 on page 4962
telnetd.d2 on page 4962
telnetd.RejctConnAccessDeny on page 4963
telnetd.NFTDebugVerbose on page 4963

telnetd.err

Description

a telnet server serious error. telnet service will usually not be functional.

Remedy

Please contact support personnel

Severity

Error

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

telnetd.warn

Description

a telnet server warning message. Something unexpected has happened.

Remedy

execution will continue. You may want to report this message to support personnel

Severity

Warning

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

telnetd.note

Description

a telnet server notice. Not an error.

Remedy

no action necessary

Severity

Notice

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

telnetd.info

Description

a telnet server informational message

Remedy

No action is necessasry

Severity

Info

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

telnetd.d0

Description

a telnet server level 1 debug message

Remedy

no action necessary

Severity

Debug-Summary

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

telnetd.d1

Description

a telnet server level 2 debug message

Remedy

no action necessary

Severity

Debug-Verbose

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

telnetd.d2

Description

a telnet server level 3 debug message

Remedy

no action is necessary

Severity

Debug-Data

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

telnetd.RejctConnAccessDeny

Description

Telnet access from the specified source has been rejected by policy file or access-list configured. This particular connection will not be permitted.

Remedy

Check the policy file or access-list associated with the application.

Severity

Warning

Message Text

Telnet connection from source `%address%` has been denied by access-list `%rule%`. Rejecting connection.

Message Parameters

Name	Type
address	String
rule	String

telnetd.NFTDebugVerbose

Description

A condition related to NFTables occurred that may be interesting to a developer or useful for debugging. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required. Informational message only.

Severity

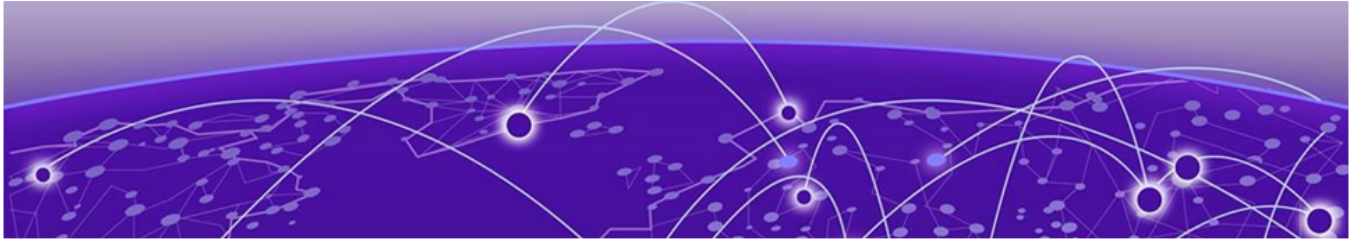
Debug-Verbose

Message Text

```
%msg%
```

Message Parameters

Name	Type
msg	Printf



tftpd Messages

tftpd.err on page 4965
tftpd.warn on page 4966
tftpd.note on page 4966
tftpd.info on page 4967
tftpd.d0 on page 4967
tftpd.d1 on page 4968
tftpd.d2 on page 4968

tftpd.err

Description

a tftp server critical error message.

Remedy

Please contact service personnel. It is likely that the server blades will not boot without this service.

Severity

Error

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

tftpd.warn

Description

a tftp server warning message

Remedy

Execution will continue. You may want to contact support personnel

Severity

Warning

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

tftpd.note

Description

a tftp server notice.

Remedy

no action necessary.

Severity

Notice

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

tftpd.info

Description

a tftp server informational message.

Remedy

no action necessary.

Severity

Info

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

tftpd.d0

Description

a tftp server debug level 1 message.

Remedy

no action necessary.

Severity

Debug-Summary

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

tftpd.d1

Description

a tftp server debug level 2 message

Remedy

no action necessary

Severity

Debug-Verbose

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String

tftpd.d2

Description

a tftp server debug level 3 message

Remedy

no action necessary

Severity

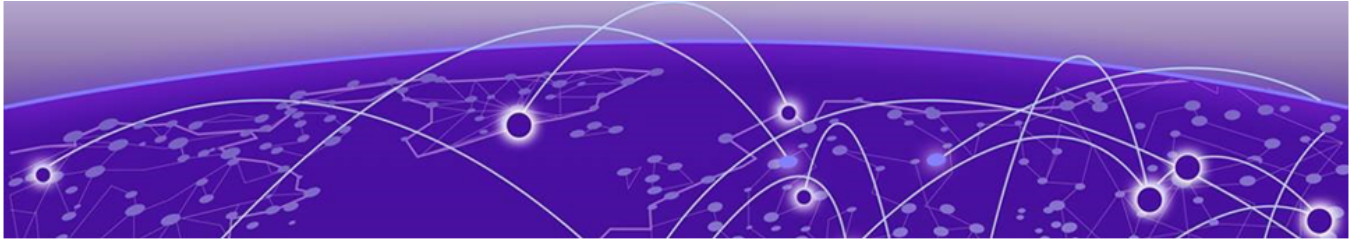
Debug-Data

Message Text

```
%str%
```

Message Parameters

Name	Type
str	String



thttpd Messages

thttpd.RejctConnAccessDeny on page 4970
thttpd.StrtSrvrOK on page 4971
thttpd.StrtSrvrSSLOK on page 4972
thttpd.StopSrvrOK on page 4972
thttpd.StopSrvrSSLOK on page 4973
thttpd.SSLnotRdy on page 4973
thttpd.PrvtKeyInv on page 4974
thttpd.CrtfctPrvtKeyMismatch on page 4974
thttpd.CreatSSLCrtfct on page 4975
thttpd.IntExcpt on page 4976
thttpd.CrtfctInv on page 4977
thttpd.CACrtfctInv on page 4977
thttpd.CrtfctVld on page 4978
thttpd.CACrtfctVld on page 4979
thttpd.PrvtKeyVld on page 4979
thttpd.CrtfctPrvtKeyMatch on page 4980
thttpd.UncfgAllCACrtfct on page 4981
thttpd.CreatCSR on page 4981
thttpd.UncfgCACrtfct on page 4982
thttpd.CrtfctOCSPVld on page 4983
thttpd.CrtfctOCSPInv on page 4983

thttpd.RejctConnAccessDeny

Description

HTTP connection request from the specified source IP-Address has been rejected by the configured access-list. This connection will not be permitted.

Remedy

Check the access-list associated with the application. Verify the rule order is correct. Use 'debug thttpd show access-profile' to view the order of access-list execution. Use 'show access-list dynamic rule <rule-name>', where rule-name is the name of the rule in the log message, to see the access-list that blocked the source IP.

Severity

Warning

Message Text

HTTP connection request from the source `%address%` has been denied by the access-list `%rule%`. Rejecting connection.

Message Parameters

Name	Type
address	String
rule	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.StrtSrvrOK

Description

Web server has started.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Web server has started on TCP port `%port%`.

Message Parameters

Name	Type
port	L4port

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.StrtSrvrSSLOK

Description

Web server has started with SSL support.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Web server has started with SSL support. HTTPS is enabled.

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.StopSrvrOK

Description

Web server has stopped.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Web server has stopped.

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.StopSrvrSSLOK

Description

Web server is no longer SSL-enabled.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Web server SSL support has stopped.

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.SSLnotRdy

Description

HTTP SSL support has been enabled, but either the Private Key or the Certificate have not been configured yet, or have been misconfigured.

Remedy

Properly configure the Private Key and the Certificate

Severity

Notice

Message Text

HTTP SSL support has been enabled, but Private Key or Certificate are not configured yet.

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.PrvtKeyInv

Description

The provided SSL Private Key is not valid

Remedy

Provide a valid SSL Private Key which meets the following: - key must have correct passphrase - key must be less than 4KB

Severity

Warning

Message Text

The provided SSL Private Key is not valid. Reason: `%reason%`.

Message Parameters

Name	Type
reason	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.CrtfctPrvtKeyMismatch

Description

Provided SSL Private Key does not match the provided SSL Certificate.

Remedy

Provide the matching SSL Private Key and Certificate

Severity

Warning

Message Text

SSL Private Key does not match SSL Certificate. Reason: `%reason%`.

Message Parameters

Name	Type
reason	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.CreatSSLCrtfct

Description

Creating SSL Certificate and Private Key from the provided key length, country code, organization name, and common name.

Remedy

No action required - Information message only.

Severity

Info

Message Text

Creating SSL certificate with key length: `%len%`, country code: `%cc%`, organization: `%org%`, CN: `%cname%`

Message Parameters

Name	Type
len	sInt
cc	String
org	String
cname	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.IntExcpt

Description

HTTPD process ran into an exception. The exception is printed for debugging purposes

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Process has generated an exception: `%exception%`

Message Parameters

Name	Type
exception	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.CrtfctInv

Description

The provided SSL certificate is not valid.

Remedy

Provide a valid SSL certificate which meets the following: - certificate must be in PEM format - certificate must be less than 8KB

Severity

Warning

Message Text

The provided SSL certificate is not valid. Reason: `%reason%`

Message Parameters

Name	Type
reason	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.CACrtfctInv

Description

The provided CA certificate is not valid.

Remedy

Provide a valid Trusted-ca/OCSP signature-ca certificate which meets the following: - certificate must be in PEM format - certificate must be less than 8KB - key usage must be available - key cert sign must be present in key usage - basic constraints must be available - notBefore and notAfter options must be valid

Severity

Warning

Message Text

The provided CA certificate is not valid. Reason: `%reason%`

Message Parameters

Name	Type
reason	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.CrtfctVld

Description

The provided SSL certificate is valid. This is a general event which will be used during verification of SSL certificate in all the below cases: - Pasting of self-signed/CA-signed SSL certificate in the CLI "configure ssl certificate pregenerated" - Downloading of self-signed/CA-signed SSL certificate using CLI "download ssl <ip> cert <file>" - Generation of Self-signed SSL certificate

Remedy

No action required - Notification message only

Severity

Notice

Message Text

The provided SSL certificate (CN:`%c_name%`) is valid.

Message Parameters

Name	Type
c_name	String

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator

thttpd.CACrtfctVld

Description

The provided CA certificate is valid. This is a general event which will be used during verification of CA certificates in the below case: - Downloading of trusted/ocsp-signature CA certificate using CLI "download ssl <ip> cert trusted-ca|ocsp-signature-ca <file>"

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

The provided CA certificate (CN:`%c_name%`) is valid.

Message Parameters

Name	Type
c_name	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.PrvtKeyVld

Description

The provided SSL private key is valid. This is a general event and will be used at the time of: - Generation of self-signed certificate/private-key pair - Generation of CSR/private-key pair - Pasting of private-key using CLI "configure ssl privkey pregenerated" - Downloading of private-key using "download ssl..." command

Remedy

No action required - Information message only.

Severity

Info

Message Text

The provided SSL private key is valid.

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.CrtfctPrvtKeyMatch

Description

The SSL private key - certificate pair matches.

Remedy

No action required - Notification message only.

Severity

Info

Message Text

SSL private key and SSL certificate (CN:`%c_name%`) matches.

Message Parameters

Name	Type
c_name	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.UncfgAllCACrtfct

Description

All the Trusted/OCSP-signature CA certificate(s) have been unconfigured successfully.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

All the Trusted/OCSP-signature CA certificate(s) have been unconfigured successfully.

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.CreatCSR

Description

Creating CSR and Private Key from the provided key length, country code, organization and common-name.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Creating CSR with key length: `%len%`, country code: `%cc%`, organization: `%org%`, CN: `%cname%`.

Message Parameters

Name	Type
len	sInt
cc	String
org	String
cname	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.UncfgCACrtfct

Description

The specified CA certificate has been unconfigured successfully.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

The specified CA certificate (CN:`%c_name%`) has been unconfigured successfully.

Message Parameters

Name	Type
c_name	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

thttpd.CrtfctOCSPVld

Description

The provided SSL certificate's OCSP status is good. This is a general event which will be used during verification of SSL certificate signed through CSR generated in switch, in all the below cases: - Pasting of CA-signed SSL certificate in the CLI "configure ssl certificate pregenerated" - Downloading of CA-signed SSL certificate using CLI "download ssl <ip> cert <file>"

Remedy

No action required - Notification message only

Severity

Notice

Message Text

The provided SSL certificate's (CN:`%c_name%`) online revocation status is good

Message Parameters

Name	Type
c_name	String

thttpd.CrtfctOCSPInv

Description

Online certificate revocation status verification failed.

Remedy

Given certificate is revoked Unable to perform the verification

Severity

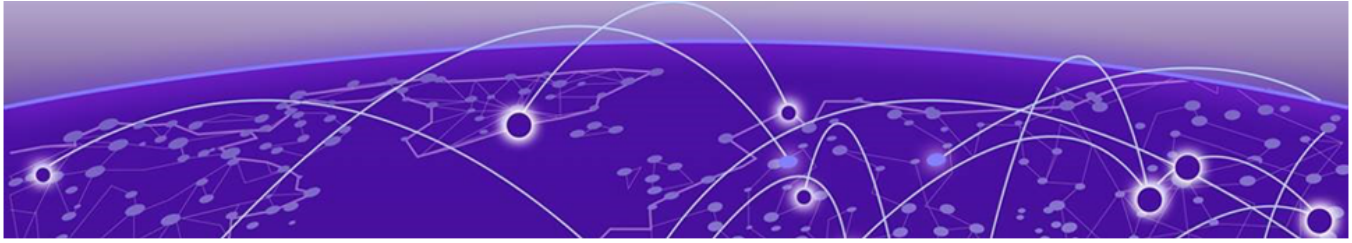
Warning

Message Text

The provided SSL certificate's (CN:`%c_name%`) online revocation status is invalid. Reason: `%reason%`

Message Parameters

Name	Type
c_name	String
reason	String



trace Messages

trace.TraceThis on page 4985

trace.TraceThis

Description

This is a debug message used by engineering.

Remedy

This is an Engineering test message and should never appear in real life. If you do get one, please contact Extreme Networks Technical Support. Engineering will need to get involved to figure out why the specific message is appearing.

Severity

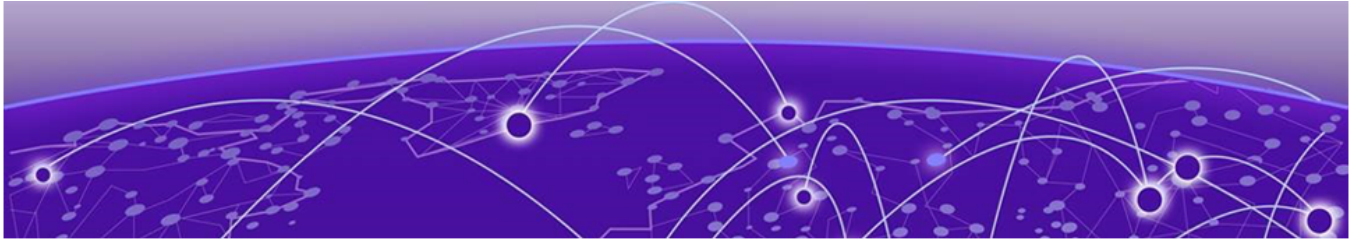
Debug-Summary

Message Text

`%par%`

Message Parameters

Name	Type
par	Printf



UPM Messages

UPM.Init on page 4986

UPM.Init

Description

When the application get initialized this message is generated.

Remedy

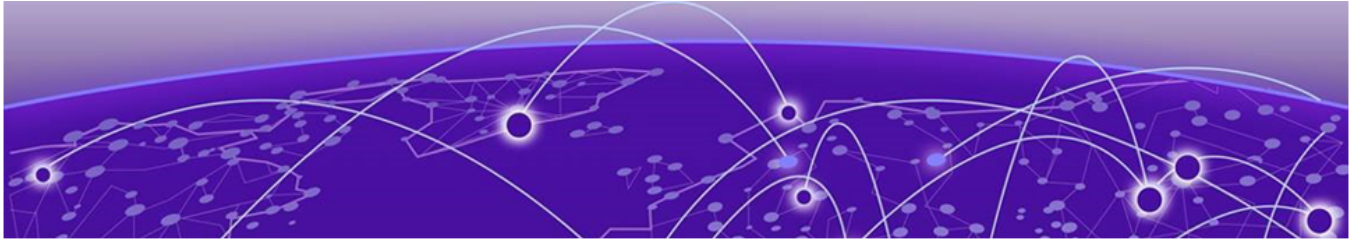
This is an informational message

Severity

Info

Message Text

UPM application initialized



UPM.Msg Messages

UPM.Msg.UserAuthenticated on page 4988
UPM.Msg.UserUnauthenticated on page 4988
UPM.Msg.LLDPDevDetected on page 4989
UPM.Msg.LLDPDevRemoved on page 4990
UPM.Msg.VlanNotFound on page 4990
UPM.Msg.PortNotFound on page 4991
UPM.Msg.ProfileNotFoundVsa on page 4992
UPM.Msg.EventNotFound on page 4992
UPM.Msg.FnParamSyntaxErr on page 4993
UPM.Msg.upmNotCfgForEvent on page 4993
UPM.Msg.msgRecvHandler on page 4994
UPM.Msg.upmMsgExshLaunch on page 4995
UPM.Msg.upmMsgExshLaunchStsOk on page 4995
UPM.Msg.upmMsgExshLaunchStsFail on page 4996
UPM.Msg.portNotCfgUpmEvent on page 4996
UPM.Msg.eventQueuedUp on page 4997
UPM.Msg.dmIpmlErr on page 4997
UPM.Msg.unknownProfileDm on page 4998
UPM.Msg.exshLaunchStsFailLoop on page 4999
UPM.Msg.eventDroppedAuthNotRun on page 4999
UPM.Msg.snmpTrapOnProfileExec on page 5000
UPM.Msg.profileMissCfg on page 5000
UPM.Msg.upmEventQInfo on page 5001
UPM.Msg.upmEventQFull on page 5001
UPM.Msg.DscvrIdOnPort on page 5002
UPM.Msg.RemIdFrmPort on page 5003
UPM.Msg.AssocIdToRole on page 5003
UPM.Msg.DisassocIdFmRole on page 5004
UPM.Msg.ProfExecDlayForSave on page 5005

UPM.Msg.UserAuthenticated

Description

This message is generated when a user is authenticated on a port.

Remedy

This is a informational message

Severity

Notice

Message Text

User `%userName%` authenticated on machine whose IP is `%ipaddr%`, mac is `%macaddr%`, vlan `%vlanName%`, port `%slotPort%`, VSA is `%vsa%`

Message Parameters

Name	Type
userName	String
ipaddr	IP
macaddr	srcMAC
vlanName	String
slotPort	SlotPort
vsa	String

UPM.Msg.UserUnauthenticated

Description

This message is generated when a user is unauthenticated on a port

Remedy

This is a informational message.

Severity

Notice

Message Text

User `%userName%` logged off on machine whose IP is `%ipaddr%`, mac is `%macaddr%`, vlan `%vlanName%`, port `%slotPort%`, VSA is `%vsa%`

Message Parameters

Name	Type
userName	String
ipaddr	IP
macaddr	srcMAC
vlanName	String
slotPort	SlotPort
vsa	String

UPM.Msg.LLDPDevDetected

Description

A LLDP device-detect on the port

Remedy

This is a informational message.

Severity

Notice

Message Text

LLDP Device detected. Mac is `%mac%`, IP is `%ipaddr%`, on port `%slotPort%`, device type is `%type%`, max power is `%power%`

Message Parameters

Name	Type
mac	srcMAC
ipaddr	IP
slotPort	SlotPort
type	uInt32
power	uInt32

UPM.Msg.LLDPDevRemoved

Description

A LLDP device-undetect on the port

Remedy

This is a informational message.

Severity

Notice

Message Text

LLDP Device Removed. Mac is `%mac%`, IP is `%ipaddr%`, on port `%slotPort%`, device Type is `%type%`

Message Parameters

Name	Type
mac	srcMAC
ipaddr	IP
slotPort	SlotPort
type	uInt32

UPM.Msg.VlanNotFound

Description

UPM did not find the VLAN with the given instance. Interface issue with other applications

Remedy

Please get in touch with Extreme Networks Technical support report the message, and provide any additional information related to this failure. This information needs to be supplied to Engineering, if possible in combination with a core dump.

Severity

Error

Message Text

Func: `%fn%`, Line: `%ln%`, VLAN with `%vlanInstance%` instance not found on UPM.

Message Parameters

Name	Type
fn	String
ln	uInt32
vlanInstance	uInt32

UPM.Msg.PortNotFound

Description

UPM did not find the port with the given port instance. Interface issue with other applications

Remedy

Please get in touch with Extreme Networks Technical support report the message, and provide any additional information related to this failure. This information needs to be supplied to Engineering, if possible in combination with a core dump.

Severity

Debug-Summary

Message Text

Func: `%fn%`, Line: `%ln%`, Port with `%portInstance%` instance not found on UPM.

Message Parameters

Name	Type
fn	String
ln	uInt32
portInstance	uInt32

UPM.Msg.ProfileNotFoundVsa

Description

UPM did not find the profile with the given name. Possible misconfiguration on Radius server

Remedy

Please check the name of profile on Radius server and UPM configuration. Profiles name must match.

Severity

Warning

Message Text

Aborted event by UPM. Profile not found in the VSA string `%vsa%` from radius server. Expected format - profile VLAN=test;QOS=qp1;LOGOFF-PROFILE=xyz;

Message Parameters

Name	Type
vsa	String

UPM.Msg.EventNotFound

Description

UPM did not find the EVENT. Message interface issue with UPM client application and UPM

Remedy

Please get in touch with Extreme Networks Technical support report the message, and provide any additional information related to this failure. This information needs to be supplied to Engineering, if possible in combination with a core dump.

Severity

Critical

Message Text

UPM does not understand the command %cmd% on line %lineno% in function %fn%

Message Parameters

Name	Type
cmd	uInt32
lineno	uInt32
fn	String

UPM.Msg.FnParamSyntaxErr

Description

UPM Programming issue. Invalid Param

Remedy

Please get in touch with Extreme Networks Technical support report the message, and provide any additional information related to this failure. This information needs to be supplied to Engineering, if possible in combination with a core dump.

Severity

Debug-Summary

Message Text

Fn: %fn%, Line: %ln%, params Error

Message Parameters

Name	Type
fn	String
ln	uInt32

UPM.Msg.upmNotCfgForEvent

Description

UPM Programming issue. Invalid Param

Remedy

Please get in touch with Extreme Networks Technical support report the message, and provide any additional information related to this failure. This information needs to be supplied to Engineering, if possible in combination with a core dump.

Severity

Warning

Message Text

Upm did not find Profile `%profile%` configured for the `%eventName%`

Message Parameters

Name	Type
profile	String
eventName	String

UPM.Msg.msgRecvHandler

Description

UPM Programming issue. Invalid Param

Remedy

The message is for debug purposes only, and needs to be supplied to Engineering, if possible in combination with a core dump.

Severity

Debug-Summary

Message Text

Upm recvd a message `%cmd%`

Message Parameters

Name	Type
cmd	String

UPM.Msg.upmMsgExshLaunch

Description

Message produced when UPM launches the profile

Remedy

Informational Message to the user know that a profile has been launched

Severity

Notice

Message Text

Launched profile `%name%` for the event `%event%`

Message Parameters

Name	Type
event	String
name	String

UPM.Msg.upmMsgExshLaunchStsOk

Description

Troubleshoot message UPM Programming

Remedy

The message is for debug purposes only. Status of profile execution is OK.

Severity

Debug-Summary

Message Text

Profile `%name%` execution return SUCCESS on event `%event%`

Message Parameters

Name	Type
event	String
name	String

UPM.Msg.upmMsgExshLaunchStsFail

Description

Troubleshoot message UPM Programming

Remedy

The message is produced when the status of profile execution is not OK. Please check the syntax of the profile contents

Severity

Error

Message Text

Profile execution returned FAIL on event `%event%`, profile `%name%`

Message Parameters

Name	Type
event	String
name	String

UPM.Msg.portNotCfgUpmEvent

Description

Troubleshoot message UPM Programming

Remedy

The message is produced when the port is not configured in UPM for a event. This is not a error condition.

Severity

Debug-Summary

Message Text

Port `%port%` is not configured for the event `%event%`

Message Parameters

Name	Type
event	String
port	SlotPort

UPM.Msg.eventQueuedUp

Description

Troubleshoot message UPM Programming

Remedy

The message is produced when the port is not configured in UPM for a event. This is not a error condition.

Severity

Info

Message Text

Event `%event%` on port `%port%` queued up for execution

Message Parameters

Name	Type
event	String
port	SlotPort

UPM.Msg.dmIpmlErr

Description

Troubleshoot message UPM Programming

Remedy

The message is produced when the UPM cannot write to the backup.

Severity

Critical

Message Text

writeBackup failed with `%status%`. Msg is `%cmd%`. Msg size `%size%`.

Message Parameters

Name	Type
status	sInt
cmd	uInt32
size	uInt32

UPM.Msg.unknownProfileDm

Description

Troubleshoot message UPM Programming

Remedy

The message is produced when the UPM on backup cannot find the profile.

Severity

Critical

Message Text

Unknown profile from chk pointing `%profile%`, msg `%cmd%`

Message Parameters

Name	Type
profile	String
cmd	uInt32

UPM.Msg.exshLaunchStsFailLoop

Description

Troubleshoot message UPM Profile

Remedy

The message is produced when the UPM profile detects a loop condition in profile

Severity

Critical

Message Text

Possible Loop condition on UPM profile `%profile%`, event - `%name%`

Message Parameters

Name	Type
profile	String
name	String

UPM.Msg.eventDroppedAuthNotRun

Description

Troubleshoot message UPM Profile

Remedy

The message is produced when the UPM profile detects a loop condition in profile

Severity

Warning

Message Text

User-Unauthenticated event was dropped as User-Authenticated did not run earlier on the port `%port%`

Message Parameters

Name	Type
port	SlotPort

UPM.Msg.snmpTrapOnProfileExec

Description

Troubleshoot message UPM Profile execution SNMP

Remedy

Sent before UPM sends a SNMP trap

Severity

Debug-Data

Message Text

Sending a trap to signal a profile `%profile%` execution on event `%event%`, port `%port%` with execId `%id%` and status `%sts%`

Message Parameters

Name	Type
profile	String
event	String
port	SlotPort
id	sInt
sts	sInt

UPM.Msg.profileMissCfg

Description

UPM did not find the profile with the given name. Possible misconfiguration from ems - Log

Remedy

Please check the name of profile in UPM configuration.

Severity

Error

Message Text

UPM Profile `%profile_name%` not found in the UPM configuration

Message Parameters

Name	Type
profile_name	String

UPM.Msg.upmEventQInfo

Description

Messages are queued up. A messsage is logged after every 25 (multiple of 25)

Remedy

Expect the profile to run after some time

Severity

Info

Message Text

Current UPM Event Queue length is `%len%` messages(Logged after every 25 msgs)

Message Parameters

Name	Type
len	sInt

UPM.Msg.upmEventQFull

Description

Messages are queued up. The rate of event generation is too high for the system to launch the UPM profiles.

Remedy

Expect the profile to run after some time

Severity

Warning

Message Text

Maximum UPM Event Queue length supported is `%len%` messages. Dropping Messages from Client Applications.

Message Parameters

Name	Type
len	sInt

UPM.Msg.DscvrIdOnPort

Description

A new identity has been discovered on the port.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Identity \"`%identityName%`\" with MAC is `%mac%`, IP is `%ipaddr%` discovered on port `%slotPort%`

Message Parameters

Name	Type
identityName	String
mac	srcMAC
ipaddr	IP
slotPort	SlotPort

UPM.Msg.RemIdFrmPort

Description

An Identity got removed from the port.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Identity \"`%identityName%`\" with MAC is `%mac%`, IP is `%ipaddr%` removed from port `%slotPort%`

Message Parameters

Name	Type
identityName	String
mac	srcMAC
ipaddr	IP
slotPort	SlotPort

UPM.Msg.AssocIdToRole

Description

An Identity discovered is associated to role based on attributes of identity to role's match-criteria.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Identity \"%identityName%\" with MAC: %mac% IP: %ipaddr% on port %slotPort% and on vlan \"%vlanName%\" is associated to role \"%roleName%\"

Message Parameters

Name	Type
identityName	String
mac	srcMAC
ipaddr	IP
slotPort	SlotPort
roleName	String
vlanName	String

UPM.Msg.DisassocIdFmRole

Description

An Identity is dissociated from role.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Identity \"%identityName%\" with MAC: %mac% on port %slotPort% and on vlan \"%vlanName%\" is dissociated from role \"%roleName%\"

Message Parameters

Name	Type
identityName	String
mac	srcMAC
ipaddr	IP
slotPort	SlotPort

Name	Type
roleName	String
vlanName	String

UPM.Msg.ProfExecDlayForSave

Description

UPM profile execution is delayed due to system configuration save operation. The profile execution will start once the save operation completes.

Remedy

No action required - Informational message only.

Severity

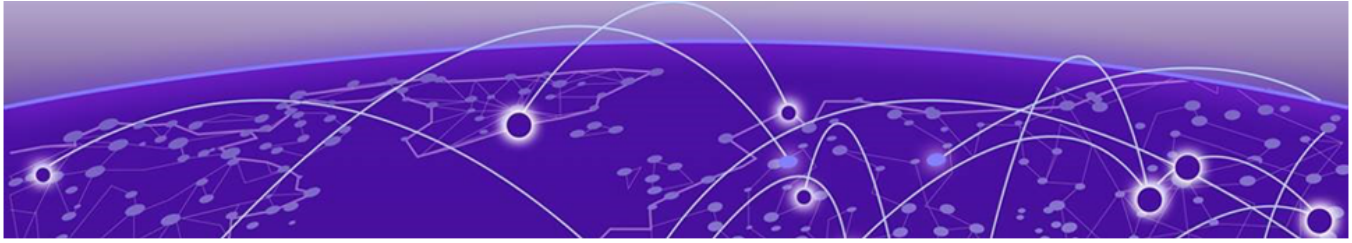
Info

Message Text

Configuration save is in progress. UPM profile execution is delayed for profile \"`%profileName%`\".

Message Parameters

Name	Type
profileName	String



uRPF Messages

uRPF.DropIngrPkt on page 5006

uRPF.DropIngrPkt

Description

A unicast RPF packet was dropped as a match was not found in the routing table. For packet details see the log message content.

Remedy

This is an information message, and was received due to user configuration.

Severity

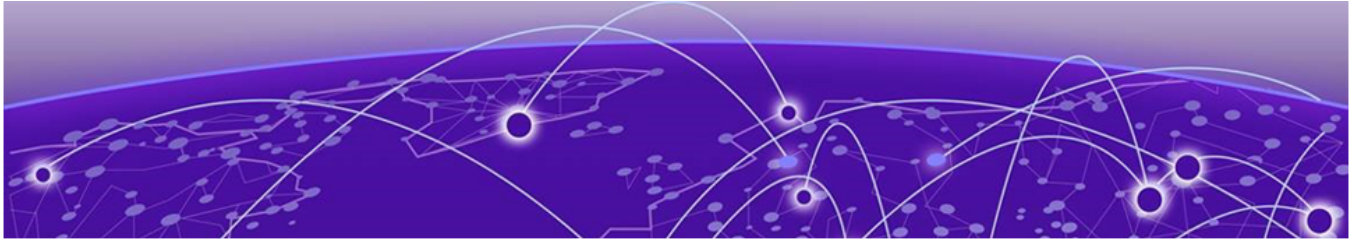
Info

Message Text

Unicasr Reverse-Path dropped a packet from `%sip%` to `%dip%` received on vlan `%vlan%` port `%port%`

Message Parameters

Name	Type
port	ingressSlotPort
vlan	VLAN
sip	srcIPN
dip	dstIPN



VirtMgr Messages

VirtMgr.Error on page 5007
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VirtMgr.Notice on page 5008
VirtMgr.Info on page 5009
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VirtMgr.HndlLibVirtWarn on page 5016

VirtMgr.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VirtMgr.Warning

Description

An abnormal condition has been detected which, although it is not interfering with the normal operation of the system, may signal that the system or the network in general may not be functioning as expected. The condition may have been caused by an unusual or unexpected circumstance related to some external stimulus.

Remedy

The exact remedy is dependent on the particular situation; but the problem may have been resolved by rejecting the request or performing some default action.

Severity

Warning

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VirtMgr.Notice

Description

A normal but significant condition has been detected, which signals that the system is functioning as expected. The condition is somewhat uncommon, but it is not necessarily unusual or unexpected.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VirtMgr.Info

Description

A normal but potentially interesting condition has been detected, which signals that the system is functioning as expected and simply provides potentially detailed information or confirmation in that regard. The circumstance is common and not unusual or unexpected in any way.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VirtMgr.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or

completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VirtMgr.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VirtMgr.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VirtMgr.ShellCmdFail

Description

A problem was encountered when running a shell command. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource. The arguments for this event are: - shellCommand: Shows the shell command which failed to execute. - errorMessage: The reason for the command failure.

Remedy

The exact remedy is dependent on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

Failed to execute shell command `%shellCommand%`: `%errorMessage%`.

Message Parameters

Name	Type
shellCommand	String
errorMessage	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

VirtMgr.MntStrgFail

Description

This event occurs when there is a failure to mount the storage filesystem. The arguments for this event are: - deviceName: The filesystem to be attached from. - directory: The filesystem found on device is attached at this directory. - errorMessage: The reason for the mount failure. The problem may be due to one of the following: - Mounting a read only file system. - Source is already mounted. - Filesystem type not configured. - Source is not a block device. - Target is not valid directory. - Invalid privileges.

Remedy

Check if the disk is partitioned properly. In the shell use command "lsblk" and check if the device sda/sdb has two partitions sda1, sda2 (or sdb1,sdb2). If not the disk needs to be partitioned correctly. Check if the disk is formatted properly with ext4 filesystem type. Use "clear vm storage" CLI command to reformat and remount the directories. (Note: This will destroy any data currently on the device) If the disk is partitioned and formatted properly then restarting the switch will resolve the issue. If the issue still persists contact technical support with the above details.

Severity

Error

Message Text

Unable to mount the storage filesystem `%deviceName%`, `%directory%`: `%errorMessage%`

Message Parameters

Name	Type
deviceName	String
directory	String
errorMessage	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

VirtMgr.UnmntStrgFail

Description

This event occurs when there is a failure to unmount the storage filesystem. The arguments for this event are: - directory: The directory from which the filesystem is to be disassociated from its mount point. - errorMessage: The reason for the unmount failure. The problem may be due to one of the following: - Target could not be mounted because it is busy. - Target is not a mount point. - Invalid privileges.

Remedy

Check if the disk is partitioned properly. In the shell use command "lsblk" and check if the sda/sdb has two partitions sda1, sda2 (or sdb1, sdb2). If not the disk needs to be partitioned correctly. This event also occurs when the disk is busy so make sure all domains are shutdown (use command "virsh list --all" in shell) and the libvirt deamons are killed (Use command "ps | grep libvirtd" in shell) before unmounting the disk. The problem may be resolved by restarting the virtMgr process or by restarting the switch.

Severity

Warning

Message Text

Failure to unmount the `%directory%` filesystem. `%errorMessage%`

Message Parameters

Name	Type
directory	String
errorMessage	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

VirtMgr.SysCallFail

Description

This event occurs when there is a failure in making system calls like mkdir, chown, symlink. The arguments to this event are: - command: The command which failed to execute (e.g. mkdir, chown, symlink). - errorMsg: The reason for the failure of the command. The probable reasons for the failure are: - Invalid permissions of the parent directory - Pathname already exists - Insufficient kernel memory available. - Pathname points outside your accessible address space. - Pathname refers to a read-only filesystem

Remedy

Check if the disk is partitioned properly. In the shell use command "lsblk" and check if the sda/sdb has two partitions sda1, sda2 (or sdb1,sdb2). If not the disk needs to be partitioned correctly. Check if the disk is mounted and formatted (with ext4 filesystem) properly. Use "clear vm storage" CLI command to reformat and remount the directories. (Note: This will destroy any data currently on the device)

Severity

Error

Message Text

Error executing command `%command%`. `%errorMsg%`

Message Parameters

Name	Type
command	String
errorMsg	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

VirtMgr.HndlLibVirtErr

Description

This event occurs when the libvirt global error handling function is called and virErrorLevel indicates an error has been raised (i.e. VIR_ERR_ERROR) most likely due to an API call. The arguments for this event are: - errorMessage: Provides the reason for the failure. - errorCode: The virErrorNumber from the virterror module of libvirt API. - errorDomain: The virErrorDomain from the virterror module of libvirt API. For further details on the virterror module please check the link https://libvirt.org.

Remedy

The exact remedy is dependent on the particular situation. Check if the virtMgr process is running. If not then check if the libvirt deamon is running on shell (Use command "ps | grep libvirtd"). If the libvirt deamon is running then start the virtMgr process using CLI command "start process virtMgr". Fetch the debug logs and the CLI command which failed to execute (if any) and contact technical support. If the virtMgr process is not running and if the libvirt deamon is not running too, then restart the switch. Fetch the core dump and the debug logs and contact technical support. - To fetch debug logs configure the log filter as shown below before reproducing the issue. "configure log filter DefaultFilter add events VirtMgr severity debug-summary". - Reproduce the issue and fetch the logs using "show log" command. - To get the core dumps, restart the switch and fetch the latest core dump file (core.virtMgr.xxxx.s-1.gz) generated at "/usr/local/tmp" (internal memory) folder. - Use "tftp put <ip-address> core.virtMgr.xxxx.s-1.gz <remote-file>" to save the core dump to the desired location.

Severity

Error

Message Text

Handling a libvirt error: `%errorMessage%` (virErrorNumber: `%errorCode%`, virErrorDomain: `%errorDomain%`)

Message Parameters

Name	Type
errorMessage	String
errorCode	uInt
errorDomain	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

VirtMgr.HndlLibVirtWarn

Description

This event occurs when the libvirt global error handling function is called and virErrorLevel indicates a warning has been raised (i.e. VIR_ERR_WARNING) most likely due to an API call. The arguments for this event are: - errorMessage: Provides the reason for the failure. - errorCode: The virErrorNumber from the virterror module of libvirt API. - errorDomain: The virErrorDomain from the virterror module of libvirt API. For further details on the virterror module please check the link https://libvirt.org.

Remedy

Check if the virtMgr process is running. If not then check if the libvirt deamon is running on shell (Use command "ps | grep libvirtd"). If the libvirt deamon is running then start the virtMgr process using CLI command "start process virtMgr". Fetch the debug logs and the CLI command which failed to execute (if any) and contact technical support. If the virtMgr process is not running and if the libvirt deamon is not running too, then restart the switch. Fetch the core dump and the debug logs and contact technical support. - To fetch debug logs, configure the log filter as shown below before reproducing the issue. "configure log filter DefaultFilter add events VirtMgr severity debug-summary". - Reproduce the issue and fetch the logs using "show log" command. - To get the core dumps, restart the switch and fetch the latest core dump file (core.virtMgr.xxxx.s-1.gz) generated at "/usr/local/tmp" (internal memory) folder. - Use "tftp put <ip-address> core.virtMgr.xxxx.s-1.gz <remote-file>" to save the core dump to the desired location.

Severity

Warning

Message Text

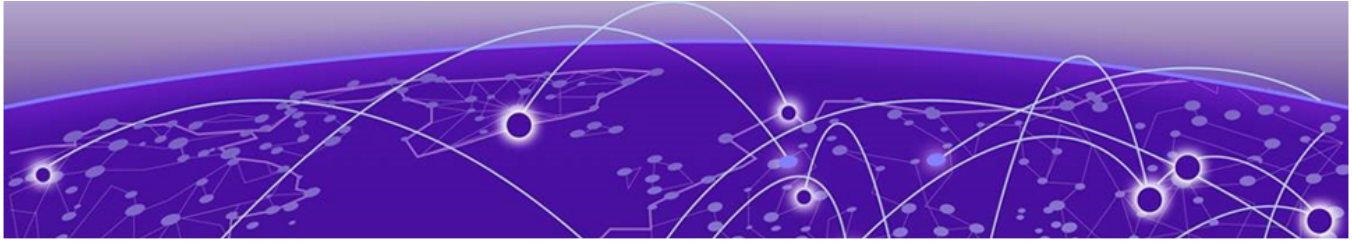
Handling a libvirt warning: `%errorMessage%` (virErrorNumber: `%errorCode%`, virErrorDomain: `%errorDomain%`)

Message Parameters

Name	Type
errorMessage	String
errorCode	uInt
errorDomain	uInt

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



vlan Messages

vlan.Init on page 5018
vlan.CfgIPMTUExcdRcmndIPMTU on page 5018
vlan.CfgVLANAddPortOK on page 5019
vlan.CfgVLANDelPortOK on page 5020
vlan.LAGMinActvLinkAchv on page 5020
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vlan.AddIPAddrFail on page 5022
vlan.SndSockFail on page 5023

vlan.Init

Description

Enter optional Description here

Remedy

Enter optional Remedy here

Severity

Debug-Summary

Message Text

Vlan Mgr application started

vlan.CfgIPMTUExcdRcmndIPMTU

Description

The event is observed when the switch reboots with a configured value that exceeds the recommended value of IPMTU or when the user attempts to configure such a value. There are two parameters - configuredIpmtu is what the user is trying to configure, validIpmtu - is the ipmtu that will not exceed the jumbo frame size.

Remedy

Recommend changing the ip-mtu value to the one that is supported using "configure ip-mtu value .." command.

Severity

Warning

Message Text

The IP-MTU size `%configuredIpmtu%` for vlan `%vlanName%` may be too large for jumbo-frame-size `%jumbosize%`. IP packets larger than `%validIpmtu%` may be lost.

Message Parameters

Name	Type
configuredIpmtu	uInt32
vlanName	String
jumbosize	uInt32
validIpmtu	uInt32

vlan.CfgVLANAddPortOK

Description

The addition of a port to a VLAN was successfully configured.

Remedy

No remedy is available.

Severity

Info

Message Text

Port `%port%` added to VLAN `%vlan%` `%taggedness%`.

Message Parameters

Name	Type
port	String
vlan	VLAN
taggedness	String

vlan.CfgVLANDelPortOK

Description

The deletion of a port from a VLAN was successfully configured.

Remedy

No remedy is available.

Severity

Info

Message Text

Port `%port%` deleted from VLAN `%vlan%`.

Message Parameters

Name	Type
port	String
vlan	VLAN

vlan.LAGMinActvLinkAchv

Description

The minimum number of active links required for LAG to come up has been reached.

Remedy

No action required - Informational message only

Severity

Notice

Message Text

LAG `%port%` with `%totalMembers%` member ports has reached the minimum `%threshold%` active links.

Message Parameters

Name	Type
port	String
threshold	uInt8
totalMembers	uInt8

vlan.LAGMinActvLinkNotMntn

Description

The number of active links has fallen below the minimum required for the LAG to remain up.

Remedy

Check to make sure links are active via show port sharing command

Severity

Warning

Message Text

The number of active links for LAG `%port%` with `%totalMembers%` member ports has fallen below the minimum `%threshold%` active links required for the LAG to remain up.

Message Parameters

Name	Type
port	String
threshold	uInt8
totalMembers	uInt8

vlan.AddIPAddrFail

Description

The specified IP address from the specified application cannot be installed on the specified VLAN because of the specified error.

Remedy

Correct the error indicated by Error_Msg. Error_Msg is the same message that would be displayed on the command line. The most likely error is that the requested IP address conflicts with an existing address: either remove the existing address, or change the requested address (e.g., change the DHCP server to assign a different address). The next most likely error is that the switch's capacity for IP addresses (either the number of IP addresses on the specified VLAN or tunnel, or the number of VLANs and tunnels with IP addresses) has been reached: either remove an address from the specified VLAN or tunnel, or remove all addresses from some other VLAN or tunnel. Last is an invalid requested IP address (e.g., loopback address, broadcast address, multicast address, and invalid mask or prefix length): change the source of the requested address to specify a valid unicast IP address.

Severity

Error

Message Text

Failed to add IP addr `%IP_Addr%`/`%Mask_or_Prefix_Len%` from `%Appl_Name%` to VLAN `%VLAN_Name%`, `%Error_Msg%`

Message Parameters

Name	Type
IP_Addr	IPaddr
Mask_or_Prefix_Len	String
Appl_Name	String
VLAN_Name	String
Error_Msg	String

vlan.SndSockFail

Description

VLAN manager failed to send a message on a communication channel which interfaces with the system. Details about the failure are included in the error message.

Remedy

When this happens VLAN manager will not be able to function as expected. This is an unexpected internal condition needing technical assistance. Contact technical support with the output of 'show tech'.

Severity

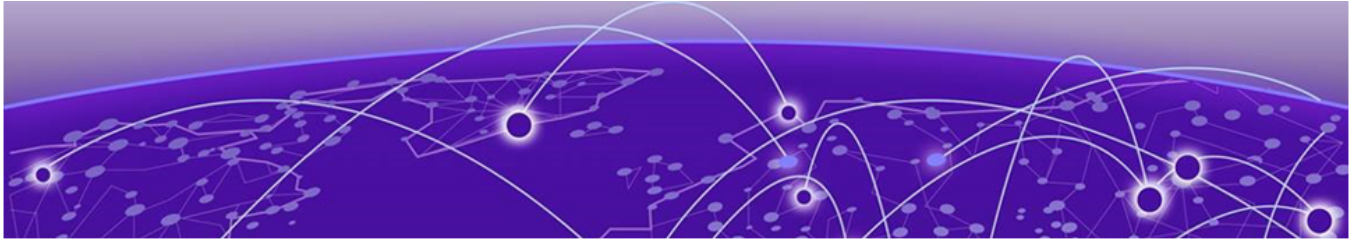
Error

Message Text

Failed to send message. Error: `%errormsg%`

Message Parameters

Name	Type
errormsg	String



vlan.ack Messages

vlan.ack.msg on page 5024
vlan.ack.timing on page 5024
vlan.ack.warn on page 5025
vlan.ack.pend on page 5025

vlan.ack.msg

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%str%
```

Message Parameters

Name	Type
str	Printf

vlan.ack.timing

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%str%
```

Message Parameters

Name	Type
str	Printf

vlan.ack.warn

Description

Any warning message for in ack handling

Remedy

None required

Severity

Warning

Message Text

```
%str%
```

Message Parameters

Name	Type
str	Printf

vlan.ack.pend

Description

No description is available.

Remedy

No remedy is available.

Severity

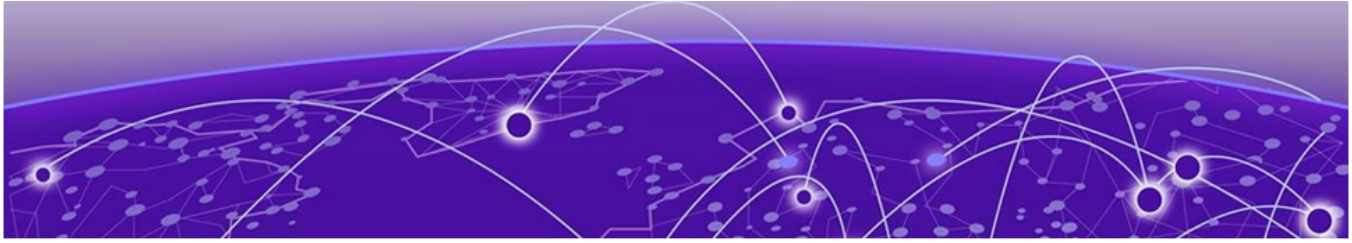
Debug-Summary

Message Text

```
%str%
```

Message Parameters

Name	Type
str	Printf



vlan.dad Messages

vlan.dad.DebugSummary on page 5027
vlan.dad.RxEvent on page 5028
vlan.dad.RxEventFail on page 5028
vlan.dad.RxEventIgn on page 5029
vlan.dad.AllocSockFail on page 5030
vlan.dad.SetSockFail on page 5030
vlan.dad.StateChg on page 5031
vlan.dad.SndSockFail on page 5032
vlan.dad.ClrCntSysReq on page 5032
vlan.dad.IPAddrTnttv on page 5033
vlan.dad.GetGrpMskFail on page 5033
vlan.dad.RecvIPv6Addr on page 5034
vlan.dad.IPv6AddrNotFnd on page 5035
vlan.dad.IPv6AddrVal on page 5035
vlan.dad.IPv6AddrDup on page 5036
vlan.dad.DebugData on page 5037
vlan.dad.DebugIPv6Intf on page 5037
vlan.dad.DebugIPv6Addr on page 5038

vlan.dad.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required. Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

vlan.dad.RxEvent

Description

DAD Instance has received a new event. The various possible events for a DAD Instance are: - IP Address Add - IP Address Valid - IP Address Duplicate

Remedy

No action required. Informational message only.

Severity

Info

Message Text

DAD Instance for `%ipa%`, interface `%intf%`, in state `%state%` received event `%event%`

Message Parameters

Name	Type
ipa	String
intf	String
state	String
event	String

vlan.dad.RxEventFail

Description

When running the DAD FSM the specified event was not handled successfully.

Remedy

Collect log output to isolate the underlying cause of error. Some possible scenarios could be failure to communicate messages correctly with clients or system. 'run [ip| ipv6] dad {{vr} <vr_name>} <ipaddress' may help resolve the issue. 'run dad' will redo the dad and thus help recover from the error

Severity

Error

Message Text

DAD Instance for `%ipa%`, interface `%intf%`, in state `%state%` failed to handle Event `%event%`

Message Parameters

Name	Type
ipa	String
intf	String
state	String
event	String

vlan.dad.RxEventIgn

Description

When running the DAD FSM the specified event was ignored per the DAD FSM specifications.

Remedy

No action required. Informational message only.

Severity

Debug-Summary

Message Text

DAD Instance for `%ipa%`, interface `%intf%`, in state `%state%` ignored event `%event%`

Message Parameters

Name	Type
ipa	String
intf	String
state	String
event	String

vlan.dad.AllocSockFail

Description

DAD module failed to open a communication channel with the system.

Remedy

When this happens DAD will not be able to function. This is a unexpected internal condition needing technical assistance. Contact technical support with the following information: Output of 'show tech', 'show ip dad', 'show ipv6 dad'

Severity

Error

Message Text

Failed to create socket error: `%errormsg%`

Message Parameters

Name	Type
errormsg	String

vlan.dad.SetSockFail

Description

DAD module failed to set a option on a communication channel which communicates with the system

Remedy

When this happens DAD will not be able to function. This is a unexpected internal condition needing technical assistance. Contact technical support with the following information: Output of 'show tech', 'show ip dad', 'show ipv6 dad'

Severity

Error

Message Text

Failed to set socket `%option%` error: `%errormsg%`

Message Parameters

Name	Type
option	String
errormsg	String

vlan.dad.StateChg

Description

The various possible states for a DAD Instance are: - Tenative - Valid - Duplicate

Remedy

No action required. Informational message only.

Severity

Info

Message Text

DAD Instance for `%ipa%`, interface `%intf%`, is now in state `%state%`

Message Parameters

Name	Type
ipa	String
intf	String
state	String

vlan.dad.SndSockFail

Description

DAD module failed to send a message on a communication channel which communicates with the system

Remedy

When this happens DAD will not be able to function as expected. This is a unexpected internal condition needing technical assistance. Contact technical support with the following information: Output of 'show tech', 'show ip dad', 'show ipv6 dad'

Severity

Error

Message Text

Failed to send message error: `%errormsg%`

Message Parameters

Name	Type
errormsg	String

vlan.dad.ClrCntSysReq

Description

A request was made to the system for specified action

Remedy

No action required. Informational message only.

Severity

Debug-Summary

Message Text

Issued Clear DAD Counters request to System: Virtual Router `%vrname%`, Address Family: `%af%`, interface `%intf%`, IP Address: `%ipa%`

Message Parameters

Name	Type
vrname	String
af	String
ipa	String
intf	String

vlan.dad.IPAddrTnttv

Description

State of the specified IP Address has become Tenative because the operational state of the interface is down.

Remedy

No action required. Informational message only.

Severity

Info

Message Text

`%ipa%` on interface `%intf%` is Tentative

Message Parameters

Name	Type
ipa	String
intf	String

vlan.dad.GetGrpMskFail

Description

In order for VLAN Manager to receive messages that indicate a duplicate IP (including IPv6) address has been discovered for a VLAN, registration for Generic Netlink group messages related to the DAD must be successful. In order to achieve this registration, the DAD family's groups must first be converted into a group mask using the Generic Netlink's control channel. This event indicates that the appropriate group mask could not be determined and registration for Generic Netlink group messages will not be

performed. As a result of this failure, VLAN Manager will not be made aware of duplicate IP addresses. This failure indicates an internal software error.

Remedy

When this happens DAD will not be able to function. This is an unexpected internal condition needing technical assistance. Contact technical support with the following information: Output of 'show tech', 'show ip dad', 'show ipv6 dad'

Severity

Error

Message Text

Failed to get group mask for Generic Netlink family. error: `%errormsg%`

Message Parameters

Name	Type
errormsg	String

vlan.dad.RecvIPv6Addr

Description

VLAN Mgr received an RtNetlink message for an IPv6 address that has been added, deleted, or changed in the Linux kernel. Related information, such as ifa_flags, are included in the message details.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Received RtNetlink `%action%` message for IPv6 Address: Address=`%address%`, Flags=`%flags%`

Message Parameters

Name	Type
action	String
address	IPv6
flags	xInt32

vlan.dad.IPv6AddrNotFnd

Description

VLAN Mgr received an RtNetlink message for a new, deleted or changed IPv6 address that is not currently associated with the specified interface. This could be due to timing where the address is deleted immediately after it was added; however, it could indicate that an address has been assigned to the kernel interface without VLAN Mgr's knowledge.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

The received IPv6 address `%address%` was not found for this interface (instance=`%inst%`, ifindex=`%idx%`)

Message Parameters

Name	Type
address	IPv6
inst	xInt32
idx	uInt32

vlan.dad.IPv6AddrVal

Description

DAD completed successfully for the specified IPv6 address

Remedy

No action required. Informational message only.

Severity

Info

Message Text

`%address%` on interface `%intf%` is Valid

Message Parameters

Name	Type
address	IPv6
intf	String

vlan.dad.IPv6AddrDup

Description

DAD failed for the specified IPv6 address. This happens because the address on the neighbor or this box was incorrectly configured. Note that if the duplicate address is the last valid link local IPv6 address, all other IPv6 addresses will be marked Tentative and IPv6 functionality will be disabled on this interface.

Remedy

Correct the IPv6 address configuration for the neighbor or this box by removing the IPv6 address using the 'unconfigure vlan <vlan_name> ipaddress' and then re-add the correct address using the 'configure vlan <vlan_name> ipaddress'.

Severity

Error

Message Text

`%address%` on interface `%intf%` is Duplicate.

Message Parameters

Name	Type
address	IPv6
intf	String

vlan.dad.DebugData

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required. Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

vlan.dad.DebugIPv6Intf

Description

A condition related to a specific interface has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required. Informational message only.

Severity

Debug-Summary

Message Text

(%intf%) %format%

Message Parameters

Name	Type
intf	String
format	Printf

vlan.dad.DebugIPv6Addr

Description

A condition related to a specific interface and IPv6 address has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required. Informational message only.

Severity

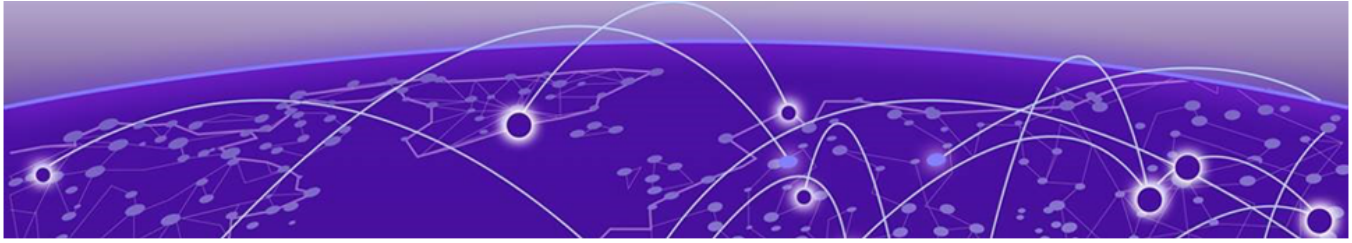
Debug-Summary

Message Text

(%intf%, %address%) %format%

Message Parameters

Name	Type
intf	String
address	IPv6
format	Printf



vlan.dbg Messages

vlan.dbg.fnExit on page 5039
vlan.dbg.fnEntry on page 5039
vlan.dbg.debugInfo on page 5040
vlan.dbg.info on page 5040
vlan.dbg.setVpifState on page 5041

vlan.dbg.fnExit

Description

Function entry

Remedy

Enter optional Remedy here

Severity

Debug-Verbose

Message Text

Function exit: `%fnName%`

Message Parameters

Name	Type
fnName	String

vlan.dbg.fnEntry

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Function Entry: `%fnName%`

Message Parameters

Name	Type
fnName	String

vlan.dbg.debugInfo

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

`%str%`

Message Parameters

Name	Type
str	Printf

vlan.dbg.info

Description

No description is available.

Remedy

No remedy is available.

Severity

Info

Message Text

```
%str%
```

Message Parameters

Name	Type
str	Printf

vlan.dbg.setVpifState

Description

Debug log indicating vlanMgr received message to program vpif states.

Remedy

No remedy is available.

Severity

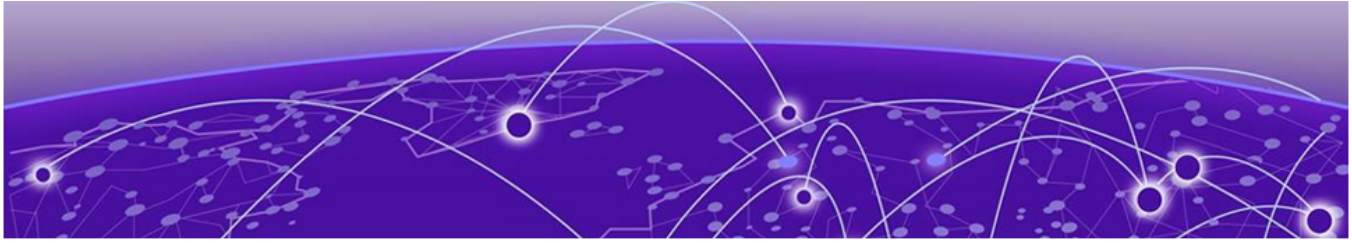
Debug-Summary

Message Text

```
%str%
```

Message Parameters

Name	Type
str	Printf



vlan.err Messages

vlan.err.memFail on page 5042
vlan.err.fileIOCTL on page 5042
vlan.err.criticalInfo on page 5043
vlan.err.dupV6Addr on page 5044

vlan.err.memFail

Description

Enter optional Description here

Remedy

Enter optional Remedy here

Severity

Critical

Message Text

Memory alloc failed: `%fnName%`s

Message Parameters

Name	Type
fnName	String

vlan.err.fileIOCTL

Description

No description is available.

Remedy

No remedy is available.

Severity

Critical

Message Text

System call `%sysCall%` failed: `%fnName%` and `%fd%`

Message Parameters

Name	Type
fnName	String
fd	uInt
sysCall	String

vlan.err.criticalInfo

Description

Enter optional Description here

Remedy

Enter optional Remedy here

Severity

Critical

Message Text

Critical Info: `%string%`s

Message Parameters

Name	Type
string	Printf

vlan.err.dupV6Addr

Description

Duplicate Address Detection has found another node using the same IPv6 address.

Remedy

Unconfigure this IPv6 address and assign a different one, or find the other network node using this address and change it.

Severity

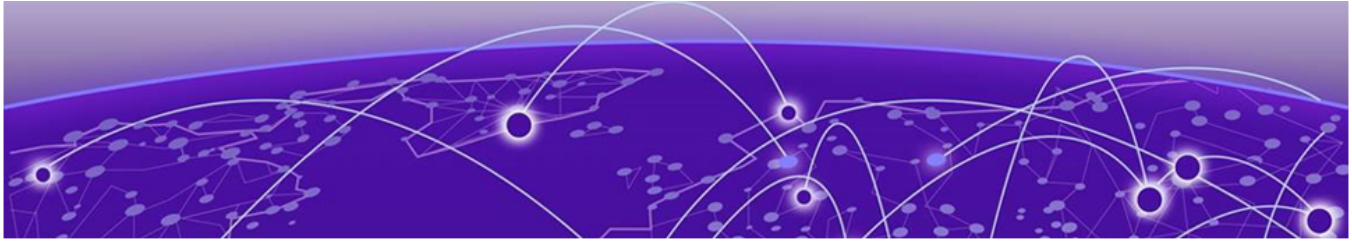
Error

Message Text

Someone else on the network is using `%addr%`

Message Parameters

Name	Type
addr	IPv6



vlan.mac Messages

vlan.mac.clientVlanRequest on page 5045
vlan.mac.noGlobalEntry on page 5046
vlan.mac.noAvailEntry on page 5046
vlan.mac.sysErr on page 5047
vlan.mac.dynMem on page 5048
vlan.mac.entryInv on page 5048
vlan.mac.refCntInv on page 5049
vlan.mac.refCntInc on page 5049
vlan.mac.refCntDec on page 5050
vlan.mac.internalError on page 5051
vlan.mac.clientPortRequest on page 5051
vlan.mac.remGlobalEntry on page 5052
vlan.mac.addGlobalEntry on page 5052
vlan.mac.existInVlan on page 5053
vlan.mac.existOnPort on page 5054
vlan.mac.serverMsgRecv on page 5054
vlan.mac.macInUseOnPort on page 5055
vlan.mac.apiMisuse on page 5055
vlan.mac.flush on page 5056
vlan.mac.gMacArrayDump on page 5057

vlan.mac.clientVlanRequest

Description

An add or delete has been request for 1 to N VLANs. Only the last VLAN in the request is displayed.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Application request: `%req%` `%mac%` for VLAN instance `%vlanInstance%`

Message Parameters

Name	Type
req	String
mac	MAC
vlanInstance	xInt32

vlan.mac.noGlobalEntry

Description

Switch has no entry for the specified MAC existing, though one was expected to exist.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Global MAC entry for `%mac%` does not exist

Message Parameters

Name	Type
mac	MAC

vlan.mac.noAvailEntry

Description

No global entries are available to insert this MAC address. No entry for this MAC address already exists.

Remedy

No remedy is available.

Severity

Warning

Message Text

No global entries exist for `%mac%`, nor are any open entries available.

Message Parameters

Name	Type
mac	MAC

vlan.mac.sysErr

Description

Underlying system behaviour that was expected to work does not. Includes port lookups, VLAN lookups, memory allocation, etc.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

vlan.mac.dynMem

Description

Some issue with dynamic memory. Fairly complex for vMAC support, can cover a lot.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

vlan.mac.entryInv

Description

A MAC entry is somehow invalid. Details should go in the message.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

vlan.mac.refCntInv

Description

Bad news, ref count bug.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%func%` Invalid ref count for `%mac%` (index of `%index%`) is `%refCnt%`!! (`%proc%`)

Message Parameters

Name	Type
func	String
refCnt	sInt
mac	MAC
index	sInt
proc	String

vlan.mac.refCntInc

Description

Bumping the reference count.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

`%func%` (`%type%`) Ref count for `%mac%` (index `%index%`) incremented to `%refCnt%`.
vpif_bit_map:`%vpifBitmap%` (`%proc%`)

Message Parameters

Name	Type
func	String
type	String
index	sInt
refCnt	sInt
mac	MAC
vpifBitmap	sInt
proc	String

vlan.mac.refCntDec

Description

Removing a reference.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

`%func%` (`%type%`) Ref count for `%mac%` (index `%index%`) deremented to `%refCnt%`
vpif_bit_map:`%vpifBitmap%`(`%proc%`)

Message Parameters

Name	Type
func	String
type	String
index	sInt
refCnt	sInt
mac	MAC
vpifBitmap	sInt
proc	String

vlan.mac.internalError

Description

Some sort of internal state inconsistency.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

vlan.mac.clientPortRequest

Description

An add or delete has been request for a port.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Application request: `%req%` `%mac%` for port instance `%portInstance%`

Message Parameters

Name	Type
req	String
mac	MAC
portInstance	xInt32

vlan.mac.remGlobalEntry

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Removing global entry for `%mac%` (`%proc%`)

Message Parameters

Name	Type
mac	MAC
proc	String

vlan.mac.addGlobalEntry

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Adding global entry for `%mac%` (`%proc%`))

Message Parameters

Name	Type
mac	MAC
proc	String

vlan.mac.existInVlan

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

`%mac%` already marked as in use (index = `%globalIndex%`) on VLAN `%vlanName%`

Message Parameters

Name	Type
mac	MAC
globalIndex	sInt
vlanName	String

vlan.mac.existOnPort

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

`%mac%` already marked as in use (index = `%globalIndex%`) on port instance `%portInstance%`

Message Parameters

Name	Type
mac	MAC
globalIndex	sInt
portInstance	xInt32

vlan.mac.serverMsgRecv

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Received message of type `%msgType%` from protocol ID `%protoId%`

Message Parameters

Name	Type
protoId	uInt32
msgType	uInt16

vlan.mac.macInUseOnPort

Description

No description is available.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

VLAN `%vlanName%` still uses the MAC `%mac%` port `%port%`

Message Parameters

Name	Type
mac	MAC
vlanName	String
port	Printf

vlan.mac.apiMisuse

Description

This indicates that a protocol has called the virtual MAC API incorrectly.

Remedy

This error case is handled correctly, and the switch should behave correctly. However, this really should be fixed prior to ship.

Severity

Debug-Summary

Message Text

`%message%`

Message Parameters

Name	Type
message	Printf

vlan.mac.flush

Description

Entry of processing a flush request.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

Processing a flush request of MAC addresses `%mac%` masked by `%macMask%` that were installed by `%origin%` on VR Id `%vrId%`

Message Parameters

Name	Type
mac	MAC
macMask	MAC
origin	String
vrId	uInt32

vlan.mac.gMacArrayDump

Description

Dumping of global macArray

Remedy

No remedy is available.

Severity

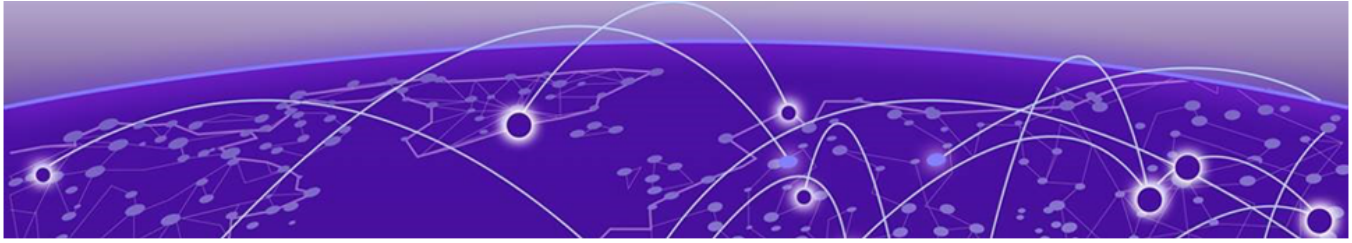
Info

Message Text

(%proc%) %format%

Message Parameters

Name	Type
proc	String
format	Printf



vlan.Mirror Messages

vlan.Mirror.RmtIPRtAvail on page 5058
vlan.Mirror.RmtIPRtUnavail on page 5059
vlan.Mirror.RmtIPUp on page 5060
vlan.Mirror.RmtIPDown on page 5060
vlan.Mirror.RmtIPPingChkFail on page 5061
vlan.Mirror.RmtIPRtMgrRegFail on page 5062
vlan.Mirror.RmtIPRtMgrUnregFail on page 5063
vlan.Mirror.DebugSummary on page 5064
vlan.Mirror.DebugVerbose on page 5065
vlan.Mirror.DebugData on page 5065
vlan.Mirror.SlctRmtIPOK on page 5066
vlan.Mirror.SlctRmtIPFail on page 5067
vlan.Mirror.SlctRmtGwChg on page 5067

vlan.Mirror.RmtIPRtAvail

Description

This event occurs when an IP route is available to reach the specified remote IP. If ping-check is configured "on", ping-check is started.

Remedy

No action required - Notification of a network change only.

Severity

Notice

Message Text

`%mirName%`: Route is available to remote IP `%IPaddr%`, `%vrName%`, priority `%prio%`

Message Parameters

Name	Type
vrName	VR
IPaddr	IPv4N
prio	uInt8
mirName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.RmtIPRtUnavail

Description

This event occurs when no IP route is available to reach the specified remote IP. Ping-check will not run.

Remedy

This is a notification of a network change. No action is required, but if a route to the remote IP is expected to be present, show the state of routing protocols in use, or issue "show iproute" to examine the route table.

Severity

Notice

Message Text

`%mirName%`: Route is unavailable to remote IP `%IPaddr%`, `%vrName%`, priority `%prio%`

Message Parameters

Name	Type
vrName	VR
IPaddr	IPv4N
prio	uInt8
mirName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.RmtIPUp

Description

The operational state of the mirror-to-remote IP has changed to "Up", because ping-check detected the remote IP replied with an ICMP Echo Reply.

Remedy

No action required - Notification of a network change only.

Severity

Notice

Message Text

`%mirName%`: Ping check is successful to remote IP `%IPaddr%`, `%vrName%`, priority `%prio%`

Message Parameters

Name	Type
vrName	VR
IPaddr	IPv4N
prio	uInt8
mirName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.RmtIPDown

Description

The operational state of the mirror-to-remote-IP is "Ping timed out" because ping-check detected the given remote IP address failed to reply to 3 consecutive ICMP Requests.

Remedy

No action required - Notification of a network change only. Check the connectivity along the path to the remote IP.

Severity

Notice

Message Text

`%mirName%`: Ping check timed out to remote IP `%IPaddr%`, `%vrName%`, priority `%prio%`

Message Parameters

Name	Type
vrName	VR
IPaddr	IPv4N
prio	uInt8
mirName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.RmtIPPingChkFail

Description

This event occurs when ICMP Ping Protection could not start to the given remote IP address for the given reason. The mirror-to-remote IP operational status is "Up".

Remedy

This is a notification of an internal error or limit reached in the nettools software component, and should be rare. Collect the following information: show mirror debug vlan show mirror debug nettools show ping

Severity

Warning

Message Text

`%mirName%`: Ping check failed to start to remote IP `%IPaddr%`, `%vrName%`, priority `%prio%`. Reason: `%reason%`. Remote IP assumed to be up.

Message Parameters

Name	Type
vrName	VR
IPaddr	IPv4N
reason	String
prio	uInt8
mirName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.RmtIPRtMgrRegFail

Description

This event occurs when Route Manager could not register route tracking to the given remote IP address for the given reason code. The mirror-to-remote IP operational status is "No route".

Remedy

This is a notification of an internal error in the route manager software component, and should be rare. Collect the following information: show iproute summary show virtual-router Then for each user-created VR, collect: show iproute summary <user_vr_name>

Severity

Warning

Message Text

`%mirName%`: Route Manager failed to register route tracking to remote IP `%IPaddr%`, `%vrName%`, priority `%prio%` (rc=`%rc%`)

Message Parameters

Name	Type
vrName	VR
IPaddr	IPv4N
rc	uInt8
prio	uInt8
mirName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.RmtIPRtMgrUnregFail

Description

This event occurs when Route Manager could not unregister route tracking to the given remote IP address for the given reason code.

Remedy

This is a notification of an internal error in the route manager software component, and should be rare. Collect the following information: show iproute summary show virtual-router Then for each user-created VR, collect: show iproute summary <user_vr_name>

Severity

Warning

Message Text

`%mirName%`: Route Manager failed to unregister route tracking to remote IP `%IPaddr%`, `%vrName%`, priority `%prio%` (rc=`%rc%`)

Message Parameters

Name	Type
vrName	VR
IPaddr	IPv4N
rc	uInt8

Name	Type
prio	uInt8
mirName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.SlctRmtIPOK

Description

The mirror-to-remote IP instance has selected an active remote IP for mirroring. This remote IP is the highest priority in "Up" status.

Remedy

No action required - Notification of a network change only.

Severity

Notice

Message Text

`%mirName%`: Started mirroring to selected remote IP `%IPaddr%`, `%vrName%`, priority `%prio%`

Message Parameters

Name	Type
vrName	VR
IPaddr	IPv4N
prio	uInt8
mirName	String

Applicable Platforms

- Summit family switches

- I386 virtual machine switch simulator

vlan.Mirror.SlctRmtIPFail

Description

The mirror-to-remote IP instance has failed to find any remote IP in "Up" status. Mirroring for this instance will not take place. Up to 4 redundant remote IP addresses can be configured per mirror instance.

Remedy

Up to 4 redundant remote IP addresses can be configured per mirror instance. This message indicates none of those remote IP's are in "Up" status. See "show mirroring" status for further information on why each remote IP is Down. This may indicate a network change has occurred.

Severity

Notice

Message Text

`%mirName%`: Not mirroring to remote IP. None of the configured remote IP addresses are in Up status.

Message Parameters

Name	Type
mirName	String

Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

vlan.Mirror.SlctRmtGwChg

Description

The mirror-to-remote IP instance has updated the gateway to reach the selected remote IP for mirroring. This remote IP was already in use, only the gateway has changed.

Remedy

No action required - Notification of a gateway change only.

Severity

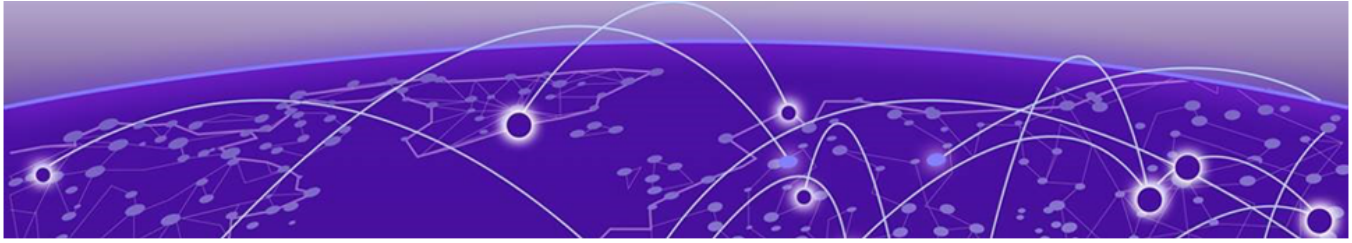
Info

Message Text

`%mirName%`: Updated gateway to `%gwAddr%` for selected remote IP `%IPaddr%`, `%vrName%`, priority `%prio%`

Message Parameters

Name	Type
vrName	VR
IPaddr	IPv4N
prio	uInt8
mirName	String
gwAddr	IPv4N



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vlan.msgs.msgTx

Description

Enter optional Description here

Remedy

Enter optional Remedy here

Severity

Debug-Data

Message Text

Message Name: Command: `%cmd%` and status: `%status%`

Message Parameters

Name	Type
cmd	uInt
status	uInt

vlan.msgs.msgRx

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Message received: Cmd: `%cmd%` and status: `%status%`

Message Parameters

Name	Type
cmd	uInt
status	uInt

vlan.msgs.createVlan

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Sending Create Vlan Msg: Name: `%name%`, tag Status: `%tag%`, instance: `%instance%`, vlanId: `%vlanId%`, index = `%index%` ...

Message Parameters

Name	Type
vlanId	uInt
name	String
instance	uInt
tag	uInt
index	uInt

vlan.msgs.removeVlan

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Sending Remove Vlan Msg: Name: `%name%`.

Message Parameters

Name	Type
name	String

vlan.msgs.renameVlan

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Renaming a Vlan Msg: Old Name: `%oldName%`, New Name: `%newName%`.

Message Parameters

Name	Type
oldName	String
newName	String

vlan.msgs.getNoPorts

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Get no of ports from Kernel: `%noPorts%`.

Message Parameters

Name	Type
noPorts	uInt

vlan.msgs.addPortsVlan

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: vlan Name: `%name%`, noPorts: `%noPorts%`, starting port: `%startPort%`, end port: `%endPort%`, ifIndex: `%index%`

Message Parameters

Name	Type
name	String
noPorts	uInt
startPort	uInt
endPort	uInt
index	uInt

vlan.msgs.remPortsVlan

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Removing ports from a vlan: `%name%`, noPorts: `%noPorts%` .

Message Parameters

Name	Type
name	String
noPorts	uInt

vlan.msgs.cfgVlanTag

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Tag to a vlan : vlan Name: `%name%`, tag : `%tag%`

Message Parameters

Name	Type
name	String
tag	uInt

vlan.msgs.vrRemove

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Deleting a VR: vr Name: `%name%`, vrId: `%vrId%`.

Message Parameters

Name	Type
name	String
vrId	uInt

vlan.msgs.createVr

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Creating a VR: vr Name: `%name%`, vrId: `%vrId%`.

Message Parameters

Name	Type
name	String
vrId	uInt

vlan.msgs.cfgVrVlan

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Attach a vlan to a vr: vr Name: `%vrName%`, vlan name: `%vlanName%`.

Message Parameters

Name	Type
vrName	String
vlanName	String

vlan.msgs.cfgVrIpStatus

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Cfg ip forwarding status for a VR: vr Name: `%name%`, status: `%status%`.

Message Parameters

Name	Type
name	String
status	uInt

vlan.msgs.cfgIpStatusAll

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Cfg ip forwarding status for the system: status: `%status%`.

Message Parameters

Name	Type
status	uInt

vlan.msgs.rxMsg

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Rx Msg: name: `%name%`.

Message Parameters

Name	Type
name	String

vlan.msgs.cfgIPVlan

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Cfg ip forwarding status on vlan: vlan name: `%name%`, status: `%status%`.

Message Parameters

Name	Type
name	String
status	uInt

vlan.msgs.cfgEnbLs

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Creating a Load sharing group with `%masterPort%` and other ports `%noPorts%` and algo `%algo%`.

Message Parameters

Name	Type
masterPort	uInt
noPorts	uInt
algo	uInt

vlan.msgs.cfgDisLs

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Removing a Load sharing group with `%masterPort%` .

Message Parameters

Name	Type
masterPort	uInt

vlan.msgs.cfgLoopback

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Enabling a loopback on vlan: vlan name: `%name%`, loopback status: `%status%`.

Message Parameters

Name	Type
name	String
status	uInt

vlan.msgs.cfgVlanProto

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Cfg vlan Protocol info: vlan name: `%name%`.

Message Parameters

Name	Type
name	String

vlan.msgs.cfgPortState

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Cfg Port state: port no: `%port%`, state = `%state%`.

Message Parameters

Name	Type
port	uInt
state	uInt

vlan.msgs.cfgVlanState

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Cfg VLAN state: vlan name: `%name%`, state = `%state%`.

Message Parameters

Name	Type
name	String
state	uInt

vlan.msgs.addIpVlan

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Add IP addr to a vlan : vlan Name: `%name%`, ip addr: `%ipAddr%`, mask: `%mask%`

Message Parameters

Name	Type
name	String
ipAddr	IPN
mask	IPN

vlan.msgs.getStpInfo

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Get STP info for vlan: vlan Name: `%name%`

Message Parameters

Name	Type
name	String

vlan.msgs.portLinkState

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Tx Msg: Sending link state of a port: slot: `%slot%`, port: `%port%`, state: `%state%`

Message Parameters

Name	Type
slot	uInt
port	uInt
state	uInt

vlan.msgs.portLinkStateUp

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Port `%port%` link UP at speed `%speed%` and `%duplex%`

Message Parameters

Name	Type
port	String
speed	String
duplex	String
slotPort	SlotPort

vlan.msgs.portLinkStateDown

Description

No description is available.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Port `%port%` link `%downWithReason%`

Message Parameters

Name	Type
port	String
downWithReason	String
slotPort	SlotPort

vlan.msgs.clientNoAck

Description

No description is available.

Remedy

No remedy is available.

Severity

Critical

Message Text

`%str%` Vlan Mgr: Client `%name%` with peerId: `%peer%` has not acked back for msg `%msg%`

Message Parameters

Name	Type
str	String
name	String
peer	uInt
msg	uInt

vlan.msgs.RstrctTrnscvr

Description

A port has been enabled, and it is attached to an unsupported and unlicensed high speed transceiver. The transceiver is restricted to 25 percent of capacity.

Remedy

Use a supported transceiver instead. Otherwise, contact technical support to purchase and install a '3rd Party Optics' feature license. Issue the CLI command 'show port x transceiver information detail' to see the transceiver type, vendor, part number, etc.

Severity

Warning

Message Text

The transceiver attached to port `%slo_po%` is unsupported and unlicensed. The port is restricted to `%restrict_val%`.

Message Parameters

Name	Type
slo_po	SlotPort
restrict_val	String

vlan.msgs.FldRateOutActLogEvent

Description

This event occurs because the log action is configured for Port Flood Rate and the ingress traffic rate has exceeded the rate limit. The log action is one of the configurable out actions to be taken when the rate limit is exceeded with the "configure ports [<port_list>|<port_group>] rate-limit flood...out-actions" command

Remedy

The out-of-profile status may be cleared using the "clear ports rate-limit flood out-of-profile" command. A review of the Port Flood Rate-Limit configuration may be warranted.

Severity

Info

Message Text

Ingress traffic on port `%portString%` exceeded a Flood Control Limit resulting in change of out-of-profile status to true.

Message Parameters

Name	Type
portString	SlotPort

vlan.msgs.FldRateOutActDsblPort

Description

This event occurs because the disable-port action is configured for Port Flood Rate and the ingress traffic rate has exceeded the rate limit. The disable-port is one of the configurable out actions to be taken when the rate limit is exceeded with the "configure ports [<port_list>|<port_group>] rate-limit flood...out-actions" command

Remedy

The out-of-profile status may be cleared using the "clear ports rate-limit flood out-of-profile" command. A review of the Port Flood Rate-Limit configuration may be warranted.

Severity

Info

Message Text

Port `%portString%` disabled by Flood Control Rate Limit because the traffic exceeded the configured rate.

Message Parameters

Name	Type
portString	SlotPort

vlan.msgs.PortLinkFlapActLogEvent

Description

This message is displayed if a user has enabled link-flap detection on a port and has set the action to log a message on exceeding the configured threshold value for link flaps. The operational status indicates whether the port has been disabled for excessive link flapping or not.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Port `%slotPort%` link-flap detection operational status is `%lfOperStatus%`. Link has flapped more than `%linkFlapCount%` times in `%interval%` seconds.

Message Parameters

Name	Type
slotPort	SlotPort
lfOperStatus	String
linkFlapCount	uInt32
interval	uInt32

vlan.msgs.PortLinkFlapActDsblPort

Description

This message is displayed if a user has enabled link-flap detection on a port and has set the action to disable the port on exceeding the configured threshold value for link flaps. The severity is set to debug-summary to avoid duplicate messages from being printed, if the link-flap detection log action is also enabled for this port.

Remedy

No action required - Notification message only.

Severity

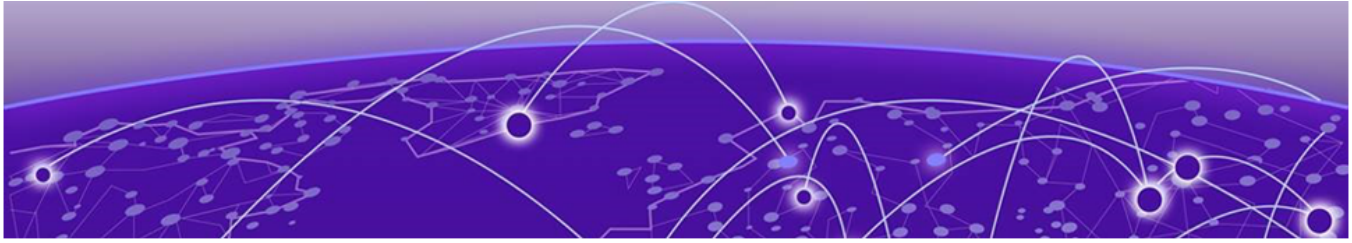
Debug-Summary

Message Text

Port `%slotPort%` is disabled for excessive link flapping. Link has flapped more than `%linkFlapCount%` times in `%interval%` seconds.

Message Parameters

Name	Type
slotPort	SlotPort
linkFlapCount	uInt32
interval	uInt32



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VMT.InitDone

Description

Virtual machine tracking framework was initialized.

Remedy

No action required - Information message only.

Severity

Info

Message Text

Virtual machine tracking framework has been initialized.

VMT.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect operation of the VMT feature.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Critical

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure of size `%size%`.

Message Parameters

Name	Type
obj	String
size	uInt32

VMT.FDBEventDump

Description

FDB event description. Events
are: 0 FDB_CLIENT_CALLBACK_MAC_TRACKING_ADD_EVENT
1 FDB_CLIENT_CALLBACK_MAC_TRACKING_DEL_EVENT 2
FDB_CLIENT_CALLBACK_MAC_TRACKING_MOVE_EVENT

Remedy

No action required - Information message only.

Severity

Debug-Data

Message Text

Event `%event%`: vlanInstance `%vlanInstance%`, portInstance `%portInstance%`, tag `%vlanTag%`, mac `%mac%`.

Message Parameters

Name	Type
event	sInt
vlanInstance	uInt
portInstance	xInt32
vlanTag	VLAN-tag
mac	MAC

VMT.DtectMAC

Description

Virtual machine MAC was detected and reported to virtual machine tracking framework.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Virtual machine MAC `%mac%` detected on port `%port%` on VLAN instance `%vlanIfInstance%`.

Message Parameters

Name	Type
mac	MAC
port	SlotPort
vlanIfInstance	uInt32

VMT.DelMAC

Description

Virtual machine MAC was deleted and was reported to the virtual machine tracking framework. VLAN instance of -1 means that the virtual machine mac was deleted on all VLANs on which it has been detected.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Virtual machine MAC `%mac%` deleted on port `%port%` on VLAN instance `%vlanIfInstance%`.

Message Parameters

Name	Type
mac	MAC
port	SlotPort
vlanIfInstance	uInt32

VMT.MoveMAC

Description

Virtual machine MAC moved between ports and was reported to the virtual machine tracking framework.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Virtual machine MAC `%mac%` moved from port `%srcPort%` to port `%dstPort%`.

Message Parameters

Name	Type
mac	MAC
srcPort	SlotPort
dstPort	SlotPort

VMT.AuthMAC

Description

This message logs information about virtual machine MAC authentication and virtual port profile execution.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Virtual machine MAC `%mac%` port `%port%` user `%user%` is authenticated and virtual port profile `%profile%` is applied.

Message Parameters

Name	Type
mac	MAC
port	SlotPort

Name	Type
user	String
profile	String

VMT.UnAuthMAC

Description

This message logs information about virtual machine MAC unauthentication.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Virtual machine MAC `%mac%` port `%port%` user `%user%` is unauthenticated and virtual port profile `%profile%` is unapplied.

Message Parameters

Name	Type
mac	MAC
port	SlotPort
user	String
profile	String

VMT.StrtInitCkpt

Description

Check-pointing to the backup instance has started.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Initial check pointing started for virtual machine tracking.

VMT.DoneInitCkpt

Description

Check-pointing to the backup instance has finished.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Initial check pointing finished for virtual machine tracking.

VMT.SendCkpt

Description

Virtual machine MAC information sent to backup node.

Remedy

No action required - Information message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VMT.RecvCkpt

Description

Virtual machine MAC information received by backup node.

Remedy

No action required - Information message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VMT.AuthMACRadius

Description

Radius authentication initiated for virtual machine MAC.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Radius authentication initiated for Virtual Machine MAC `%mac%`.

Message Parameters

Name	Type
mac	MAC

VMT.AuthMACMap

Description

VMMAP file based authentication initiated for virtual machine MAC.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

VMMAP file based authentication initiated for virtual machine MAC `%mac%`.

Message Parameters

Name	Type
mac	MAC

VMT.AuthMACLoc

Description

Local authentication initiated for virtual machine MAC.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Local authentication initiated for virtual machine MAC `%mac%`.

Message Parameters

Name	Type
mac	MAC

VMT.AuthMACAAA

Description

An authentication request to the AAA manager.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

AAA request has been initiated for virtual machine MAC `%mac%` user `%user%`.

Message Parameters

Name	Type
mac	MAC
user	String

VMT.AuthMACAAARspns

Description

AAA request result. A result of one equals authentication successful other value authentication failure.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

AAA request for virtual machine MAC `%mac%`, port `%port%`, user `%user%`, AAA result `%result%`, authError `%error%`.

Message Parameters

Name	Type
mac	MAC
port	SlotPort
user	String
result	uInt8
error	String

VMT.AuthMACFail

Description

Virtual machine MAC fail authentication.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Authentication failed for virtual machine MAC `%mac%`, port `%port%`, by `%auth%` authentication.

Message Parameters

Name	Type
mac	MAC
port	SlotPort
auth	String

VMT.RecvACLClbk

Description

Call back received from ACL manager.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

vmtAclCallback() returned for `%rcString%` `%rc%` for command `%cmd%`, client `%client%`.

Message Parameters

Name	Type
cmd	xInt
rc	sInt
rcString	String
client	Ptr

VMT.BindPlcy

Description

PolicyName binded with ACL module for the specified direction.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Policy name `%policyName%` is binded in `%dir%` direction.

Message Parameters

Name	Type
policyName	String
dir	String

VMT.UnBindPlcy

Description

PolicyName unbinded with ACL module for the specified direction.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Policy name `%policyName%` is unbinded in `%dir%` direction.

Message Parameters

Name	Type
policyName	String
dir	String

VMT.ApplyPlcy

Description

PolicyName applied for virtual machine MAC.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Policy name `%policyName%` is applied for client MAC `%mac%` in `%dir%` direction.

Message Parameters

Name	Type
policyName	String
mac	MAC
dir	String

VMT.UnApplyPlcy

Description

PolicyName is unapplied for virtual machine MAC.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Policy name `%policyName%` is unapplied for client MAC `%mac%` in `%dir%` direction.

Message Parameters

Name	Type
policyName	String
mac	MAC
dir	String

VMT.RegFDBMACTrack

Description

This message gets logged when virtual machine tracking registers for FDB MAC tracking events on a set of ports.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Virtual machine tracking registered for FDB MAC tracking events.

VMT.DeRegFDBMACTrack

Description

This message gets logged when virtual machine tracking deregisters for FDB MAC tracking events on a set of ports.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Virtual machine tracking deregistered for FDB MAC tracking events.

VMT.ParmNull

Description

An internal function was called with a null pointer. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide information to technical support team on VMT configuration. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Function `%func%` was called with a null pointer `%arg%`.

Message Parameters

Name	Type
func	String
arg	String

VMT.FndMACMapFail

Description

The client is not found in the VMMAP file downloaded to switch during VMMAP file based authentication.

Remedy

Provide information to technical support team on VMT configuration and check whether the VMMAP file was downloaded successfully and the VMMAP file has this MAC entry.

Severity

Error

Message Text

VM client MAC `%mac%` not found in VMMAP file.

Message Parameters

Name	Type
mac	MAC

VMT.FndMACLocDBFail

Description

The client is not found local VM database during local authentication.

Remedy

Provide information to technical support team on VMT configuration and check whether the local VM database entries are created for this MAC entry.

Severity

Error

Message Text

VM client MAC `%mac%` not found in local VM database.

Message Parameters

Name	Type
mac	MAC

VMT.OpenFileFail

Description

Unable to open the specific file.

Remedy

Check whether the file is present.

Severity

Error

Message Text

Unable to open file `%filename%`.

Message Parameters

Name	Type
filename	String

VMT.ReadFileFail

Description

Unable to read the specific file contents.

Remedy

Check whether the file format is as per specification.

Severity

Warning

Message Text

Unable to read the file `%filename%` contents `%line%`.

Message Parameters

Name	Type
filename	String
line	String

VMT.AddMACMapDBFail

Description

Addition of the specified VM client MAC to the VMMAP file database failed. Return Values 6- Entry already present, 3- Memory Allocation Failure.

Remedy

Provide information to technical support team on VMT configuration.

Severity

Warning

Message Text

Adding VM client MAC `%mac%` to VMMAP file database failed due to `%ret%`.

Message Parameters

Name	Type
mac	MAC
ret	uInt32

VMT.AddNameVPPDBFail

Description

Addition of the specified VPP name to the VPP database failed. Return Values 8- Entry already present, 3- Memory Allocation Failure.

Remedy

Provide information to technical support team on VMT configuration.

Severity

Warning

Message Text

Adding VPP Name `%name%` to VPP database failed due to `%ret%`.

Message Parameters

Name	Type
name	String
ret	uInt32

VMT.DelNameVPPDBFail

Description

VPP Name was not present in VPP database and could not be deleted.

Remedy

Provide information to technical support team on VMT configuration.

Severity

Warning

Message Text

VPP name `%name%` delete failed.

Message Parameters

Name	Type
name	String

VMT.ParseFileFail

Description

Error while parsing the file.

Remedy

Check whether the file format is as per specification.

Severity

Error

Message Text

File parsing failed `%string%`.

Message Parameters

Name	Type
string	Printf

VMT.ParmInv

Description

An internal function was called with an invalid value. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide information to technical support team on VMT configuration.

Severity

Warning

Message Text

Function `%func%` Arg `%arg%` has an invalid value `%val%`.

Message Parameters

Name	Type
func	String
arg	String
val	uInt32

VMT.FileNameLenLong

Description

File name length is longer than the maximum file name size that can be downloaded to the switch.

Remedy

Use a filename that is less than or equal to 32 characters.

Severity

Warning

Message Text

File name `%filename%` length `%length%` is more than 32 characters.

Message Parameters

Name	Type
filename	String
length	uInt32

VMT.PlcyNameLenLong

Description

The policy name in the file is too long.

Remedy

Use a policy name in the file that is less than or equal to 28 characters.

Severity

Warning

Message Text

Policy name `%plcyName%` in the file `%fileName%` has length `%len%`, which exceeds the 28-character limit.

Message Parameters

Name	Type
plcyName	String
len	uInt32
fileName	String

VMT.VMNameLenLong

Description

The specified VM name in the file is too long.

Remedy

Use a VM name in the file that is less than or equal to 32 characters.

Severity

Warning

Message Text

The VM name `%vmName%` in the file `%fileName%` has length `%len%`, which exceeds the 32-character limit.

Message Parameters

Name	Type
vmName	String
len	uInt32
fileName	String

VMT.ClientMaxExcd

Description

Virtual machine MAC exceeds the 2k limit for the maximum number of clients.

Remedy

Provide information to the technical support team on the VMT configuration.

Severity

Warning

Message Text

Virtual machine MAC `%mac%` detected on port `%port%` exceeds the maximum-number-of-clients limit.

Message Parameters

Name	Type
mac	MAC
port	SlotPort

VMT.VMMaxExcd

Description

Virtual machine MAC exceeds the 16k limit for the maximum number of VMs.

Remedy

Provide information to the technical support team on the VMT configuration.

Severity

Warning

Message Text

Adding VM client MAC `%mac%` addition to the VM database failed as it exceeds the limit for the number of VMs supported.

Message Parameters

Name	Type
mac	MAC

VMT.VPPMaxExcd

Description

The VPP database supports up to 2K entries and it is full. The VPP database cannot accept additional VPP names.

Remedy

Provide information to the technical support team on the VMT configuration.

Severity

Warning

Message Text

VPP Name `%name%` addition to the VPP database failed because the database already contains the maximum number of names.

Message Parameters

Name	Type
name	String

VMT.DtectDupMAC

Description

A duplicate virtual machine MAC was received on the specified port. The duplicate MAC addresses are on different VLANs.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Duplicate virtual machine MAC `%mac%` detected on port `%port%`.

Message Parameters

Name	Type
mac	MAC
port	SlotPort

VMT.FTPSyncTrace

Description

This message is used for debugging problems related to FTP Sync. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems related to FTP sync.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VMT.VPPNameLenLong

Description

The specified VPP name in the file is too long.

Remedy

Use a VPP name in the file that is less than or equal to 32 characters.

Severity

Warning

Message Text

The VPP name `%vppName%` in the file `%fileName%` has length `%len%`, which exceeds the 32-character limit.

Message Parameters

Name	Type
vppName	String
len	uInt
fileName	String

VMT.AuthDtectMACFail

Description

Virtual machine MAC was detected and it's authentication is failed because either NMS/VMMAP/LOCAL auth methods does not have authentication information about this MAC.

Remedy

If this Virtual machine MAC needs to be authenticated then the database should be populated for either of NMS/VMMAP/LOCAL, if not the MAC can be left in unauthenticated state and no VPP will be applied. Create NMS mapping for this detected Virtual machine MAC refer to concepts guide section "Configuring NMS Server Authentication". Create VMMAP mapping for this detected Virtual machine MAC and sync VMMAP repository refer to concepts guide section "Configuring VMMAP File Authentication". Create Local Mapping for this detected Virtual machine MAC refer to concepts guide section "Configuring Local Database Authentication". Do nothing.

Severity

Warning

Message Text

Authentication of virtual machine MAC `%mac%` detected on port `%port%` is failed.

Message Parameters

Name	Type
mac	MAC
port	SlotPort

VMT.DelMACNotAuth

Description

Virtual machine MAC is detected and its authentication is failed is informed via "AuthDtectMACFail" message and now that virtual machine MAC is getting deleted from switch.

Remedy

If the database was populated for either NMS/VMMAP/LOCAL for this virtual machine MAC with respect to "AuthDtectMACFail" message then database needs to be un-populated for this message. Remove NMS mapping for this deleted Virtual machine MAC. Remove VMMAP mapping for this deleted Virtual machine MAC and sync VMMAP repository. Remove Local Mapping for this deleted Virtual machine MAC. Do nothing.

Severity

Warning

Message Text

Virtual machine MAC `%mac%` for which authentication is failed is now deleted on port `%port%`.

Message Parameters

Name	Type
mac	MAC
port	SlotPort

VMT.BndPlcyFail

Description

Policy bind failed because the policy file has syntax errors, SMAC qualifier on ingress direction, or DMAC qualifier on egress direction.

Remedy

Check the policy for errors. If the policy needs to bind on ingress direction, then policy should not have an SMAC qualifier. Similarly, if the policy needs to bind on egress direction, then policy should not have a DMAC qualifier.

Severity

Error

Message Text

Policy name `%plcyName%` bind failed for `%dir%` direction.

Message Parameters

Name	Type
plcyName	String
dir	String

VMT.InstlDynCntOK

Description

Dynamic ACL counter has been installed to count packet source/destination MAC address matches VM MAC. If direction is ingress then Dynamic ACL counter has been installed to count packet source MAC address matches VM MAC. If direction is egress then Dynamic ACL counter has been installed to count packet destination MAC address matches VM MAC. If direction is both then Dynamic ACL counter has been installed to count packet source and destination MAC address matches VM MAC.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Dynamic ACL counter `%counterName%` has been installed for VM MAC `%mac%` on `%direction%` direction.

Message Parameters

Name	Type
counterName	String
mac	MAC
direction	String

VMT.UnInstlDynCntOK

Description

If direction is ingress then Dynamic ACL counter which is already installed to count packet source MAC address matches VM MAC is now being uninstalled. If direction is egress then Dynamic ACL counter which is already installed to count packet destination MAC address matches VM MAC is now being uninstalled. If direction is both then Dynamic ACL counter which is already installed to count packet source and destination MAC address matches VM MAC is now being uninstalled.

Remedy

No action required - Information message only.

Severity

Debug-Summary

Message Text

Dynamic ACL counter `%counterName%` has been uninstalled for VM MAC `%mac%` on `%direction%` direction.

Message Parameters

Name	Type
counterName	String
mac	MAC
direction	String

VMT.VMVRNameNotFnd

Description

Specified VR Name does not exist.

Remedy

Create the specified VR Name and then try this configuration.

Severity

Warning

Message Text

Dynamic VLAN with VLAN Tag `%vlanTag%` cannot be created for VM MAC `%mac%` because VR Name `%vrName%` does not exist.

Message Parameters

Name	Type
vrName	String
vlanTag	uInt32
mac	MAC

VMT.VMVRNameInv

Description

VR Name cannot be system VR.

Remedy

Specify VR other than system VR.

Severity

Warning

Message Text

Dynamic VLAN with VLAN Tag `%vlanTag%` for VM MAC `%mac%` cannot be created on system VR.

Message Parameters

Name	Type
vlanTag	uInt32
mac	MAC

VMT.VPPVRNameNotFnd

Description

Specified VR Name does not exist.

Remedy

Create the specified VR Name and then try this configuration.

Severity

Warning

Message Text

Dynamic VLAN with VLAN Tag `%vlanTag%` cannot be created for VPP name `%vppName%` because VR Name `%vrName%` does not exist.

Message Parameters

Name	Type
vrName	String
vlanTag	uInt32
vppName	String

VMT.VPPVRNameInv

Description

VR Name cannot be system VR.

Remedy

Specify VR other than system VR.

Severity

Warning

Message Text

Dynamic VLAN with VLAN Tag `%vlanTag%` for VPP name `%vppName%` cannot be created on system VR.

Message Parameters

Name	Type
vlanTag	uInt32
vppName	String

VMT.VMVLANTagInv

Description

VLAN Tag should be in between 1 and 4094.

Remedy

Specify VLAN Tag as per range mentioned.

Severity

Warning

Message Text

Dynamic VLAN Tag `%vlanTag%` for VM MAC `%mac%` has invalid range.

Message Parameters

Name	Type
mac	MAC
vlanTag	uInt32

VMT.VPPVLANTagInv

Description

VLAN Tag should be in between 1 and 4094.

Remedy

Specify VLAN Tag as per range mentioned.

Severity

Warning

Message Text

Dynamic VLAN Tag `%vlanTag%` for VPP name `%vppName%` has invalid range.

Message Parameters

Name	Type
vppName	String
vlanTag	uInt32

VMT.BndDynVLANTrace

Description

This message for debugging problems related to binding VMs to Dynamic VLANs . This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems related to Dynamic VLAN bind.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VMT.UnbndDynVLANTrace

Description

This message for debugging problems related to unbinding VMs from Dynamic VLANs. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems related to Dynamic VLAN unbind.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VMT.EnblDynVLANTrace

Description

This message is used for debugging problems related to Dynamic VLAN Enable. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems related to Dynamic VLAN enable.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VMT.DsblDynVLANTrace

Description

This message is used for debugging problems related to Dynamic VLAN disable. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems related to Dynamic VLAN disable.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VMT.AssocVMDynVLAN

Description

The virtual machine has been dynamically associated with the VLAN and VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Virtual Machine with `%mac%` on port `%slotPort%` is dynamically associated to VLAN with tag `%vlanTag%` on VR `%vrName%` as `%tagged%`.

Message Parameters

Name	Type
mac	MAC
slotPort	SlotPort
vlanTag	VLAN-tag
vrName	String
tagged	String

VMT.DissocVMDynVLAN

Description

The virtual machine has been dissociated from the VLAN and VR.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Virtual Machine with `%mac%` on port `%slotPort%` is now dissociated from VLAN with tag `%vlanTag%` on VR `%vrName%` as `%tagged%`.

Message Parameters

Name	Type
mac	MAC
slotPort	SlotPort
vlanTag	VLAN-tag
vrName	String
tagged	String

VMT.VMVLANTagMsmtch

Description

The VLAN tag of the traffic received from the VM does not match the dynamic VLAN tag configured for the VM. Hence the VM will not be dynamically associated to any VLAN.

Remedy

Misconfiguration needs to be corrected.

Severity

Error

Message Text

VLAN tag `%vlanTagRx%` of the traffic received from the Virtual Machine with mac `%mac%` does not match with dynamic VLAN tag `%vlanTagCfg%` configured for the VM.

Message Parameters

Name	Type
mac	MAC
vlanTagRx	VLAN-tag
vlanTagCfg	VLAN-tag

VMT.VMVRMsmtch

Description

If a VM has a VR onfigured for dynamic VLAN creation, the VR should be the same as the VR to which the port (on which the VM has been detected) belongs to. If the port does not belong to any VR and if VLAN with the dynamic VLAN tag configured for the VM already exists, the configured VR should match the VR to which the dynamic VLAN belongs to. Hence the VM will not be dynamically associated to any VLAN.

Remedy

Misconfiguration needs to be corrected.

Severity

Error

Message Text

VR %vrCfg% configured for dynamic VLAN for VM with mac %mac% is not same as VR %vrPortVLAN% of the VM's port or existing dynamic VLAN

Message Parameters

Name	Type
mac	MAC
vrCfg	String
vrPortVLAN	String

VMT.ChgVRAuthVMFail

Description

If a VM has a VR onfigured for dynamic VLAN creation and if the VM is currently authenticated, the VR alone cannot be changed. This is because the dynamic VLAN already created in, say, VR1 cannot be dynamically moved to, say, VR2. Hence the VR can be changed only along with a change in the VLAN tag configuration.

Remedy

Misconfiguration needs to be corrected. If you want the dynamic VLAN to move to another VR with the same VLAN tag, stop the traffic from the VM and clear the FDB entry (or wait till ageout) and when the VM is detected again, it will be placed in the VLAN the same VLAN tag in the changed VR, provided no other client is already configured for the same VLAN tag on a different VR. Another option is to change both the VLAN tag and the VR.

Severity

Error

Message Text

Changing the VR alone from \"%vrCfg%\" to \"%vrChg%\" for authenticated VM with MAC %mac% failed since there is no change in VLAN tag configuration.

Message Parameters

Name	Type
mac	MAC
vrCfg	String
vrChg	String

VMT.VSMTrace

Description

This message is used for debugging problems related to VM Tracking and Virtual Switch Manager interactions. This is normal and does not indicate a problem.

Remedy

No action required - Informational message only.

Severity

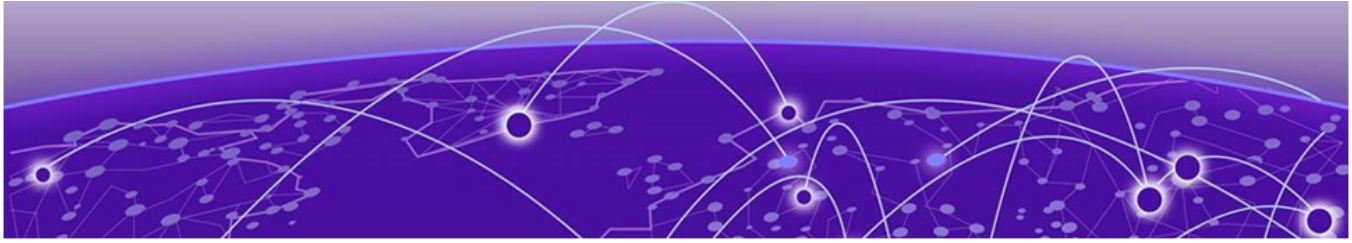
Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



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VPEX.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.RxCSPPkt

Description

Debug log to dump out received packet contents

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Received CSP packet from port `%port%` with a length of `%len%` bytes

Message Parameters

Name	Type
port	SlotPort
ptr	Buf-ptr
len	Buf-len

VPEX.TxCSPPkt

Description

Debug log to dump out transmit packet contents

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Transmit CSP packet to port `%port%` with a length of `%len%` bytes

Message Parameters

Name	Type
port	SlotPort
ptr	Buf-ptr
len	Buf-len

VPEX.DtectBPE

Description

An 802.1BR Bridge Port Extender was detected and will be brought up.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Bridge Port Extender model `%modelName%` detected as slot `%slot%` on port `%cascadePort%`

Message Parameters

Name	Type
modelName	String
slot	Slot
cascadePort	SlotPort

VPEX.RxNewCSPOpen

Description

A new CSP Open request was received. This will cause state machines to reinitialize.

Remedy

This can happen under normal conditions. If this condition continues to persist, reboot the attached VPEX BPE.

Severity

Notice

Message Text

Received new CSP Open Request from `%mac%` on cascade port `%cascadePort%`

Message Parameters

Name	Type
mac	MAC
cascadePort	SlotPort

VPEX.CSPSRWaitTimerExp

Description

The controlling bridge did not receive a response to a local request within the CSP protocol SR wait period. This will cause state machines to reinitialize.

Remedy

This can happen under normal conditions. If this condition continues to persist, reboot the attached VPEX BPE.

Severity

Warning

Message Text

CSP SR Wait Timer expired for BPE `%mac%` slot `%extSlot%` on cascade port `%cascadePort%` fsmPort `%fsmPort%`. MsgType:`%mtype%` SubType:`%subtype%` RemoteCSP:`%remoteCSP%` LocalCSP:`%localCSP%` qCount:`%qcount%`

Message Parameters

Name	Type
mac	MAC
cascadePort	SlotPort
fsmPort	SlotPort
mtype	uInt32
subtype	uInt32
remoteCSP	uInt32
localCSP	uInt32
extSlot	uInt32
qcount	uInt32

VPEX.CSPRRWaitTimerExp

Description

The controlling bridge is actively processing a request from the BPE but needs more time. The controlling bridge will send an IN_PROGRESS message to the BPE.

Remedy

Verify the controlling bridge CPU load is normal.

Severity

Notice

Message Text

CSP RR Wait Timer expired for BPE `%mac%` slot `%extSlot%` on cascade port `%cascadePort%`.

Message Parameters

Name	Type
mac	MAC
cascadePort	SlotPort
extSlot	uInt32

VPEX.RxPDUMsg

Description

Used for displaying received PDU messages when debugging

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VPEX.TxPDUMsg

Description

Used for displaying transmitted PDU messages when debugging

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VPEX.RxPDUFSMTrace

Description

Trace Rx PDU State Machine State transitions

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

FSM on port `%port%` `%curState%` -> `%newState%`

Message Parameters

Name	Type
port	SlotPort
curState	String
newState	String

VPEX.TxPDUFSMTrace

Description

Trace Tx PDU State Machine State transitions

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

FSM on port `%port%` `%curState%` -> `%newState%`

Message Parameters

Name	Type
port	SlotPort
curState	String
newState	String

VPEX.LocReqFSMTrace

Description

Trace Local Request State Machine State transitions

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Local FSM on port `%port%` `%curState%` -> `%newState%`

Message Parameters

Name	Type
port	SlotPort
curState	String
newState	String

VPEX.RmtReqFSMTrace

Description

Trace Remote Request State Machine State transitions

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Remote FSM on port `%port%` `%curState%` -> `%newState%`

Message Parameters

Name	Type
port	SlotPort
curState	String
newState	String

VPEX.Error

Description

A problem has been detected which is interfering with the normal operation of the system. The system is not functioning as expected. The problem may be related to the failure to allocate an internal system resource.

Remedy

The exact remedy is dependant on the particular situation; but the problem may be resolved by retrying the operation when the resource becomes available.

Severity

Error

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.RecvECPClbk

Description

The CSP layer received a callback from the ECP transport layer. This happens normally when a PDU is received.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.CardStateTrans

Description

A card state machine transition has occurred for a VPEX slot.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.POEPortStateChg

Description

The POE port state has changed due to user intervention or other reasons. The port state can be "Disabled", "Searching", "Delivering", "Fault".

Remedy

There is no remedy because there is no problem to be resolved.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.ECIDTrace

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.CSPOpenTrace

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VPEX.POEThrshldExcd

Description

Measured POE usage has exceeded the threshold for the slot.

Remedy

Make sure the powered devices attached to this slot are behaving as expected.

Severity

Notice

Message Text

Power `%power%` W has exceeded the threshold for slot `%slot%`

Message Parameters

Name	Type
power	uInt32
slot	uInt32

VPEX.POEThrshldClr

Description

Measured POE usage has dropped below the threshold for the slot.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Power `%power%` W has cleared the threshold for slot `%slot%`

Message Parameters

Name	Type
power	uInt32
slot	uInt32

VPEX.MLAGTrace

Description

This message is used to trace various events when using MLAG in combination with VPEX. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VPEX.Info

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.DynCscdCfgTrace

Description

This message is used to trace dynamic cascade port configuration events. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VPEX.PECSPMACDup

Description

Each trusted ports should have unique PECSP mac address assigned, if VPEX controlling-bridge detects a duplicate PECSP MAC then this event occurs. Having duplicate PECSP mac address among BPEs could lead to control plane instability.

Remedy

The Port Extender device with duplicate PECSP mac needs to be reprogrammed with a unique mac, please contact tech support.

Severity

Error

Message Text

PECSP MAC `%mac%` learnt on port `%port1%` already exists on port `%port2%`.

Message Parameters

Name	Type
mac	String
port1	SlotPort
port2	SlotPort

VPEX.TxECPFail

Description

ECP failed to transmit the specified PE-CSP PDU on the port. This can happen when ECP exceeded its re-transmit count without receiving an acknowledgement from the BPE.

Remedy

In most cases, the CSP state machine will restart and recover automatically. If this does not happen, rebooting the BPE or controlling-bridge switch can recover the control plane connection.

Severity

Warning

Message Text

ECP failed to transmit `%msgType%` `%cspCommand%` sub-type `%subType%` on port `%port%`

Message Parameters

Name	Type
cspCommand	String
msgType	String
subType	String
port	SlotPort

VPEX.TopoGetTrace

Description

Trace VPEX Topology Get

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%tinfo%`

Message Parameters

Name	Type
tinfo	String

VPEX.IgnEvent

Description

The VPEX state machine encountered an unexpected state + event combination. This might happen when a BPE is unexpectedly disconnected and reconnected.

Remedy

In most cases, the CSP state machine will restart and recover automatically. If this does not happen, rebooting the BPE or controlling-bridge switch can recover the control plane connection.

Severity

Warning

Message Text

Ignored event `%event%` on port `%port%` in state `%state%`

Message Parameters

Name	Type
event	String
port	SlotPort
state	String

VPEX.ForceTrustToExtTx

Description

A ForceTrustedToExt message was sent. Event says why the message was sent.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Transmitted ForceTrustedToExt on port `%Port%` - `%event%`

Message Parameters

Name	Type
Port	SlotPort
event	String

VPEX.ForceTrustToExtNotTx

Description

A ForceTrustedToExt request message was not sent. Event shows why the message was not sent.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

ForceTrustedToExt request message was not sent on port `%Port%` - `%event%`

Message Parameters

Name	Type
Port	SlotPort
event	String

VPEX.ForceTrustToExtRspnsRx

Description

A ForceTrustedToExt response message was received. Event gives the status of ForceTrustedToExt response processing.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received ForceTrustedToExt on port `%Port%` - `%event%`

Message Parameters

Name	Type
Port	SlotPort
event	String

VPEX.ExtPortDelReqTx

Description

An ExtendedPortDelete request message was sent. Event shows why the message was sent.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Transmitted ExtendedPortDelete request message on port `%Port%` - `%event%`

Message Parameters

Name	Type
Port	SlotPort
event	String

VPEX.ExtPortDelReqNotTx

Description

An ExtendedPortDelete request message was not sent.Event shows why the message was not sent.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

ExtendedPortDelete request message was not sent on port `%Port%` - `%event%`

Message Parameters

Name	Type
Port	SlotPort
event	String

VPEX.ExtPortDelRspnsRx

Description

An ExtendedPortDelete response message was received. Event gives the status of ExtendedPortDelete response processing

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Received ExtendedPortDelete response message on port `%Port%` - `%event%`

Message Parameters

Name	Type
Port	SlotPort
event	String

VPEX.AsyncCbTiming

Description

This mnemonic is used to record a log message when (1) the dot1brLocReqGetInSyncWithAsync function is successfully called to queue a callback, (2) the dot1brOrgSpec_handleGetInSyncWithAsync function is called to successfully queue the callback to the EXOS dispatcher, and (3) by the callback itself. Since the callback is not part of the getInSyncWithAsync system itself, it is the responsibility of its writer to include a log using this mnemonic.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VPEX.AutoUpgrdRebootSlot

Description

Controlling brigde has determined that the VPEX slot requires upgrade and since auto-upgrade is enabled, it is rebooting the VPEX slot so that upgrade can happen.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Rebooting VPEX slot `%slot%` for auto-upgrade to happen.

Message Parameters

Name	Type
slot	uInt32

VPEX.ChkpMsgTrace

Description

Trace VPEX Checkpoint Message

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

`%tinfo%`

Message Parameters

Name	Type
tinfo	String

VPEX.IPMCECIDTrace

Description

This message is used to trace IPMC Echannel ID programming. This traces the following: (1) IPMC Echannel ID programming requests from HAL. (2) IPMC Echannel ID requests received from MLAG peer. (3) IPMC Echannel ID related CSP requests sent to BPE.

Remedy

No action required - Informational message only.

Severity

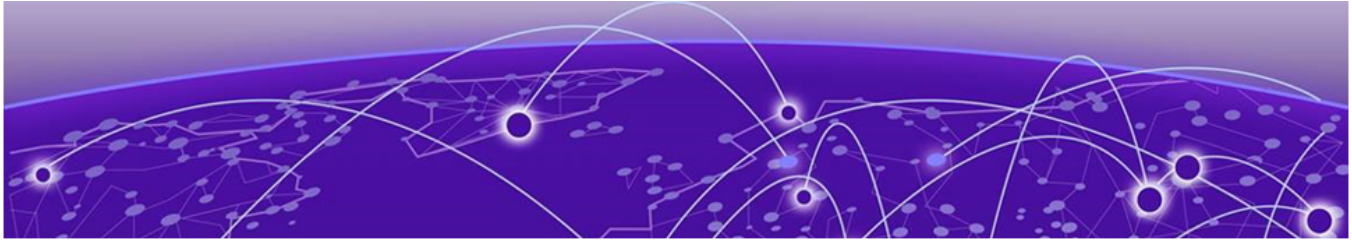
Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf



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VPEX.AutoConfig.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.AutoConfig.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.AutoConfig.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.AutoConfig.Enbl

Description

VPEX Auto-Configuration has been enabled by CLI command or other configuration agent.

Remedy

No action required - Notification message only. Further details may be seen via CLI commands: "show vpex," "show vpex ports," "show sharing," and "show slot."

Severity

Notice

Message Text

VPEX Auto-Configuration is Enabled by `%account%`

Message Parameters

Name	Type
account	AccountName

VPEX.AutoConfig.Dsbl

Description

VPEX Auto-Configuration has been disabled by CLI command or other configuration agent.

Remedy

No action required - Notification message only. Further details may be seen via CLI commands: "show vpex," "show vpex ports," "show sharing," and "show slot."

Severity

Notice

Message Text

VPEX Auto-Configuration is Disabled by `%account%`

Message Parameters

Name	Type
account	AccountName

VPEX.AutoConfig.BlkCfgCmd

Description

VPEX Auto-Configuration has blocked an attempt to configure VPEX cascade ports and extended slots via CLI command or other configuration agent.

Remedy

Before configuring VPEX ports and slots by CLI command or other configuration agent, disable VPEX Auto-Configuration using CLI command: "debug vpex disable auto-configuration"

Severity

Error

Message Text

Cannot configure VPEX ports and slots via CLI command or other configuration agent while VPEX Auto-Configuration is enabled.

VPEX.AutoConfig.AllocSlot

Description

Upon discovering a new BPE neighbor on a new port, VPEX Auto-Configuration has allocated an extended slot number and configured the port as the master port of a VPEX cascade port trunk.

Remedy

No action required - Notification message only. Further details may be seen via CLI commands: "show vpex," "show vpex ports," "show sharing," and "show slot."

Severity

Debug-Summary

Message Text

VPEX Auto-Configuration allocating extended slot number `%extendedSlot%` to cascade port trunk `%cascadePort%`.

Message Parameters

Name	Type
extendedSlot	Slot
cascadePort	SlotPort

VPEX.AutoConfig.AddPort

Description

Upon discovering a known BPE on a new port, VPEX Auto-Configuration has added the new port to the existing VPEX cascade port trunk.

Remedy

No action required - Notification message only. Further details may be seen via CLI commands: "show vpex," "show vpex ports," "show sharing," and "show slot."

Severity

Notice

Message Text

Add port `%newPort%` to cascade port load sharing group `%cascadePort%`

Message Parameters

Name	Type
newPort	SlotPort
cascadePort	SlotPort

VPEX.AutoConfig.DelPort

Description

Upon discovering a change of neighbor on a non-master port of a VPEX cascade port trunk, VPEX Auto-Configuration has deleted the port from the VPEX cascade port trunk.

Remedy

No action required - Notification message only. Further details may be seen via CLI commands: "show vpex," "show vpex ports," "show sharing," and "show slot."

Severity

Notice

Message Text

Delete port `%oldPort%` from cascade port load sharing group `%cascadePort%`

Message Parameters

Name	Type
oldPort	SlotPort
cascadePort	SlotPort

VPEX.AutoConfig.FreeSlot

Description

Upon discovering a change of neighbor on a master port of a VPEX cascade port trunk, VPEX Auto-Configuration has unconfigured the VPEX cascade port trunk, and freed its extended slot number.

Remedy

No action required - Notification message only. Further details may be seen via CLI commands: "show vpex," "show vpex ports," "show sharing," and "show slot."

Severity

Notice

Message Text

VPEX Auto-Configuration freeing extended slot number `%extendedSlot%` and cascade port trunk `%cascadePort%`.

Message Parameters

Name	Type
extendedSlot	Slot
cascadePort	SlotPort

VPEX.AutoConfig.TrunkCflct

Description

VPEX Auto-Configuration keeps a list of BPE's it has detected, and creates a Cascade Port Trunk upon initial discovery. On subsequent discovery of a known BPE, VPEX Auto-Configuration adds the new port to the Trunk, provided the new port is on the same slot and not already part of a Trunk.

Remedy

This event may occur after moving cables or using CLI commands to modify configuration while VPEX Auto-Configuration is running, or by cabling BPE's together in an unsupported pattern. Use "show log" to look for errors or warnings, and "show config vpex" to see configuration elements added by VPEX Auto-Configuration and other configuration agents.

Severity

Warning

Message Text

Port `%port%` is already part of a trunk and cannot be added to the cascade port trunk `%cascadePort%`.

Message Parameters

Name	Type
port	SlotPort
cascadePort	SlotPort

VPEX.AutoConfig.SlotCflct

Description

VPEX Auto-Configuration keeps a list of BPE's it has detected, and creates a Cascade Port Trunk upon initial discovery. On subsequent discovery of a known BPE, VPEX Auto-Configuration adds the new port to the Trunk, provided the new port is on the same slot and not already part of a Trunk.

Remedy

This event may occur after moving cables or using CLI commands to modify configuration while VPEX Auto-Configuration is running, or by cabling BPE's together

in an unsupported pattern. Use "show log" to look for errors or warnings, and "show config vpex" to see configuration elements added by VPEX Auto-Configuration and other configuration agents.

Severity

Warning

Message Text

Port `%port%` is not on the same slot and cannot be added to the cascade port trunk `%cascadePort%`.

Message Parameters

Name	Type
port	SlotPort
cascadePort	SlotPort

VPEX.AutoConfig.TermSelf

Description

VPEX Auto-Configuration has disabled itself after detecting conditions beyond its abilities to handle reliably.

Remedy

This event may occur after moving cables or using CLI commands to modify configuration while VPEX Auto-Configuration is running, or by cabling BPE's together in an unsupported pattern. To provide ideal conditions for VPEX Auto-Configuration, power down BPE's, unconfigure the Controlling Bridge and then power it down, check cabling matches a supported pattern, power up all BPE's, and then power-up the Controlling Bridge. Activate VPEX Auto-Configuration. Each tier of BPE's will take between 30 and 60 seconds to come up, and may require a few minutes extra per tier to upgrade firmware. Avoid moving cables or cycling power while the VPEX slots are coming up. Enable log target console via CLI, or invoke the equivalent on a management console to see events as they occur. This version of VPEX Auto-Configuration supports configuration of BPE's connected to both switches of an MLAG pair, but does not support multiple MLAG peers. Inter-system connections must be up for VPEX Auto-Configuration to coordinate configuration between the two MLAG peers to avoid additional delays and time-outs. This version supports only initial configuration, and does not support dynamic re-configuration.

Severity

Notice

Message Text

VPEX Auto-Configuration is terminating itself to avoid conflicts.

VPEX.AutoConfig.Strt

Description

VPEX Auto-Configuration has been initialized and is ready to detect MLAG configuration or to start configuration in non-MLAG mode.

Remedy

No action required - Informational message only. Further details may be seen via CLI commands: "show vpex," and "show vpex auto-configuration."

Severity

Info

Message Text

VPEX Auto-Configuration is ready to start.

VPEX.AutoConfig.ActvNoMLAG

Description

VPEX Auto-Configuration has detected no MLAG configuration and is actively detecting BPE's without waiting for or coordinating with an MLAG peer.

Remedy

No action required - Informational message only. Further details may be seen via CLI commands: "show vpex," "show mlag port," and "show vpex auto-configuration."

Severity

Info

Message Text

VPEX Auto-Configuration is active for non-MLAG configuration.

VPEX.AutoConfig.End

Description

VPEX Auto-Configuration without MLAG support has ended.

Remedy

Reasons for VPEX Auto-Configuration in non-MLAG mode being ended could be that CLI command 'disable vpex auto-configuration' was executed, or connection to MLAG peer was detected. VPEX Auto-Configuration can be re-enabled, but if it is enabled in MLAG mode, existing extended slot configuration will not be synced to the MLAG peer. User intervention might be needed. Further details may be seen via CLI scommands: "show vpex," "show mlag port," and "show vpex auto-configuration."

Severity

Notice

Message Text

VPEX Auto-Configuration in non-MLAG mode has ended.

VPEX.AutoConfig.WaitMLAG

Description

VPEX Auto-Configuration has detected an MLAG configuration and is waiting for connection to MLAG peer and/or CLI enable command.

Remedy

No action required - Informational message only. To begin automatic configuration in MLAG mode, the inter-system-connection port with index 1 must be up, and VPEX Auto-Configuration mode must be enabled by the command "enable vpex auto-configuration."

Severity

Info

Message Text

VPEX Auto-Configuration is waiting for connection to MLAG peer.

VPEX.AutoConfig.MLAGRdy

Description

VPEX Auto-Configuration has detected a connection to an MLAG peer and is waiting for an enable command.

Remedy

No action required - Informational message only. To begin automatic configuration in MLAG mode, the inter-system-connection port with index 1 must be up, and VPEX Auto-Configuration mode must be enabled by the command "enable vpex auto-configuration."

Severity

Info

Message Text

VPEX Auto-Configuration is ready to start configuration in MLAG mode.

VPEX.AutoConfig.ActvMLAGSlotReq

Description

VPEX Auto-Configuration is actively detecting BPE's and requesting slot numbers from an MLAG peer.

Remedy

No action required - Notification message only. Further details may be seen via CLI commands: "show vpex," "show mlag port," and "show vpex auto-configuration."

Severity

Notice

Message Text

VPEX Auto-Configuration is active as a requestor of slot number allocations for an MLAG pair.

VPEX.AutoConfig.ActvMLAGSlotMgr

Description

VPEX Auto-Configuration is actively detecting BPE's, allocating slot numbers, and coordinating with an MLAG peer.

Remedy

No action required - Notification message only. Further details may be seen via CLI commands: "show vpex," "show mlag port," and "show vpex auto-configuration."

Severity

Notice

Message Text

VPEX Auto-Configuration is active as the manager of slot number allocations for an MLAG pair.

VPEX.AutoConfig.MLAGEnd

Description

VPEX Auto-Configuration with MLAG support has ended.

Remedy

Reasons for VPEX Auto-Configuration in MLAG mode being ended could be that CLI command 'disable vpex auto-configuration' was executed on one of Controlling Bridges, connection to MLAG peer went down, or some conflict between MLAG peers was detected. After connection to MLAG peer comes up or conflicts have been manually solved, user could try to re-enable VPEX Auto-Configuration.

Severity

Notice

Message Text

VPEX Auto-Configuration in MLAG mode has ended.

VPEX.AutoConfig.InitTrunkCflct

Description

On initial discovery of a BPE on a port, VPEX Auto-Configuration uses the port to form a cascade port trunk, provided the new port is not already part of a Trunk.

Remedy

This event may occur after moving cables or using CLI commands to modify configuration while VPEX Auto-Configuration is running, or by cabling BPE's together in an unsupported pattern. Use "show log" to look for errors or warnings, and "show config vpex" to see configuration elements added by VPEX Auto-Configuration and other configuration agents.

Severity

Warning

Message Text

Port `%port%` is already part of a trunk and cannot be reconfigured as a new cascade port trunk.

Message Parameters

Name	Type
port	SlotPort

VPEX.AutoConfig.DebugNotice

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.AutoConfig.ExtSlotCflctDtect

Description

On discovery of a BPE previously in use as an extended slot, VPEX Auto-Configuration will ignore the BPE to avoid configuring a duplicate extended slot.

Remedy

This event may occur after moving cables or using CLI commands to modify configuration while VPEX Auto-Configuration is running, or by cabling BPE's together in an unsupported pattern. Use "show log" to look for errors or warnings, and "show config vpex" to see configuration elements added by VPEX Auto-Configuration and other configuration agents. After checking that the BPE's are cabled in a supported pattern, modify the configuration manually, or unconfigure the switch to allow VPEX Auto-Configuration to capture the new configuration without conflicts.

Severity

Warning

Message Text

BPE `%peMACAddress%` discovered on port `%slotPort%` was previously in use as extended slot `%extSlotNum%` and cannot be automatically configured with a new slot number.

Message Parameters

Name	Type
peMACAddress	MAC
slotPort	SlotPort
extSlotNum	Slot

VPEX.AutoConfig.WaitCfgSlotDtect

Description

Until all configured extended slots have been discovered, VPEX Auto-Configuration cannot allocate new extended slot numbers.

Remedy

This condition may occur normally after a save and a reboot and will resolve itself after a few minutes, or it may occur and persist after moving cables or using CLI commands to modify configuration while VPEX Auto-Configuration is running, or by cabling BPE's together in an unsupported pattern. Use "show log" to look for errors or warnings, and "show config vpex" to see configuration elements added by VPEX Auto-Configuration and other configuration agents. After checking that the BPE's are cabled in a supported pattern, modify the configuration manually, or unconfigure the switch to allow VPEX Auto-Configuration to capture the new configuration without conflicts.

Severity

Warning

Message Text

VPEX Auto-Configuration is waiting for configured BPE's to be discovered.

VPEX.AutoConfig.DoneCfgSlotDtect

Description

All configured extended slots have been discovered, and VPEX Auto-Configuration can allocate new extended slot numbers.

Remedy

No action required - Notification message only. Further details may be seen via CLI commands: "show vpex," "show vpex ports," "show sharing," and "show slot."

Severity

Notice

Message Text

VPEX Auto-Configuration has finished waiting for configured BPE's to be discovered.

VPEX.AutoConfig.MLAGPeerUp

Description

Connection to a MLAG peer comes up.

Remedy

No action required - Notification message only. If VPEX auto-configuration is enabled in non-MLAG mode, this event would end the VPEX auto-configuration.

Severity

Notice

Message Text

Connection to a MLAG peer comes up.

VPEX.AutoConfig.MLAGPeerDown

Description

Connection to MLAG peer goes down.

Remedy

No action required - Notification message only. If VPEX Auto-Configuration is enabled in MLAG mode, this event would end VPEX Auto-Configuration.

Severity

Notice

Message Text

Connection to MLAG peer goes down.

VPEX.AutoConfig.MLAGNotRdyEnblFail

Description

MLAG ISC is down. VPEX Auto-Configuration cannot be enabled.

Remedy

MLAG ISC is configured but is down. To enable VPEX Auto-Configuration, either bring up MLAG ISC or remove configuration of MLAG ISC.

Severity

Notice

Message Text

MLAG ISC is down. VPEX Auto-Configuration cannot be enabled.

VPEX.AutoConfig.EnblTrunk

Description

Upon discovering a new BPE on a port, VPEX Auto-Configuration enables sharing on the port.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Enable sharing on port `%port%`

Message Parameters

Name	Type
port	SlotPort

VPEX.AutoConfig.DsblTrunk

Description

When a cascade port needs to be unconfigured, VPEX Auto-Configuration disables sharing on the port if sharing was enabled on the port. Or if a new BPE is discovered on master port of an existing trunk port, VPEX Auto-Configuration disables sharing on the port before it tries to configure the port as a cascade port.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Disable sharing on port `%port%`

Message Parameters

Name	Type
port	SlotPort

VPEX.AutoConfig.CfgCscdPort

Description

Upon discovering a new BPE on a port, VPEX Auto-Configuration assigns slot number for the BPE and configures the port as a cascade port.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Configure VPEX cascade on port `%port%` with slot `%slotNum%`

Message Parameters

Name	Type
port	SlotPort
slotNum	Slot

VPEX.AutoConfig.UnCfgCscdPort

Description

When VPEX Auto-Configuration detects slot number associated with a cascade port needs to be freed, it unconfigures the cascade port.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Unconfigure VPEX cascade port `%port%`

Message Parameters

Name	Type
port	SlotPort

VPEX.AutoConfig.EnblMLAGPort

Description

In MLAG setup, VPEX Auto-Configuration configures MLAG port on the native cascade port.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Enable MLAG on port `%port%` with peer `%peerName%` and MLAG port ID `%portId%`

Message Parameters

Name	Type
port	SlotPort
peerName	String
portId	uInt

VPEX.AutoConfig.DsblMLAGPort

Description

When a cascade port needs to be unconfigured, VPEX Auto-Configuration also disables MLAG port if MLAG port was enabled on the cascade port.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Disable MLAG on port `%port%`

Message Parameters

Name	Type
port	SlotPort

VPEX.AutoConfig.ClrRing

Description

VPEX Auto-Configuration clears the ring when it detects the ring need to be re-formed. It destroys the ring and makes the ring to converge into two independent configured cascades. All ring related data struct will be cleaned. It happens only when ring is Severed.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Clear the ring from ring node `%slot%` on port `%port%`

Message Parameters

Name	Type
slot	Slot
port	SlotPort

VPEX.AutoConfig.CfgCscdMLAGId

Description

In one-armed MLAG setup, VPEX Auto-Configuration creates virtual MLAG port and configures the virtual MLAG port as a cascade port.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Configure VPEX cascade on MLAG port `%portId%` with slot `%slotNum%`

Message Parameters

Name	Type
portId	uInt
slotNum	Slot

VPEX.AutoConfig.UnCfgCscdMLAGId

Description

When VPEX Auto-Configuation detects slot number associated with a cascade port needs to be freed, it unconfigures cascade port.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Unconfigure VPEX cascade port associated with MLAG port ID `%portId%`

Message Parameters

Name	Type
portId	uInt

VPEX.AutoConfig.CscdUnsuprtSlot

Description

VPEX auto-config detected a cascaded BPE on a BPE slot that does not support cascading. The BPE detection will be ignored and no associated VPEX configuration will be added.

Remedy

Reconnect the subtended BPE to the controlling bridge directly or to another BPE which supports cascading.

Severity

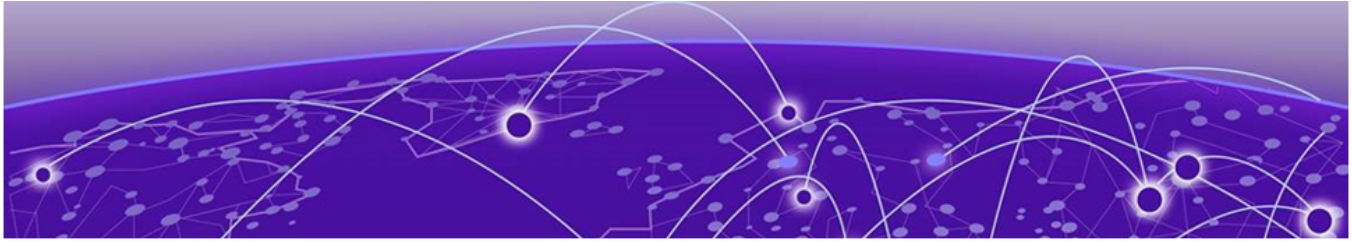
Warning

Message Text

BPE slot `%slotNo%` does not support cascading

Message Parameters

Name	Type
slotNo	uInt



VPEX.Ring Messages

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VPEX.Ring.DebugSummary

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.Ring.DebugVerbose

Description

A condition has been detected that may interest a developer analyzing some system behavior at a more verbose level than provided by the debug summary information.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.Ring.DebugData

Description

A condition has been detected that may interest a developer inspecting the data underlying system behavior

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VPEX.Ring.Dtect

Description

A connection has been discovered between 2 VPEX cascaded daisy chains. This connection establishes a redundant ring topology. The ring activation process will proceed next.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Ring detected between ports `%port1%` and `%port2%`

Message Parameters

Name	Type
port1	SlotPort
port2	SlotPort

VPEX.Ring.VerNotCompat

Description

A connection has been discovered between 2 VPEX cascaded daisy chains. However, the specified slot has an older version not compatible with ring topology operation.

Remedy

Perform VPEX slot software update by installing the "vpex_controlling_bridge.lst" image containing the latest VPEX slot software version. Further details may be seen via CLI command: "show version"

Severity

Warning

Message Text

Incompatible slot `%slot%` version preventing ring detection between ports `%port1%` and `%port2%`

Message Parameters

Name	Type
slot	Slot
port1	SlotPort
port2	SlotPort

VPEX.Ring.Error

Description

A generic Error condition occurred. These should eventually be replaced with more specific error logs

Remedy

No action required

Severity

Error

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VPEX.Ring.FSMTrace

Description

Trace Ring State Machine State transitions

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

RingId `%ringId%` L:`%leftSlot%` R:`%rightSlot%` FSM `%curState%` -> `%newState%`, `%event%`

Message Parameters

Name	Type
ringId	sInt32
leftSlot	sInt32
rightSlot	sInt32
curState	String

Name	Type
newState	String
event	String

VPEX.Ring.NodeFSMTrace

Description

Trace Ring Node State Machine State transitions

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

RingNode `%slot%` ringId:`%ringId%` FSM `%curState%` -> `%newState%`, `%event%`

Message Parameters

Name	Type
slot	sInt32
ringId	sInt32
curState	String
newState	String
event	String

VPEX.Ring.CfgStrt

Description

Ring configuration started

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Ring configuration started on ring with native port `%nslot%:%nport%`

Message Parameters

Name	Type
nslot	sInt32
nport	sInt32

VPEX.Ring.CfgDone

Description

Ring configuration complete

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Ring configuration completed on ring with native port `%nslot%:%nport%`

Message Parameters

Name	Type
nslot	sInt32
nport	sInt32

VPEX.Ring.NodeCfgStrt

Description

Ring Node configuration started

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

RingNode slot `%slot%` configuration started on ring with native port `%nslot%:%nport%`

Message Parameters

Name	Type
slot	sInt32
nslot	sInt32
nport	sInt32

VPEX.Ring.NodeCfgRdy

Description

Ring Node configuration is ready.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

RingNode slot `%slot%` configuration ready on ring with native port `%nslot%:%nport%`

Message Parameters

Name	Type
slot	sInt32
nslot	sInt32
nport	sInt32

VPEX.Ring.LinkFail

Description

A Ring Link Failure Notification (RLFN) message was received. This message emanates from a cascade port on a BPE whose upstream port has lost its connection to the controlling bridge. The ring is severed, and the BPEs that remain are forming cascades to the controlling bridge. That cascade port becomes upstream for that BPE. BPE that are upstream from the BPE that detected the failure have received and are reacting to the RLFN message, reorienting the data flow direction where required. Use "show vpex topology {detail}" for more information.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Ring Link Failure Notification for BPE upstream port `%slot%:%port%` with PE CSP address `%mac%`

Message Parameters

Name	Type
slot	sInt32
port	sInt32
mac	String

VPEX.Ring.ReblNce

Description

A Ring Link Failure Notification (RLFN) message was received. This message was sent by the controlling bridge to initiate ring rebalancing. The indicated port is one of the ports on the link that will now separate the data plane cascades. The BPEs have been reoriented and the CB will now complete the process.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Ring rebalancing in progress at port `%slot%:%port%`

Message Parameters

Name	Type
slot	sInt32
port	sInt32

VPEX.Ring.ReblnceFail

Description

A Ring rebalancing attempt was started and failed to complete successfully. A message was sent to a BPE to begin rebalancing and that message was not returned as expected after multiple retries. It is possible that the ring is not functional.

Remedy

If the user notices that traffic flow is impaired, the ring may have to be restarted. In that case,the user should disable both native ports connected to the ring and then re-enable them.

Severity

Warning

Message Text

Ring rebalancing failed on ring at native port `%slot%:%port%`.

Message Parameters

Name	Type
slot	sInt32
port	sInt32

VPEX.Ring.Notice

Description

A condition has been detected that may interest a developer determining the reason underlying some system behavior. The circumstances may be either very common or completely unexpected, but the information provided in the associated message is such that the internal workings of the system are exposed.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VPEX.Ring.InvLink

Description

A new ring cannot be formed with this Ring Common Link. The resulting ring could contain a BPE that is already in another ring. This may have been caused by multiple links each connecting different BPEs that are present in the same two cascades. Overlapping rings are not supported. The user should only form rings by connecting the ends of two cascades, or the end of one cascade to a controlling bridge. It is also possible (but unlikely) that this message is due to an attempt to allocate ring data structures when system memory is exhausted.

Remedy

Correct the likely connection problem. If no connection problem exists, use the show memory command

Severity

Notice

Message Text

The link with ports `%slotl%:%portl%` and `%slotr%:%portr%` cannot be used as a Ring Common Link, ring creation failed.

Message Parameters

Name	Type
slotl	sInt32
portl	sInt32
slotr	sInt32
portr	sInt32

VPEX.Ring.Unsuprt

Description

A connection has been discovered between 2 VPEX cascaded daisy chains. However, the specified slot does not support ring topology operation in this version of EXOS.

Remedy

Check whether ring topology is supported on this slot type in a subsequent version of EXOS and consider upgrading if so.

Severity

Warning

Message Text

Slot `%slot%` does not support ring topology in this version of EXOS which is preventing ring detection between ports `%port1%` and `%port2%`

Message Parameters

Name	Type
slot	Slot
portl	SlotPort
port2	SlotPort

VPEX.Ring.SlotCfgTmout

Description

A ring configuration timeout has occurred because a BPE has been unresponsive for a sufficiently long time. The cause may or may not be harmful to the active data path. Depending on the situation, recovery may be possible. Since each situation must be evaluated by the user, rather than attempting to recover the ring, EXOS places the ring into Severed state. The severance occurs at the Ring Common Link so that the data plane will not be (further) disrupted. The ring is then prevented from processing Ring Detect events. In order for future Ring Detect events to cause ring formation, the user must disable or enable any port that is part of the ring connection and is not an active Upstream port. It is recommended that the user disable or enable a port whose link is in Severed state. The user can determine such a port by using the "show vpex topology detail" command and choosing the port designated as a Cascade port on a slot which is marked with the "S" flag. This recommended choice of port should not cause traffic disruption.

Remedy

Inform the administrator and enable ring discovery by disabling or enabling a ring port as described above.

Severity

Error

Message Text

The ring on native port `%nport%` had a configuration time-out for slot `%rslot%`. Ring formation is disabled. Disable or enable a Severed port on this ring to allow ring formation.

Message Parameters

Name	Type
nport	SlotPort
rslot	Slot

VPEX.Ring.SlotCfgTmoutClr

Description

Ring formation was disallowed due to a configuration timeout. The user allowed ring formation by disabling or enabling a port that is part of the ring formation.

Remedy

No remedy needed.

Severity

Notice

Message Text

Ring formation is now allowed on the ring with native port `%nport%`.

Message Parameters

Name	Type
nport	SlotPort

VPEX.Ring.RegNodeClbkFail

Description

When the ring is formed and a ring node is programmed, all BPEs on the backup path must be programmed with the reachability information for the ring node. Programming completion is ensured by monitoring the local request queues on the cascade ports for each BPE in the path. When all related requests in each queue have been processed, a marker placed in each queue is encountered. Once all markers for the BPE that occupies the specified slot are encountered, a ring logic callback function is informed. This message means that a failure was encountered when trying to set up for the callback. The failure could be due to memory exhaustion or the lack of presence of a BPE in the path, or some other error. The failure is mitigated by allowing the ring node to immediately become Ready for use since it is not possible to ensure the integrity of the path to the ring node without the callback mechanism described above.

Remedy

No remedy is available. If automatic ring rebalancing mode is enabled, there may also be a failure to subsequently rebalance, which could leave the ring in a state where its re-establishment cannot be successfully completed. If automatic ring rebalancing is not enabled and the ring becomes disrupted before the path to the BPE slot is completely programmed, the same situation could occur. In such cases the user may eventually see a CfgSlotTmout log message.

Severity

Warning

Message Text

Failed to register ring node path programming complete callback for slot `%slot%`

Message Parameters

Name	Type
slot	sInt32

VPEX.Ring.StrtFailOverProc

Description

A ring failure has been detected and we have begun the process of failing over nodes.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Ring failure processing started on ring with native port `%nslot%:%nport%`

Message Parameters

Name	Type
nslot	sInt32
nport	sInt32

VPEX.Ring.DtectVirtMLAGId

Description

A connection has been discovered between 2 VPEX cascaded daisy chains. This connection establishes a redundant ring topology. The ring activation process will proceed next.

Remedy

No action required - Notification message only.

Severity

Notice

Message Text

Ring detected between virtual MLAG identifier `%mlagIdx%` and port `%port%`

Message Parameters

Name	Type
mlagIdx	uInt32
port	SlotPort

VPEX.Ring.ForceSlotRset

Description

A situation has occurred making a slot unreachable. The slot has been automatically reset to restore reachability.

Remedy

No action required - Notification message only.

Severity

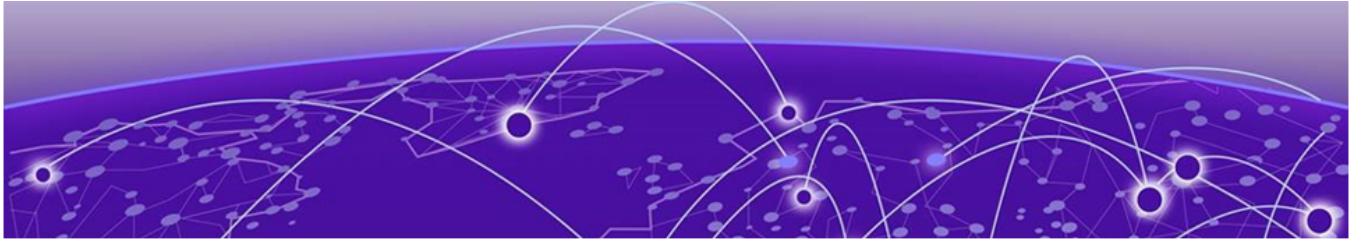
Notice

Message Text

Slot `%nslot%` is unreachable and has automatically been reset.

Message Parameters

Name	Type
nslot	sInt32



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VRRP.CfgInv

Description

The configuration command attempting to be executed failed.

Remedy

No remedy is available.

Severity

Error

Message Text

Invalid config: `%problem%`

Message Parameters

Name	Type
problem	Printf

VRRP.Enter

Description

Debug tracing data.

Remedy

No remedy is available.

Severity

Debug-Verbose

Message Text

Entering function: `%params%`

Message Parameters

Name	Type
params	Printf

VRRP.Trace

Description

Message indicating certain points in the system have been passed. No internal state is presented by this message.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%waypoint%`

Message Parameters

Name	Type
waypoint	Printf

VRRP.UnkIndx

Description

The default case was reached from a switch statement due to an unknown index.

Remedy

No remedy is available.

Severity

Warning

Message Text

Unknown Index (`%index%`) reached in `%description%`

Message Parameters

Name	Type
index	sInt
description	Printf

VRRP.TraceData

Description

Message indicating a certain point in the system has been passed, this message contains protocol state.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

```
%waypoint%
```

Message Parameters

Name	Type
waypoint	Printf

VRRP.ExtCfgChng

Description

Typically a VLAN with a VRRP VR defined on it has been deleted or had IP addresses removed from it. This causes the VRs configuration to be incorrect. VRRP corrects the configuration in light of the change.

Remedy

No remedy is available.

Severity

Warning

Message Text

VRRP VR (Id `%vrid%` on VLAN `%vlanName%`) configuration changed due to configuration change on VLAN `%vlanName%`

Message Parameters

Name	Type
vlanName	String
vrid	uInt32

VRRP.DelVIPFail

Description

The remove operation of this virtual IP address failed.

Remedy

No remedy is available.

Severity

Warning

Message Text

Failed to remove virtual IP address `%ipaddr%` from VR Id `%vrid%` on VLAN `%vlanName%`

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
ipaddr	IP

VRRP.UnkVR

Description

Search for the specified VR did not succeed.

Remedy

No remedy is available.

Severity

Warning

Message Text

No VR found on VLAN `%vlanName%` with VR Id `%vrid%`

Message Parameters

Name	Type
vlanName	String
vrid	uInt32

VRRP.InvVRState

Description

The operation being performed required a VR in the state other than the state shown. This is an internal state inconsistency and is generally very bad.

Remedy

Check to see if VRRP state is correct. If the state is incorrect try disabling and re-enabling the VRRP instance.

Severity

Critical

Message Text

Unexpected state: `%state%`

Message Parameters

Name	Type
state	String

VRRP.SanityFail

Description

This indicates some fundamental assumption the system is making has failed.

Remedy

Disable all VRRP instances, then re-enable each VRRP instance, one at a time.

Severity

Critical

Message Text

Sanity check failure: `%issue%`

Message Parameters

Name	Type
issue	Printf

VRRP.AddMACFail

Description

For some reason the system could not add another MAC address as VRRP required.

Remedy

No remedy is available.

Severity

Warning

Message Text

Failed to add virtual MAC address (`%vmac%`): `%reason%`

Message Parameters

Name	Type
vmac	MAC
reason	Printf

VRRP.VirtualMacAdded

Description

Informative message to aide debugging. This message appears after VRRP has successfully made system calls to add a virtual MAC. If the vMAC is not seen in the system, lower levels need to be investigated (VLAN manager or the HAL).

Remedy

No remedy is available.

Severity

Info

Message Text

VRRP has requested the virtual MAC `%vMac%` be added

Message Parameters

Name	Type
vMac	MAC

VRRP.VirtualMacDeleted

Description

Informative message to aide debugging. This message appears after VRRP has successfully made system calls to delete a virtual MAC. If the vMAC is not removed from the system, lower levels need to be investigated (VLAN manager or the HAL).

Remedy

No remedy is available.

Severity

Info

Message Text

VRRP has requested the virtual MAC `%vMac%` be deleted

Message Parameters

Name	Type
vMac	MAC

VRRP.StateChng

Description

VRRP State Change occured.

Remedy

No remedy is available.

Severity

Notice

Message Text

`%msg%`

Message Parameters

Name	Type
msg	Printf

VRRP.MasterNotHeard

Description

This typically means communication with the MASTER has been interrupted. The number of seconds displayed is three (3) times the configured advertisment interval for this VR.

Remedy

No remedy is available.

Severity

Info

Message Text

VR on VLAN `%vlanName%` with VR Id `%vrid%` has not accepted an advert in more than `%timeout%` seconds

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
timeout	uInt32

VRRP.TimerMisfired

Description

This is occasionally seen, where a timer that was reset fired early due to various scheduling conflicts.

Remedy

No remedy is available.

Severity

Info

Message Text

Timer misfired for VR on VLAN `%vlanName%` with VR Id `%vrid%`, `%secLeft%` and `%usecLeft%` / 1000000 seconds after last advert

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
secLeft	sInt32
usecLeft	sInt32

VRRP.RxAdvertCheckpoint

Description

Debug information to verify Advertisement checkpoint message is being received by peer.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Advert received for vlan `%vlanName%` vrid `%vrid%`

Message Parameters

Name	Type
vlanName	String
vrid	uInt32

VRRP.TxAdvertCheckpoint

Description

Debug information to verify Advertisement checkpoint message is being sent to peer.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Advert checkpointed for vlan `%vlanName%` vrid `%vrid%`

Message Parameters

Name	Type
vlanName	String
vrid	uInt32

VRRP.TxPingTrackCheckpoint

Description

Debug information to verify Ping Track checkpoint message is being sent by peer.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Ping track checkpointed for vlan `%vlanName%` vrid `%vrid%` ipAddr `%ipaddr%`

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
ipaddr	String

VRRP.RxPingTrackCheckpoint

Description

Debug information to verify Ping Track checkpoint message is being received by peer.

Remedy

No remedy is available.

Severity

Debug-Data

Message Text

Ping track checkpoint received for vlan `%vlanName%` vrId `%vrid%` ipaddr `%ipaddr%`

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
ipaddr	String

VRRP.Shutdown

Description

Warning message indicating user has requested to terminate or restart VRRP.

Remedy

No remedy is available.

Severity

Info

Message Text

User initiated shutdown.

VRRP.RxCheckpointError

Description

Problem with received checkpoint messsage. Dropping msg.

Remedy

No remedy is available.

Severity

Warning

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

VRRP.RxCheckpointDebug

Description

Debug message for viewing received checkpointed info

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

VRRP.TxCheckpointDebug

Description

Debug transmit of Checkpoint messages.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

`%message%`

Message Parameters

Name	Type
message	Printf

VRRP.TrackConditionFailed

Description

A track condition failed

Remedy

This is a normal event should any tracking conditions fail.

Severity

Info

Message Text

`%type%` track condition failed for `%instance%` vrid `%vrid%`

Message Parameters

Name	Type
type	String
instance	String
vrid	uInt32

VRRP.StrtPreemptTimer

Description

We have received a lower priority advertisement. We we will preempt the lower priority master after the user defined time delay has elapsed

Remedy

No remedy is available.

Severity

Notice

Message Text

VR on VLAN `%vlanName%` with VR Id `%vrid%` has started its preempt timer of `%timeout%` seconds

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
timeout	uInt32

VRRP.PreemptTimerExp

Description

Our preempt timer has expired. We will now attempt to take over as Master, assuming all tracking conditions are okay.

Remedy

No remedy is available.

Severity

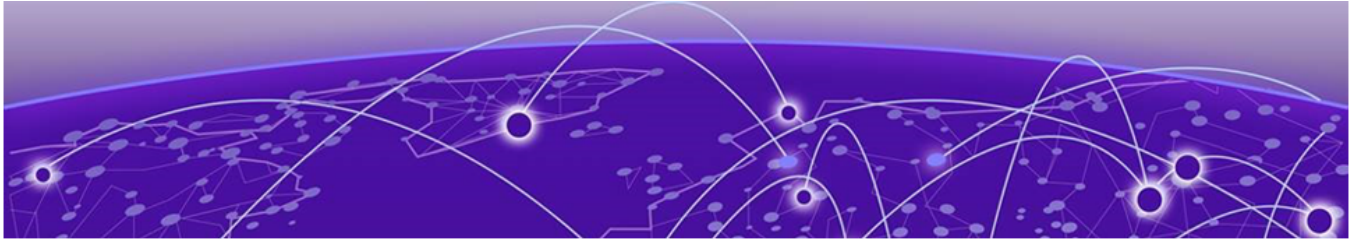
Info

Message Text

Preempt timer for VR on VLAN `%vlanName%` with VR Id `%vrid%` has expired after `%timeout%` seconds

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
timeout	uInt32



VRRP.Advert Messages

VRRP.Advert.Ign on page 5212
VRRP.Advert.Trace on page 5213
VRRP.Advert.Rcv on page 5213
VRRP.Advert.Send on page 5214
VRRP.Advert.Accept on page 5214

VRRP.Advert.Ign

Description

Adverts are supposed to be ignored in certain cases as defined by the RFC.

Remedy

No remedy is available.

Severity

Warning

Message Text

Advert for VR on vlan `%vlanName%` vrid `%vrid%` ignored: `%reason%`

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
reason	Printf

VRRP.Advert.Trace

Description

Log to trace VRRP Advertisements created, sent, and received.

Remedy

No remedy is available.

Severity

Debug-Summary

Message Text

VR on vlan `%vlanName%` with vrid `%vrid%`: `%waypoint%`

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
waypoint	Printf

VRRP.Advert.Rcv

Description

This advert has been received and passed all validity checks.

Remedy

No remedy is available.

Severity

Info

Message Text

Advertisement received on vlan `%vlanName%` vrid `%vrid%` from `%advertSrcAddr%`

Message Parameters

Name	Type
advertSrcAddr	IPaddr
vlanName	VLAN
vrid	uInt

VRRP.Advert.Send

Description

Checkpoint event at various stages of a successful advert transmit.

Remedy

No remedy is available.

Severity

Info

Message Text

```
%message%
```

Message Parameters

Name	Type
message	String

VRRP.Advert.Accept

Description

This means an advertisment from another switch has come in, passed all validity checks, and indicates the source is a more suitable MASTER for the virtual router.

Remedy

No remedy is available.

Severity

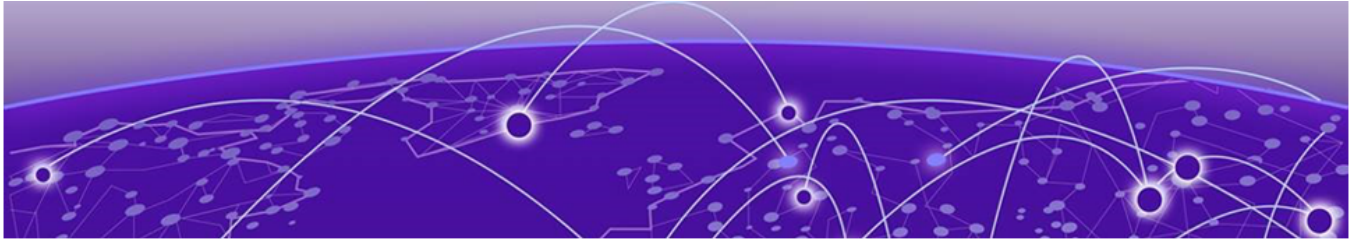
Info

Message Text

Accepted an advertisement on vlan `%vlanName%` for vrid `%vrId%`.

Message Parameters

Name	Type
vlanName	String
vrId	uInt32



VRRP.Group Messages

VRRP.Group.Trace on page 5216
VRRP.Group.GrpOperStateChg on page 5217
VRRP.Group.VROperStateChgExtEvent on page 5217
VRRP.Group.EnblScndVR on page 5218
VRRP.Group.DsblScndVR on page 5219
VRRP.Group.AttachScndVRToGrp on page 5219
VRRP.Group.DtachScndVRFmGrp on page 5220
VRRP.Group.ScndVRStateChgInv on page 5221
VRRP.Group.ScndVRTimerExpInv on page 5221
VRRP.Group.BatchMsg on page 5222

VRRP.Group.Trace

Description

Message indicating certain points in the system have been passed. No internal state is presented by this message.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

```
%waypoint%
```

Message Parameters

Name	Type
waypoint	Printf

VRRP.Group.GrpOperStateChg

Description

Operational state of VRRP group has changed due to either configuration change on group, Primary VR or tracking failure for Primary VR.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Operational state of group `%groupName%` changed from `%prevState%` to `%newState%`, due to `%reason%`. Total number of groups operational `%numOperGroups%`.

Message Parameters

Name	Type
groupName	String
prevState	String
newState	String
reason	String
numOperGroups	uInt32

VRRP.Group.VROperStateChgExtEvent

Description

Typically external events include deleting IP address on a VLAN with a VRRP VR defined on it, removing VLAN, or change in tracking status. This causes the operational state of VR to change to Enabled/Disabled.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

VRRP VR(VLAN %vlanName% VrId %vrid%) of type %vrType% in group %groupName% is operationally %enDisStatus%, due to external event.

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
vrType	String
groupName	String
enDisStatus	String

VRRP.Group.EnblScndVR

Description

VR configured as secondary VR already in the group is getting enabled, due to one of the reasons below. 1) admin state of secondary VR is changed to Enabled, by configuration change 2) group becomes operational due to primary VR moved to Enabled state 3) group admin state is enabled, by configuration change

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Secondary VR(VLAN %vlanName% vrid %vrid%) present in group %groupName% is enabled now.

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
groupName	String

VRRP.Group.DsblScndVR

Description

VR configured as secondary VR already in the group is getting disabled, due to one of the reasons below. 1) admin state of secondary VR is changed to Disabled, by configuration change 2) group becomes operationally Disabled due to primary VR moved to Disabled state

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Secondary VR(VLAN `%vlanName%` vrid `%vrid%`) present in group `%groupName%` is disabled now.

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
groupName	String

VRRP.Group.AttachScndVRToGrp

Description

A VRRP VR which is in operationally Enabled state, is getting attached to a group. If group is already operational, this VR inherits the state of Primary VR.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Secondary VR (VLAN `%vlanName%` Id `%vrid%`) having operational status `%operState%` is attached to group `%groupName%`

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
groupName	String
operState	String

VRRP.Group.DtachScndVRFmGrp

Description

VRRP VR is getting detached from a group. If VR is in Enabled state, it will start operating in individual VR mode in Enabled state. This means that parameters inherited from primary VR will be discarded.

Remedy

No action required - Informational message only.

Severity

Debug-Summary

Message Text

Secondary VR (VLAN `%vlanName%` Id `%vrid%`) having operational status `%operState%` is detached from group `%groupName%`.

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
groupName	String
operState	String

VRRP.Group.ScndVRStateChgInv

Description

Typically secondary VRs should follow state of Primary VRs. This has failed for this VR, due to either following wrong timer expiry, or reception of VRRP priority 0 packet from peer.

Remedy

This is a rare internal condition, 'disable vrrp' followed by 'enable vrrp' may be required. If condition is not resolved by disable/enable vrrp, please contact technical support with the following information: show tech, show vrrp, show vrrp group, show vrrp group <groupName>, show vrrp <vlanName>

Severity

Error

Message Text

Secondary VR(VLAN `%vlanName%` Id `%vrid%` Group `%grpName%`) attempted to transition to state `%scndState%` different from state of Primary VR `%primState%`.

Message Parameters

Name	Type
vlanName	String
vrid	uInt32
grpName	String
scndState	String
primState	String

VRRP.Group.ScndVRTimerExpInv

Description

This indicates the timer was started for Secondary VR which is incorrect for its state. This timer expiry event can cause Secondary VR to be in different state from Primary VR.

Remedy

This is a rare internal condition, 'disable vrrp' followed by 'enable vrrp' may be required. If condition is not resolved by disable/enable vrrp, please contact technical support with the following information: show tech, show vrrp, show vrrp group, show vrrp group <groupName>, show vrrp <vlanName>

Severity

Error

Message Text

`%timerType%` expiry is invalid for Secondary VR (VLAN `%vlanName%` Id `%vrid%` Group `%grpName%`), conflicting Primary VR's state `%primState%`.

Message Parameters

Name	Type
timerType	String
vlanName	String
vrid	uInt16
grpName	String
primState	String

VRRP.Group.BatchMsg

Description

This event indicates that batched messages are sent to other modules. The data presented here will include first VRRP VR's identifiers in the message, batched object type like MAC/IP, first MAC/IP in message, last VRRP VR's identifiers, last MAC/IP in message.

Remedy

No action required - Informational message only.

Severity

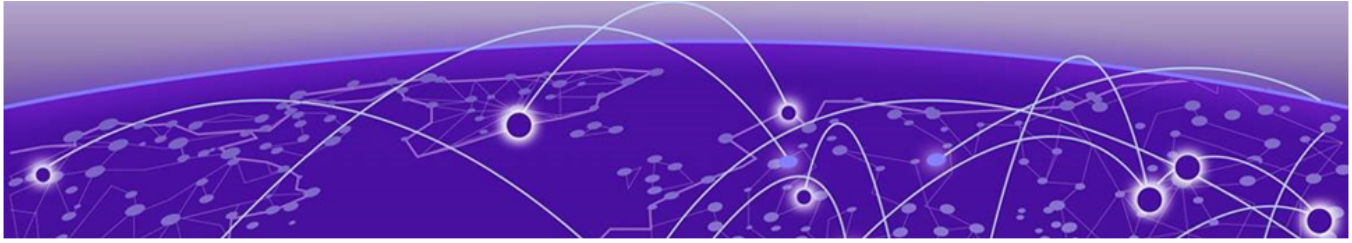
Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf



VRRP.System Messages

VRRP.System.AllocMemFail on page 5224
VRRP.System.VlanNameNotFound on page 5225
VRRP.System.VlanInstNotFound on page 5225
VRRP.System.SubSysInitFail on page 5226
VRRP.System.NoIPAddr on page 5226
VRRP.System.VLANDBInv on page 5227
VRRP.System.VLANRegFail on page 5227
VRRP.System.VLANUnregFail on page 5228
VRRP.System.ESRPConflict on page 5229
VRRP.System.SyscallFail on page 5229
VRRP.System.CallbackFail on page 5230
VRRP.System.LibCallFail on page 5230

VRRP.System.AllocMemFail

Description

An attempt to allocate the specified amount of memory has failed.

Remedy

Optional remedy here.

Severity

Error

Message Text

Memory allocation of `%size%` bytes failed.

Message Parameters

Name	Type
size	uInt32

VRRP.System.VlanNameNotFound

Description

Given the VLAN name, a matching internal data structure was not found.

Remedy

No remedy is available.

Severity

Error

Message Text

Could not find VLAN named `%vlanName%`

Message Parameters

Name	Type
vlanName	String

VRRP.System.VlanInstNotFound

Description

VLAN lookup failed with the given instance.

Remedy

No remedy is available.

Severity

Error

Message Text

Could not find VLAN with instance `%vlanInstance%`

Message Parameters

Name	Type
vlanInstance	uInt32

VRRP.System.SubSysInitFail

Description

A component upon which VRRP depends did not initialize properly.

Remedy

Check if CLI, CM backend, or VLAN is working properly. If it is, restart the VRRP process or reboot the switch.

Severity

Critical

Message Text

`%subsystemName%` subsystem failed to initialize

Message Parameters

Name	Type
subsystemName	String

VRRP.System.NoIPAddr

Description

When looking for an IP address on the named VLAN, none could be found.

Remedy

No remedy is available.

Severity

Warning

Message Text

Found no IP addresses on VLAN `%vlanName%` `%message%`

Message Parameters

Name	Type
vlanName	String
message	Printf

VRRP.System.VLANDBInv

Description

This indicates inconsistent state in the local VLAN database.

Remedy

No remedy is available.

Severity

Error

Message Text

Local copy of VLAN `%vlanName%` is missing data!

Message Parameters

Name	Type
vlanName	String

VRRP.System.VLANRegFail

Description

VLAN manager client API failed.

Remedy

No remedy is available.

Severity

Warning

Message Text

Failed to register VRRP on VLAN `%vlanName%`

Message Parameters

Name	Type
vlanName	String

VRRP.System.VLANUnregFail

Description

VLAN manager client API failed.

Remedy

No remedy is available.

Severity

Warning

Message Text

Failed to deregister VRRP on VLAN `%vlanName%`

Message Parameters

Name	Type
vlanName	String

VRRP.System.ESRPConflict

Description

VRRP and ESRP are mutuallly exclusive on a VLAN

Remedy

No remedy is available.

Severity

Warning

Message Text

Cannot enable VRRP on VLAN `%vlanName%` because ESRP is enabled on that VLAN.

Message Parameters

Name	Type
vlanName	String

VRRP.System.SyscallFail

Description

desc is a brief description of what was being attempted or the result of the failure on VRRP.

Remedy

Check the errno to determine the specific causes.

Severity

Critical

Message Text

System call `%syscall%`() failed: `%errnoMsg%`. `%desc%`

Message Parameters

Name	Type
syscall	String
errnoMsg	String
desc	String

VRRP.System.CallbackFail

Description

Used when a callback either fails or is made with incorrect data.

Remedy

No remedy is available.

Severity

Error

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf

VRRP.System.LibCallFail

Description

A call to an EXOS library or client has failed.

Remedy

Disable and reconfigure the VRRP instance or tracking configuration.

Severity

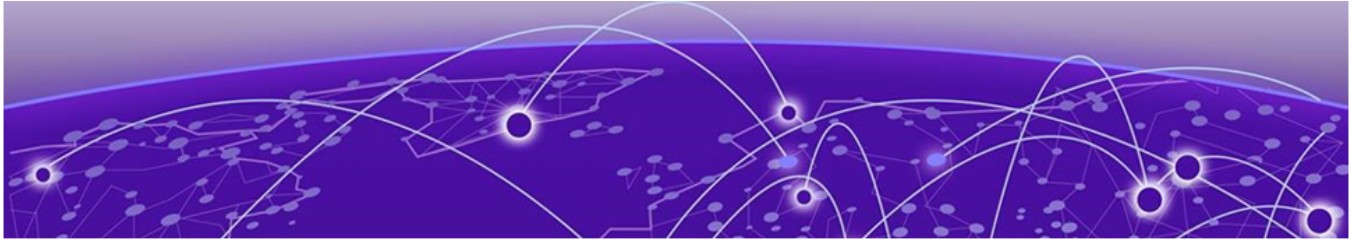
Warning

Message Text

```
%message%
```

Message Parameters

Name	Type
message	Printf



VSM Messages

VSM.ParmNull on page 5233
VSM.ParmInv on page 5234
VSM.AllocMemFail on page 5234
VSM.AllocHCMsgFail on page 5235
VSM.AllocCkptMsgFail on page 5235
VSM.AllocMSMCkptMsgFail on page 5236
VSM.AllocSockFail on page 5237
VSM.SetSockFail on page 5237
VSM.BndSockFail on page 5238
VSM.RxCkptPktVerInv on page 5239
VSM.RxHCPktVerInv on page 5239
VSM.RxCkptPktInv on page 5240
VSM.RxHCPktInv on page 5241
VSM.InitSrvrFail on page 5241
VSM.TxCkptSockFail on page 5242
VSM.RxCkptSockFail on page 5243
VSM.TxHCSockFail on page 5243
VSM.RxHCSockFail on page 5244
VSM.FndISCIfFail on page 5245
VSM.FndMLAGPortFail on page 5245
VSM.RmtMLAGPeerDown on page 5246
VSM.RmtMLAGPortDown on page 5246
VSM.LocMLAGPortDown on page 5247
VSM.RmtMLAGPeerUp on page 5248
VSM.RmtMLAGPortUp on page 5248
VSM.LocMLAGPortUp on page 5249
VSM.RxHCPkt on page 5249
VSM.RxHCPktDump on page 5250
VSM.RxCkptPkt on page 5251
VSM.RxCkptPktDump on page 5252
VSM.TxHCPkt on page 5252
VSM.TxHCPktDump on page 5253
VSM.TxCkptPkt on page 5254
VSM.TxCkptPktDump on page 5254

VSM.BlkMLAGTrace on page 5255
VSM.RedirMLAGTrace on page 5256
VSM.RxCkptTrace on page 5256
VSM.TxCkptTrace on page 5257
VSM.ConnCkptTrace on page 5257
VSM.RxHCTrace on page 5258
VSM.TxHCTrace on page 5258
VSM.TxSrvrTrace on page 5259
VSM.RxSrvrTrace on page 5260
VSM.InitSrvrDone on page 5260
VSM.MSMCkptTrace on page 5261
VSM.FastCnvrgCtrlMLAGFail on page 5261
VSM.RmtMLAGAltPathDown on page 5262
VSM.RmtMLAGAltPathUp on page 5263
VSM.FndMLAGPortFmVLANFail on page 5263
VSM.RxOOBHCPktDump on page 5264

VSM.ParmNull

Description

An internal function was called with a NULL pointer. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on MLAG peer and group configuration. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Argument `%arg%` is NULL

Message Parameters

Name	Type
arg	String

VSM.ParmInv

Description

An internal function was called with an invalid value. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on MLAG peer and group configuration. Also, check the scalability limit and compare this with the current configuration.

Severity

Critical

Message Text

Argument `%arg%` has an invalid value `%val%`

Message Parameters

Name	Type
arg	String
val	uInt32

VSM.AllocMemFail

Description

Memory for the displayed object could not be allocated which may be due to the system running low on memory. This will result in incorrect operation of the MLAG feature.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Memory allocation failed when trying to allocate a `%obj%` structure of size `%size%`.

Message Parameters

Name	Type
obj	String
size	uInt32

VSM.AllocHCMsgFail

Description

Memory for an ISC peer health check message could not be allocated because the system is low on memory. This will result in the MLAG peer node incorrectly declaring this node as down and block traffic on the ISC intended to MLAG ports.

Remedy

Reducing the system configuration may help reclaim memory.

Severity

Error

Message Text

Failed to allocate health check message buffer of `%size%` bytes

Message Parameters

Name	Type
size	uInt32

VSM.AllocCkptMsgFail

Description

Memory for an ISC peer checkpointing message could not be allocated because the system is low on memory. This will result in MLAG related databases being out-of-sync with those on the MLAG peer. This will result in incorrect operation of the MLAG feature.

Remedy

Check the scalability limit and compare this with the current configurations.Reducing the system configuration may help reclaim memory. In addition it is recommended that one of the peer MLAG group ports be disabled so that the remote end of the MLAG group does not receive duplicate traffic.

Severity

Error

Message Text

Failed to allocate checkpoint message of `%size%` bytes for `%type%`

Message Parameters

Name	Type
size	uInt32
type	String

VSM.AllocMSMCkptMsgFail

Description

Memory for a MSM checkpointing message could not be allocated because the system is low on memory. This will result in MLAG related databases being out-of-sync with those on the standby MSM. This will result in incorrect operation of the MLAG feature after an MSM failover.

Remedy

Check the scalability limit and compare this with the current configurations. Reducing the system configuration may help reclaim memory. Once sufficient system memory is reclaimed, it is recommended that all MLAG configuration be removed and reconfigured in order for MSMs to be fully in sync.

Severity

Error

Message Text

Failed to allocate checkpoint message of `%size%` bytes for `%action%`

Message Parameters

Name	Type
size	uInt32
action	String

VSM.AllocSockFail

Description

VSM failed to open a socket to talk to peer switches. Socket allocation failures imply no or partial control information exchange between MLAG peers which results in incorrect operation of the MLAG feature. Users may see either duplication or loss of traffic to the remote end of MLAG links

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Failed to create socket error: `%errormsg%` (`%err%`)

Message Parameters

Name	Type
errormsg	String
err	sInt32

VSM.SetSockFail

Description

VSM failed to set an option on the socket used to communicate to a MLAG peer.Failure to set correct socket options will result in no or incorrect packets sent to the peer MLAG switch and will result in incorrect working of the MLAG feature

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Failed to set socket `%option%` error: `%errormsg%`(`%err%`)

Message Parameters

Name	Type
option	String
errormsg	String
err	sInt32

VSM.BndSockFail

Description

VSM failed to bind a socket to a well-known port. When a socket bind fails, VSM will not be able to receive health-check and checkpointing messsages from the peer and will result in incorrect operation of the MLAG feature.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

Failed to bind socket error: `%errormsg%`(`%err%`)

Message Parameters

Name	Type
errormsg	String
err	sInt32

VSM.RxCkptPktVerInv

Description

A checkpointing message whose type is displayed was received from an MLAG peer with an unsupported version number. This may be a symptom of EXOS version incompatibility between the MLAG peer switches.

Remedy

Ensure the EXOS versions on the MLAG peers are compatible. One of the MLAG may require an upgrade to a more recent version of EXOS.

Severity

Error

Message Text

Peer `%vrid%:%peer%`:: Invalid version `%ver%` in Rx checkpoint message of Type `%type%`

Message Parameters

Name	Type
ver	uInt16
type	uInt16
vrid	VRID
peer	String

VSM.RxHCPktVerInv

Description

A ISC Health-check packet was received from an MLAG peer switch with an unsupported version number. This may be a symptom of EXOS version incompatibility between the MLAG peer switches.

Remedy

Ensure the EXOS versions on the MLAG peers are compatible. One of the MLAG may require an upgrade to a more recent version of EXOS.

Severity

Error

Message Text

Peer `%vrid%:%peer%`:: Invalid version `%ver%` in Health-Check message

Message Parameters

Name	Type
ver	uInt16
vrid	VRID
peer	String

VSM.RxCkptPktInv

Description

This event gets logged when an invalid checkpoint packet is received from a MLAG peer. This could be a symptom of a non-Extreme device trying to spoof a checkpointing message or a software bug.

Remedy

Ensure that no other devices other than Extreme switches are connected to the ISC VLAN. If the issue persists escalate to engineering

Severity

Error

Message Text

Peer `%vrid%:%peer%`:: Checkpointing message field `%field%` has invalid value `%val%`

Message Parameters

Name	Type
vrid	VRID
peer	String
field	String
val	uInt32

VSM.RxHCPktInv

Description

This event gets logged when an invalid health-check packet is received from a MLAG peer. This could be a symptom of a non-Extreme device trying to spoof a health-check message or a software timing bug.

Remedy

Ensure that no other devices other than Extreme switches are connected to the ISC VLAN. If the issue persists escalate to engineering.

Severity

Error

Message Text

Peer `%vrid%:%peer%`:: Health-check message field `%field%` has invalid value `%val%`

Message Parameters

Name	Type
vrid	VRID
peer	String
field	String
val	uInt32

VSM.InitSrvrFail

Description

Failed to start the VSM server. This is not expected and is indicative of a serious problem.

Remedy

On dual-MSM systems try failing over to the backup MSM. Stackables or single MSM systems may require a reboot to correct the problem. If the issue persists, please escalate to engineering.

Severity

Error

Message Text

VSM Server failed to start

VSM.TxCkptSockFail

Description

Transmit of a checkpoint message to the displayed peer has failed. Partial checkpoint information exchange between MLAG peers results in incorrect operation of the MLAG feature. Users may see either duplication or loss of traffic to the remote end of MLAG links.

Remedy

This situation will usually correct itself as the checkpointing channel to the peer will be closed and re-opened at both ends. However, if the issue persists, please check if the ISC link is flapping. Else escalate to engineering.

Severity

Warning

Message Text

Peer `%vrid%:%peer%`: Checkpoint send failed with: `%errormsg%`

Message Parameters

Name	Type
vrid	VRID
peer	String
errormsg	String

VSM.RxCkptSockFail

Description

Receive of a checkpoint message to the displayed peer has failed. Partial checkpoint information exchange between MLAG peers results in incorrect operation of the MLAG feature. Users may see either duplication or loss of traffic to the remote end of MLAG links.

Remedy

This situation will usually correct itself as the checkpointing channel to the peer will be closed and re-opened at both ends. However, if the issue persists, please check if the ISC link is flapping. Else escalate to engineering.

Severity

Warning

Message Text

Peer `%vrid%`:`%peer%`:: Checkpoint receive failed with: `%errormsg%`

Message Parameters

Name	Type
vrid	VRID
peer	String
errormsg	String

VSM.TxHCSockFail

Description

Transmit of a health-check message to the displayed peer has failed. Failing to send multiple health-check messages results in the MLAG peer switch falsely declaring this node to be down causing it to block traffic from the ISC port to the MLAG ports. This leads to loss of traffic to the remote end of MLAG links when the local MLAG port on this switch fails.

Remedy

If this condition is transient, this situation will usually correct itself once MLAG health check packets are successfully sent out. However, if the issue persists, please check if the ISC link is flapping. Else escalate to engineering.

Severity

Warning

Message Text

Peer `%vrid%:%peer%`:: Health-check send failed with: `%errormsg%`

Message Parameters

Name	Type
vrid	VRID
peer	String
errormsg	String

VSM.RxHCSockFail

Description

Receive of a health-check message has failed. Failing to recieve multiple health-check messages results in this node falsely declaring MLAG peers to be down causing it to block traffic from the ISC port to the MLAG ports. This leads to loss of traffic to the remote end of MLAG links when the remote MLAG port on peer switch fails.

Remedy

If this condition is transient, this situation will usually correct itself once MLAG health check packets are successfully received. However, if the issue persists, please check if the ISC link is flapping. Else escalate to engineering.

Severity

Warning

Message Text

Health-check receive failed with: `%errormsg%`

Message Parameters

Name	Type
errormsg	String

VSM.FndISCIfFail

Description

VSM is not able to find the interface associated with the ISC VLAN. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on MLAG peer and VLAN configuration.

Severity

Warning

Message Text

Failed to find interface for instance `%inst%`

Message Parameters

Name	Type
inst	uInt32

VSM.FndMLAGPortFail

Description

VSM is not able to find the interface associated with the MLAG port. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

Provide technical support information on MLAG peer and group configuration.

Severity

Warning

Message Text

Failed to find the interface associated with the instance `%inst%`

Message Parameters

Name	Type
inst	uInt32

VSM.RmtMLAGPeerDown

Description

VSM has declared the MLAG peer to be down due to non-reception of multiple health-check messages. This condition is can happen if the peer MLAG switch is rebooted or the ISC link goes down.

Remedy

Please check the state of the MLAG peer and/or the ISC link connectivity using a diagnostic tool like ping.

Severity

Notice

Message Text

Peer `%vrid%:%peer%`: Peer is down

Message Parameters

Name	Type
peer	String
vrid	VRID

VSM.RmtMLAGPortDown

Description

The displayed MLAG peer has indicated that its local MLAG port for the displayed MLAG identifier is down.

Remedy

Please check the state of the local port MLAG on the MLAG peer.

Severity

Info

Message Text

Peer `%vrid%:%peer%`:: Remote port of MLAG identifier `%id%` is down

Message Parameters

Name	Type
vrid	VRID
peer	String
id	uInt32

VSM.LocMLAGPortDown

Description

The local MLAG port for the displayed MLAG identifier is down.

Remedy

Please check the state of the local port MLAG.

Severity

Info

Message Text

Local port `%slot%:%port%` of MLAG identifier `%id%` is down

Message Parameters

Name	Type
slot	ingressSlot
port	ingressPort
id	uInt32

VSM.RmtMLAGPeerUp

Description

VSM has declared the MLAG peer to be up due to reception of health-check messages.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Peer `%vrid%:%peer%`: Peer is active

Message Parameters

Name	Type
peer	String
vrid	VRID

VSM.RmtMLAGPortUp

Description

The displayed MLAG peer has indicated that its local MLAG port for the displayed MLAG identifier is up.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Peer `%vrid%:%peer%`: Remote port of MLAG identifier `%id%` is up

Message Parameters

Name	Type
vrid	VRID
peer	String
id	uInt32

VSM.LocMLAGPortUp

Description

The local MLAG port for the displayed MLAG identifier is up.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

Local port `%slot%:%port%` of MLAG identifier `%id%` is up

Message Parameters

Name	Type
slot	ingressSlot
port	ingressPort
id	uInt32

VSM.RxHCPkt

Description

When this event is enabled, information about every VSM Health check packet received from every MLAG peer gets logged. Caution: Enabling this causes severe degradation in performance

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Peer `%vrid%:%peer%`:: Received a Health check packet of size `%size%` bytes on Port `%slot%:%port%`

Message Parameters

Name	Type
vrid	VRID
peer	String
size	uInt16
slot	ingressSlot
port	ingressPort

VSM.RxHCPktDump

Description

When this event is enabled, the entire content of every VSM Health check packet received from every MLAG peer gets dumped. Caution: Enabling this causes severe degradation in performance.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Peer `%vrid%:%peer%`:: Received a Health check packet on Port `%slot%:%port%` Buffer: `%pktBuf%`

Message Parameters

Name	Type
vrid	VRID
peer	String

Name	Type
slot	ingressSlot
port	ingressPort
pktBuf	Buf-ptr
bufLen	Buf-len

VSM.RxCkptPkt

Description

When this event is enabled, information about every VSM checkpoint packet received from every MLAG peer gets logged. Caution: Enabling this causes severe degradation in performance.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Peer `%vrid%`:`%peer%`:: Received a checkpoint packet of type `%type%` size `%size%` bytes and role `%role%`

Message Parameters

Name	Type
vrid	VRID
peer	String
type	uInt16
size	uInt16
role	uInt16

VSM.RxCkptPktDump

Description

When this event is enabled, the entire content of every VSM MLAG status checkpoint packet received from every MLAG peer gets dumped. Caution: Enabling this causes severe degradation in performance.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Peer `%vrid%`:`%peer%`:: Received a checkpoint packet of type `%type%` size `%size%` bytes and role `%role%` Buffer: `%pktBuf%`

Message Parameters

Name	Type
vrid	VRID
peer	String
type	uInt16
size	uInt16
role	uInt16
pktBuf	Buf-ptr
bufLen	Buf-len

VSM.TxHCPkt

Description

When this event is enabled, information about every VSM Health check packet sent to every MLAG peer gets logged. Caution: Enabling this causes severe degradation in performance

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Peer `%vrid%:%peer%`:: Sending a Health check packet of size `%size%` bytes

Message Parameters

Name	Type
vrid	VRID
peer	String
size	uInt16

VSM.TxHCPktDump

Description

When this event is enabled, the entire content of every VSM Health check packet sent to every MLAG peer gets dumped. Caution: Enabling this causes severe degradation in performance.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Peer `%vrid%:%peer%`:: Sending a Health check packet of size `%size%` bytes Buffer: `%pktBuf%`

Message Parameters

Name	Type
vrid	VRID
peer	String
size	uInt16

Name	Type
pktBuf	Buf-ptr
bufLen	Buf-len

VSM.TxCkptPkt

Description

When this event is enabled, information about every VSM checkpoint packet sent to every MLAG peer gets logged. Caution: Enabling this causes severe degradation in performance.

Remedy

No action required - Informational message only.

Severity

Debug-Verbose

Message Text

Peer `%vrid%`:`%peer%`:: Received a checkpoint packet of type `%type%` size `%size%` bytes and role `%role%`

Message Parameters

Name	Type
vrid	VRID
peer	String
type	uInt16
size	uInt16
role	uInt16

VSM.TxCkptPktDump

Description

When this event is enabled, the entire content of every VSM MLAG status checkpoint packet sent to every MLAG peer gets dumped. Caution: Enabling this causes severe degradation in performance.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Peer `%vrid%:%peer%`:: Received a checkpoint packet of type `%type%` size `%size%` bytes and role `%role%` Buffer: `%pktBuf%`

Message Parameters

Name	Type
vrid	VRID
peer	String
type	uInt16
size	uInt16
role	uInt16
pktBuf	Buf-ptr
bufLen	Buf-len

VSM.BlkMLAGTrace

Description

This message is used for debugging problems related to ISC to MLAG blocking. This is normal and does not indicate a problem

Remedy

No action required - Informational message intended to help debug problems that may involve ISC-MLAG blocking

Severity

Debug-Verbose

Message Text

`%format%`

Message Parameters

Name	Type
format	Printf

VSM.RedirMLAGTrace

Description

This message is used for debugging problems related to MLAG to ISC redirect. This is normal and does not indicate a problem

Remedy

No action required - Informational message intended to help debug problems that may involve MLAG-ISC redirect

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VSM.RxCkptTrace

Description

This message is used for debugging problems related to ISC checkpoint receive. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve ISC checkpoint receive

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VSM.TxCkptTrace

Description

This message is used for debugging problems related to ISC checkpoint send. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve ISC checkpoint send

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VSM.ConnCkptTrace

Description

This message is used for debugging problems related to ISC checkpoint connectivity. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve ISC checkpoint connectivity

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VSM.RxHCTrace

Description

This message is used for debugging problems related to ISC health-check receive. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve ISC health-check receive

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VSM.TxHCTrace

Description

This message is used for debugging problems related to ISC health-check send. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve ISC health-check send

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VSM.TxSrvrTrace

Description

This message is used for debugging problems related to VSM Server send. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve VSM Server send

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VSM.RxSrvrTrace

Description

This message is used for debugging problems related to VSM Server receive. This is normal and does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve VSM Server receive.

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VSM.InitSrvrDone

Description

This message is used for debugging problems related to VSM Server.

Remedy

No action required - Informational message only.

Severity

Info

Message Text

VSM server initialized successfully

VSM.MSMCkptTrace

Description

This message is for debugging problems related to active-standby MSM checkpointing for the VSM module. This does not indicate a problem.

Remedy

No action required - Informational message intended to help debug problems that may involve active-standby MSM checkpointing

Severity

Debug-Verbose

Message Text

```
%format%
```

Message Parameters

Name	Type
format	Printf

VSM.FastCnvrgCtrlMLAGFail

Description

Switching traffic from an MLAG port to the ISC in fast convergence-control mode has failed. This condition can happen when access-lists are not available for redirecting traffic to the ISC. Due to this failure, the MLAG has been dynamically changed to conserve-access-lists convergence-control mode to properly handle traffic failover. Conserve-access-lists convergence-control mode may result in slower traffic convergence in failure scenarios. Fast convergence-control remains configured and will be used for the next failure.

Remedy

Reducing the number of configured access-lists will allow the system to use fast convergence-control mode the next time an MLAG port fails. When fast convergence-control is configured users should ensure that there are atleast as many free access-lists as the number of MLAG ports that can simultaneously fail.

Severity

Warning

Message Text

Fast convergence-control for MLAG id `%id%` has failed

Message Parameters

Name	Type
id	uInt16

VSM.RmtMLAGAltPathDown

Description

This can happen when either alternate path or remote peer is down or the ISC link has come up.

Remedy

Please check the state of the MLAG peer and/or the ISC link connectivity using a diagnostic tool like ping.

Severity

Notice

Message Text

Peer `%vrid%`:`%peer%`:: Path is down

Message Parameters

Name	Type
peer	String
vrid	VRID

VSM.RmtMLAGAltPathUp

Description

VSM has declared the alternate path to the MLAG peer to be up since the ISC link has gone down.

Remedy

No action required - Informational message only.

Severity

Notice

Message Text

Peer `%vrid%:%peer%`:: Path is up

Message Parameters

Name	Type
peer	String
vrid	VRID

VSM.FndMLAGPortFmVLANFail

Description

VSM is unable to find the MLAG port associated with the ISC VLAN. This condition is not expected and is indicative of a possible memory corruption due to a software bug that needs engineering attention.

Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: "show vlan detail", "show mlag peer", "show mlag ports", "debug show mlag peer" and "debug show mlag ports".

Severity

Error

Message Text

Failed to find the MLAG port associated with the ISC VLAN `%vlan%`

Message Parameters

Name	Type
vlan	VLAN

VSM.RxOOBHCPktDump

Description

When this event is enabled, the entire content of every VSM Health check packet received out of band from every MLAG peer gets dumped. Caution: Enabling this causes severe degradation in performance.

Remedy

No action required - Informational message only.

Severity

Debug-Data

Message Text

Peer `%vrid%`:`%peer%`:: Received an out of band health check packet. Buffer: `%pktBuf%` buffer length: `%bufLen%`.

Message Parameters

Name	Type
vrid	VRID
peer	String
pktBuf	Buf-ptr
bufLen	Buf-len