



# ExtremeXOS 16.2 EMS Message Catalog



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# 1 Introduction

Text Conventions  
Related Publications  
Providing Feedback to Us  
Getting Help

Welcome to the *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 decode the message, search the guide for the text inside the brackets (< >).

## Text Conventions

The following tables list text conventions that are used throughout this guide.

**Table 1: Notice Icons**

Icon	Notice Type	Alerts you to...
	General Notice	Helpful tips and notices for using the product.
	Note	Important features or instructions.
	Caution	Risk of personal injury, system damage, or loss of data.
	Warning	Risk of severe personal injury.
	New	This command or section is new for this release.

**Table 2: Text Conventions**

Convention	Description
Screen displays	This typeface indicates command syntax, or represents information as it appears on the screen.
The words <b>enter</b> and <b>type</b>	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.”
<b>[Key]</b> names	Key names are written with brackets, such as <b>[Return]</b> or <b>[Esc]</b> . If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press <b>[Ctrl]+[Alt]+[Del]</b>
<i>Words in italicized type</i>	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.

## Related Publications

### ExtremeXOS Publications

- [ACL Solutions Guide](#)
- 
- 
- 
- 
- [ExtremeXOS OpenFlow User Guide](#)
- [ExtremeXOS Quick Guide](#)
- [ExtremeXOS Legacy CLI Quick Reference Guide](#)
- [ExtremeXOS Release Notes](#)
- [Extreme Hardware/Software Compatibility and Recommendation Matrices](#)
- 
- [Using AVB with Extreme Switches](#)

### Open Source Declarations

Some software files have been licensed under certain open source licenses. More information is available at: [www.extremenetworks.com/support/policies/software-licensing](http://www.extremenetworks.com/support/policies/software-licensing)

## Providing Feedback to Us

We are always striving to improve our documentation and help you work better, so we want to hear from you! We welcome all feedback but especially want to know about:

- Content errors or confusing or conflicting information.
- Ideas for improvements to our documentation so you can find the information you need faster.
- Broken links or usability issues.

If you would like to provide feedback to the Extreme Networks Information Development team about this document, please contact us using our short [online feedback form](#). You can also email us directly at [internalinfodev@extremenetworks.com](mailto:internalinfodev@extremenetworks.com).

## Getting Help

---

If you require assistance, contact Extreme Networks using one of the following methods:

- **Global Technical Assistance Center (GTAC) for Immediate Support**
  - **Phone:** 1-800-998-2408 (toll-free in U.S. and Canada) or +1 408-579-2826. For the support phone number in your country, visit: [www.extremenetworks.com/support/contact](http://www.extremenetworks.com/support/contact)
  - **Email:** [support@extremenetworks.com](mailto:support@extremenetworks.com). To expedite your message, enter the product name or model number in the subject line.
- **GTAC Knowledge** — Get on-demand and tested resolutions from the GTAC Knowledgebase, or create a help case if you need more guidance.
- **The Hub** — A forum for Extreme customers to connect with one another, get questions answered, share ideas and feedback, and get problems solved. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.
- **Support Portal** — Manage cases, downloads, service contracts, product licensing, and training and certifications.

Before contacting Extreme Networks for technical support, have the following information ready:

- Your Extreme Networks service contract number and/or serial numbers for all involved Extreme Networks products
- A description of the failure
- A description of any action(s) 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 Return Material Authorization (RMA) numbers

# 2 AAA Messages

---

AAA.localAuthen  
AAA.usingRadius  
AAA.usingTacacs  
AAA.usingLocal  
AAA.reqFromPeer  
AAA.sessions  
AAA.InitVlanLibFail  
AAA.UnInitRAutSvVr  
AAA.UnInitRAccSvVr  
AAA.InitRAccSvVr  
AAA.InitRAutSvVr  
AAA.authPass  
AAA.authFail  
AAA.logout  
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AAA.createAccount  
AAA.changePass  
AAA.deleteAccount  
AAA.accountMod  
AAA.accountLockedOut  
AAA.Trace  
AAA.LogSsh  
AAA.LogSshDebug  
AAA.DecryptMaxStrSizExcd  
AAA.CreateEncryptAcCnt

## 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

Initialize 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 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

User %name% logout from %source%

## Message Parameters

Name	Type
name	AccountName
source	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	String
modType	String
user	String

---

## 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	String

---

## 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.CreateEncryptAcct

### 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

# 3 AAA.RADIUS Messages

AAA.RADIUS.sendFailure  
AAA.RADIUS.reponseTypeErr  
AAA.RADIUS.pktIdAllConsumd  
AAA.RADIUS.BadAuthen  
AAA.RADIUS.sendSuccess  
AAA.RADIUS.vsaAttrMismatch  
AAA.RADIUS.vsaUnknownVend  
AAA.RADIUS.unknownExtrVsa  
AAA.RADIUS.sendCommand  
AAA.RADIUS.PktReadWrite  
AAA.RADIUS.PktAuthEn  
AAA.RADIUS.PktNetLoginVlan  
AAA.RADIUS.PktNetLoginUrl  
AAA.RADIUS.PktNetLoginUrlD  
AAA.RADIUS.PktNetLoginOnly  
AAA.RADIUS.socketFailure  
AAA.RADIUS.bindFailure  
AAA.RADIUS.PktAttrType  
AAA.RADIUS.PktCliCommand  
AAA.RADIUS.RadiusEnable  
AAA.RADIUS.RadiusAccEnable  
AAA.RADIUS.serverFailInit  
AAA.RADIUS.threadCreError  
AAA.RADIUS.noServerResp  
AAA.RADIUS.RadiusDisable  
AAA.RADIUS.serverNotInit  
AAA.RADIUS.resendServAdmin  
AAA.RADIUS.goLocal  
AAA.RADIUS.noServResp  
AAA.RADIUS.bindFailVr  
AAA.RADIUS.PktNetLoginVlanTag  
AAA.RADIUS.PktAddAttrType  
AAA.RADIUS.LocalNLAuth  
AAA.RADIUS.Trace  
AAA.RADIUS.SecurityProfile  
AAA.RADIUS.noRespForDot1xReq  
AAA.RADIUS.PktNetLoginExtVlan

```

AAA.RADIUS.QueueFull
AAA.RADIUS.nIExtVlanVSAIgnoreVlans
AAA.RADIUS.InvalidTlv
AAA.RADIUS.VMName
AAA.RADIUS.VMVppName
AAA.RADIUS.VMVlanTag
AAA.RADIUS.VMIpAddr
AAA.RADIUS.VMvrName
AAA.RADIUS.PktLenInv
AAA.RADIUS.RecvPktInv
AAA.RADIUS.ApiReq
AAA.RADIUS.RecvRspns
AAA.RADIUS.SrvrReqTmout
AAA.RADIUS.NameLenInv
AAA.RADIUS.SrvrRtrnAccessVal

```

## 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%') on port %port%

### Message Parameters

Name	Type
serverType	String
serverId	String

Name	Type
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 UDP port 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 UDP port %udpPort%, 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
udpPort	srcL4port
pktId	uint8
serverId	String
user	AccountName
userName	AccountName
agent	String
port	SlotPort

## 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.PktNetLoginUrID

---

### Description

Received URL Descriptions VSA from server.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

ParsePkt: NetloginUrIDesc %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-Summary

### 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 Administrative User on the Merit server, so we resend the authentication request with the service type set to a Administrative 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.LocalINLAuth

## 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.nExtVlanVSAIgnoreVlans

### 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: %t1vName% 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 UDP port 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

Received an %rspType% (packet length %pktLength%, destination UDP port %udpPort%, id %pktId%) from %serverType% server #%serverId% for %user%(username '%userName%') on port %port%.

## Message Parameters

Name	Type
rspType	String
pktLength	uint32
udpPort	dstL4port
pktId	uint8
serverType	String
serverId	String
user	AccountName
userName	AccountName
port	SlotPort

## AAA.RADIUS.SvrReqTmout

### Description

The RADIUS software is no longer waiting for the most recent request sent to the ("authentication" or "accounting") 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

Name	Type
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) and Idle Timeout (idle timeout value in seconds). 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%.

## Message Parameters

Name	Type
user	AccountName
userName	AccountName
port	SlotPort
accessLevel	String
tunnelType	String
tunnelMedium	String
tunnelGroupId	uint32
sessionTimeout	uint32
idleTimeout	uint32

# 4 AAA.TACACS Messages

---

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AAA.TACACS.goLocal  
AAA.TACACS.Trace  
AAA.TACACS.authReqSent  
AAA.TACACS.authReqResponse

## 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	IP
error	slnt

## 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

Check TACACS+ configuration.

### Severity

Debug-Summary

### Message Text

tacp\_send\_authen\_req: Unable to connect to host %host%

### Message Parameters

Name	Type
host	IP

## 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

None. 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	slnt

## 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	ulnt

## 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 system 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 system 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	IP

## 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

None. Used for debugging.

### Severity

Debug-Summary

### Message Text

Accounting 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	slnt

---

## 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 compatibility 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	IP

## 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	IP

## AAA.TACACS.authReqResponse

### Description

Received an authentication 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% authentication for %user% %result%.

### Message Parameters

Name	Type
user	AccountName
from_server	IP
result	String

# 5 ACL Messages

---

```
ACL.DebugSummary
ACL.BndNetZonePlcy
ACL.AddNetZoneAttr
ACL.DelNetZoneAttr
ACL.AddNetZonePlcyAttr
ACL.DelNetZonePlcyAttr
ACL.UnbndNetZonePlcy
ACL.ChkPlcyForAppFail
ACL.CfgDynACL
ACL.UncfgDynACL
ACL.RecvCfgReq
ACL.RecvUncfgReq
ACL.RecvRspns
ACL.AddReqToPendQue
ACL.RemReqFmPendQue
ACL.SendCIntRspns
ACL.IngrMeterOutActLogEvent
ACL.IngrMeterOutActDsblPort
ACL.EgrMeterOutActLogEvent
ACL.EgrMeterOutActDsblPort
```

## 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.DeINetZonePlcyAttr

---

### 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 %appName% failed. Policy has %attrName%.

## Message Parameters

Name	Type
policyName	String
appName	String
attrName	String

## ACL.CfgDynACL

### Description

The specified dynamic rule from CLI or from a client (like fdb, identity manager, xnv, openflow, 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, openflow, 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
portNum	SlotPort

Name	Type
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
vlanIfInst	uInt32
direction	uInt8

## ACL.SendCIntRspns

### 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, openflow, 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



Name	Type
vlanInst	String
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.EgrMeterOutActDsbIPort

### 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 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

# 6 ACL.CLEARFlow Messages

ACL.CLEARFlow.Critical  
ACL.CLEARFlow.Error  
ACL.CLEARFlow.Warning  
ACL.CLEARFlow.Notice  
ACL.CLEARFlow.Info  
ACL.CLEARFlow.DebugSummary

## 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

# 7 ACL.Policy Messages

---

ACL.Policy.bind  
ACL.Policy.unBind  
ACL.Policy.refresh  
ACL.Policy.Change  
ACL.Policy.smartRef  
ACL.Policy.hardRefresh  
ACL.Policy.TotChanges  
ACL.Policy.refClearFlowOnly  
ACL.Policy.testDiff  
ACL.Policy.AddDynAcl  
ACL.Policy.IntAppConfFail  
ACL.Policy.ChangePrtyFail  
ACL.Policy.XmlConfFail  
ACL.Policy.InvalidDomain  
ACL.Policy.UnCondPmtCanCauseLoop  
ACL.Policy.RfrshFail  
ACL.Policy.SendCfgReq  
ACL.Policy.RecvRfrshRspns

## 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 changes 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 applicaiton %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

Name	Type
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 priority. 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

# 8 BFD Messages

---

BFD.InitDone  
BFD.AllocSockFail  
BFD.SetSockFail  
BFD.BndSockFail  
BFD.CreatThreadFail  
BFD.RxPkt  
BFD.RxPktDump  
BFD.RxPktFail  
BFD.RxPktInv  
BFD.RxPktAuthFail  
BFD.TxPkt  
BFD.TxPktDump  
BFD.TxPktFail  
BFD.SessnNotFnd  
BFD.CreatSessn  
BFD.CreatSessnFail  
BFD.DelSessn  
BFD.FndEgrIfFail  
BFD.CreatIfFail  
BFD.FndIngrIfFail  
BFD.StateTransTrace  
BFD.RecvSvrMsg  
BFD.SendSvrMsg  
BFD.InitSvrDone  
BFD.InitSvrFail  
BFD.Error  
BFD.DebugVerbose  
BFD.SessnStateChg

## 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
errmsg	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 socket 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:%errmsg%

## Message Parameters

Name	Type
vlan	VLAN
errmsg	String

## BFD.RxPktAuthFail

### Description

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

### Remedy

There is no remedy 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
vrld	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	slnt
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% errMsg:%errMsg%

## Message Parameters

Name	Type
size	uint
vlan	VLAN
vrid	slnt
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 remedy 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 remedy 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 maximum limit is reached check the limits number given in the Extreme 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 remedy 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 displayed 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 is for debugging problems related to BFD session's Finite State Machine. This is normal and does not indicate a problem.

### Remedy

There is no remedy 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 is for debugging problems related to BFD server message to the clients. This is normal and does not indicate a problem.

## Remedy

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

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

### Remedy

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

### 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 occurred 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 remedy 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

# 9 BFD.Client Messages

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BFD.Client.SvrCnctUp  
BFD.Client.SvrCnctDown  
BFD.Client.CIntReg  
BFD.Client.CIntRegFail  
BFD.Client.CIntUnreg  
BFD.Client.CIntUnregFail  
BFD.Client.SessnCreatReq  
BFD.Client.SessnCreatReqFail  
BFD.Client.SessnCreatOK  
BFD.Client.SessnCreatFail  
BFD.Client.SessnCreatFailMax  
BFD.Client.SessnDelReq  
BFD.Client.SessnDelReqFail  
BFD.Client.SessnDelOK  
BFD.Client.SessnDelFail  
BFD.Client.SessnUpdt  
BFD.Client.SigPathUp  
BFD.Client.SigPathDown  
BFD.Client.ParmNull  
BFD.Client.ClbkInitFail  
BFD.Client.TreeInsFail

## BFD.Client.SvrCnctUp

---

### 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.SvrCnctDown

### 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.ClnReg

### 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.CltRegFail

### 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

Name	Type
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
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

Name	Type
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

# 10 BGP Messages

---

BGP.DebugSummary  
BGP.DebugVerbose  
BGP.DebugData  
BGP.APIFail  
BGP.InitFailRsrcNotStrt  
BGP.APIFailIgn  
BGP.InterThreadMsgError  
BGP.InterThreadMsgCritical  
BGP.TermProc  
BGP.MibStubFlowTrc  
BGP.ProdFlowTrc  
BGP.SckStubFlowTrc  
BGP.Enabled  
BGP.Disabled

## 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

# 11 BGP.DecisnCoord Messages

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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	xInt32

## 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	xInt32

## 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	xInt32
p2	VarFmtByteArray
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	xInt32
p2	VarFmtByteArray
p3	uint8

## BGP.DecisnCoord.SessFSMInRsItInvAct

### 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	xInt32
p2	sInt8

Name	Type
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	xInt32
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	xInt32

## 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	xInt32
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	xInt32
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	xInt32
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	xInt32
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	xInt32
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	xInt32

## 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	xInt32
p2	VarFmtByteArray
p3	uInt16
p4	uInt8
p5	sInt32



Name	Type
p6	sInt
p7	uInt32

## 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	xInt32
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	xInt32
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	xInt32
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	xInt32
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	xInt32
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	xInt32
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	xInt32
p2	VarFmtByteArray
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	xInt32
p2	VarFmtByteArray
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

Name	Type
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	xInt32
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	xInt32

## 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	xInt32
p2	uInt16



Name	Type
p3	uint8
p4	VarFmtByteArray
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	xInt32
p2	uint16
p3	uint8
p4	VarFmtByteArray
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	xInt32
p2	xInt32
p3	xInt32

## BGP.DecisnCoord.NHReqRchEBGPPeerUnrch

### Description

BGP has received an indication that the next hop used by a directly connected EBGP peer is unreachable, and BGP is configured to use fast external fallover. BGP treats the BGP session as failed.

### 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%] NextHop to reach EBGp Peer, index=%p2%, is now unreachable, fast-external-fallover configured

## Message Parameters

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

## BGP.DecisnCoord.PeerRstrtImpprtPlcyChg

### Description

Import policy affecting an Adj-RIB-In has been changed while the "soft reset with stored routing information" behavior is disabled and the peer session does not support sending of route refresh messages. A cease notification will be sent to the peer to immediately restart the session. This will cause a refresh of all the peer routes.

### Remedy

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

## Severity

Warning

## Message Text

[VR %p1%] Import policy has been changed for a peer session which does not support\nroute refresh messages. The session will be restarted.\nNeighbor Index: %p2%\nNeighbor IP address: %p3%\nAFI: %p4%\nSAFI: %p5%

## Message Parameters

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

Name	Type
p10	uint16
p11	uint8

## 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	xInt32
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. \n\nThe phase 3 delay timer is no longer running. \n\nRIB Manager entity index: %p1%

## Message Parameters

Name	Type
p1	xInt32

## BGP.DecisnCoord.IntIpv4NotExpected

### Description

An IPv4 unicast route has been advertised by neighbor. We do not expect this as the IPv4 Unicast AFI/SAFI has been disabled for this neighbor. The update will be ignored.

### Remedy

Check why this peer is configured without IPv4 unicast support when the neighbor sends IPv4 unicast routes.

### Severity

Warning

### Message Text

A neighbor has advertised an IPv4 route which is not expected since \n\nwe have disabled the IPv4 UNI AFI/SAFI for this neighbor. \n\nRIB Manager entity index: %p1% \n\nNeighbor Index: %p2% \n\nNeighbor IP address: %p3% \n\nAFI: %p4% \n\nSAFI: %p5%



## Message Parameters

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

# 12 BGP.PolicyMgr Messages

BGP.PolicyMgr.InitRsrcFail  
BGP.PolicyMgr.DeactivMIBRowFail  
BGP.PolicyMgr.AggrRtMatchCfgAdvrtMap  
BGP.PolicyMgr.CreatRtMapTbIMIBRowFail  
BGP.PolicyMgr.RecvUpdtNonCfdASPathSeg  
BGP.PolicyMgr.FndActvRtMapFail  
BGP.PolicyMgr.ModCfgTbIMIBRowRtMapInv  
BGP.PolicyMgr.ModCfgTbIMIBRowCfgInv  
BGP.PolicyMgr.UseGrpPeerOwnPlcylgn  
BGP.PolicyMgr.DeactivIPFfxMIBRowFail  
BGP.PolicyMgr.PeerGrpDefImpprtPlcy  
BGP.PolicyMgr.NHSelfCfgOvrrd3rdParty  
BGP.PolicyMgr.ExecRglrExprsnFail  
BGP.PolicyMgr.CompileRglrExprsnFail  
BGP.PolicyMgr.RxUpdtEBGPOneHopAwayInv  
BGP.PolicyMgr.RecalcARORsrcFail  
BGP.PolicyMgr.DenyRtByPlcy  
BGP.PolicyMgr.RtNotAdvertNHSameTxPeer  
BGP.PolicyMgr.RxUpdtNLRInv  
BGP.PolicyMgr.RtNotAdvertDstIPSameNH  
BGP.PolicyMgr.CreatAggrTbIMIBRowFail  
BGP.PolicyMgr.RecalcORFRsrcFail  
BGP.PolicyMgr.ORFPfxEntCntnInvVal  
BGP.PolicyMgr.RemAllORFEntNotExist  
BGP.PolicyMgr.RemORFEntNotExist  
BGP.PolicyMgr.ORFCmnPartCntnInvVal  
BGP.PolicyMgr.ChgSoftResetEfctvRstr  
BGP.PolicyMgr.RtNotAggrCntnSNPA  
BGP.PolicyMgr.AggrRtNotAdvertIndvl  
BGP.PolicyMgr.WthdrwAggrRtAdvertIndvl  
BGP.PolicyMgr.CreatRecalcAggrRtFail  
BGP.PolicyMgr.DfltRtOrigInactvNoMatch  
BGP.PolicyMgr.RtNotAggrInactv  
BGP.PolicyMgr.PrvntRtMEDChgFmWrap  
BGP.PolicyMgr.ActvRtMapNotSuprt

## BGP.PolicyMgr.InitRsrcFail

---

### Description

No description is available.

### Remedy

Investigate the memory shortage.

### Severity

Error

### Message Text

DC-BGP Resource failure during Policy Manager initialization.\nVR: %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.PolicyMgr.DeactvMIBRowFail

---

### Description

No description is available.

### Remedy

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

### Severity

Error

### Message Text

DC-BGP Policy Manager MIB row could not be deactivated, as it is\nreferenced by another MIB row, or because a MIB action is pending for a\nMIB table that could reference the row.\nMIB table %p1%\nIndex in the table:\nVR = %p2%\nOther index values: %p3% %p4% %p5% %p6%\nTables 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.AggrRtMatchCfgAdvertMap

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Debug-Summary

### Message Text

DC-BGP Policy Manager will not aggregate a route because it matches the\nconfigured 'advertise' route map.\nVR: %p1%\n<AFI, SAFI>: < %p2% %p3%\nPrefix of aggregate address: %p4%\nLength of aggregate address prefix: %p5%\nPrefix of route which will not be aggregated: %p6%\nLength of route prefix: %p7%

## Message Parameters

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

Name	Type
p6	HexByteArray
p7	uint8

## BGP.PolicyMgr.CreatRtMapTbIMIBRowFail

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Error

### Message Text

DC-BGP Policy Manager could not create a MIB row in the bgpRouteMapTable\nbecause it would mean that a route map which is being used as an \nattribute map for an aggregate route would have more than one row.\nVR: %p1%\nRoute map index: %p2%\nRoute map number: %p3%

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	xInt32

## BGP.PolicyMgr.RecvUpdtNonCfdASPathSeg

### Description

No description is available.

### Remedy

No remedy is available.

## Severity

Warning

## Message Text

An update has been received from a non-confederation peer which \ncontains an AS\_PATH with the first segment of a confederation type. \nVR: %p1%\nPeer BGP ID: %p2%\nPeer remote AS number %p3%\nInitial AS\_PATH segment type %p4%\nInitial AS\_PATH segment length %p5%

## Message Parameters

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

## BGP.PolicyMgr.FndActvRtMapFail

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Warning

### Message Text

PM failed to find an active route map clause with the specified number. \nVR: %p1%\nRoute Map Index: %p2%\nRoute Map Number: %p3%\nContinue Clause: %p4%

### Message Parameters

Name	Type
p1	xInt32
p2	uInt32

Name	Type
p3	uint32
p4	uint32

## BGP.PolicyMgr.ModCfgTbIMIBRowRtMapInv

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Error

### Message Text

DC-BGP Policy Manager could not modify a MIB row in the bgpConfigTable \nbecause to do so would cause the non-exist or advertise map not to \nspecify an exact NLRI match, not be of type PERMIT, or be assigned to too\nmany configs. \nVR: %p1%\nRoute Map Index: %p2%\nRoute Map Number: %p3%

### Message Parameters

Name	Type
p1	xint32
p2	uint32
p3	uint32

## BGP.PolicyMgr.ModCfgTbIMIBRowCfgInv

### Description

No description is available.

### 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

DC-BGP Policy Manager could not modify a MIB row in the bgpConfigTable \nbecause to do so would result in one or both of the non-exist and \nadvertise maps being unspecified. Both must be specified in a valid \nconfiguration. \nVR: %p1%\nConfig Index: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.PolicyMgr.UseGrpPeerOwnPlcylgn

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Error

### Message Text

A peer within a peer group has its own export policy and/or conditional \nadvertisement policy defined. These policies will be ignored. The \nexport and conditional advertisement policies of the peer group will be \nused instead. \nVR: %p1%\nPeer index: %p2%\nPeer's config index: %p3%\nPeer group index: %p4%

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	xInt32
p4	xInt32



## BGP.PolicyMgr.DeactivIPfxMIBRowFail

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Error

### Message Text

DC-BGP Policy Manager could not modify a MIB row in the bgpIpPreTable \nbecause the route-map to which it belongs is an advertise or non-exist \nmap, and has no other active IP prefixes. \nVR: %p1% \nRoute Map Index: %p2% \nRoute Map Number: %p3% \nIP Prefix Number: %p4%

### Message Parameters

Name	Type
p1	xInt32
p2	uInt32
p3	uInt32
p4	uInt32

## BGP.PolicyMgr.PeerGrpDefImprtPlcy

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Error

## Message Text

A config for a peer group has import policy defined. This policy is only \applied to members of the peer group which lack their own import policy. \n\nThe following member has its own import policy. \n\nPeer index: %p1%\nPeer's config index: %p2%\nPeer group index: %p3%\nPeer group's config index: %p4%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	xInt32
p4	xInt32

## BGP.PolicyMgr.NHSelfCfgOvrrd3rdParty

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Warning

## Message Text

next-hop-self configuration overrides third-party next-hop configuration.\nVR: %p1%\nPeer group index: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.PolicyMgr.ExecRglrExprsnFail

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Error

### Message Text

A regular expression failed to execute. This is due to resource failure \n\nThe auto-generated error message follows. \n\nVR: %p1%\n\nString on which regular expression is executing: %p2%\n\nAuto-generated error message: %p3%

### Message Parameters

Name	Type
p1	xInt32
p2	String
p3	String

## BGP.PolicyMgr.CompileRglrExprsnFail

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Warning

## Message Text

A regular expression failed to compile. This could be due to resource \nfailure or a syntax error. The auto-generated error message follows. \nVR: %p1%\nRegular expression string: %p2%\nAuto-generated error message: %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	String
p3	String

## BGP.PolicyMgr.RxUpdtEBGPOneHopAwayInv

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Error

## Message Text

An update has been received from an EBGp peer one IP hop away in which \nthe next hop is not the address of the sender, and the interface \nassociated with the next hop does not share our subnet. \nVR: %p1%\nPeer BGP ID: %p2%\nNext Hop Address: %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	VarFmtByteArray

## BGP.PolicyMgr.RecalcARORsrcFail

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Warning

### Message Text

The AROs could not be recalculated due to a resource failure. \nVR: %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.PolicyMgr.DenyRtByPlcy

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Debug-Summary

### Message Text

DC-BGP Policy Manager filtered out a route.\nVR: %p1%\nPeer index of the peer owning the RIB: %p2%\n\nLocal address connecting to this peer: %p3%\nRemote address of this peer: %p4%\nARI/ARO: %p5%\n\nPrefix of route: %p6%\nLength of route prefix: %p7%

## Message Parameters

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

## BGP.PolicyMgr.RtNotAdvertNHSameTxPeer

### Description

No description is available.

### 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

Warning

### Message Text

A route can not be advertised because its next hop is the same as the \naddress of the peer to which it was being sent.\nVR: %p1%\nNeighbor index: %p2%\nNext Hop Address: %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt32
p3	DecByteArray

## BGP.PolicyMgr.RxUpdtNLRIInv

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Error

### Message Text

An update has been received with invalid NLRI.\nVR: %p1%\nPeer BGP ID: %p2%\nNLRI destination address: %p3%

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	VarFmtByteArray

## BGP.PolicyMgr.RtNotAdvertDstIPSameNH

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Info

## Message Text

The destination address is the same as the next hop that would be advertised. Such a route does not add to the forwarding table of the peer, and so it does not make sense to advertise the route to the peer. \nVR: %p1%\nNeighbor index: %p2%\nNext Hop Address: %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt32
p3	DecByteArray

## BGP.PolicyMgr.CreatAggrTbIMIBRowFail

### Description

No description is available.

### Remedy

Do not pad bgpAggrPrefix with extra zero bytes. Only the number of bytes required by bgpAggrPrefixLength should be used.

### Severity

Error

## Message Text

DC-BGP Policy Manager could not create a MIB row in the bgpAggregateTable because the number of bytes of the prefix does not match the specified prefix length in bits. For example, if bgpAggrPrefixLength is 16 bits then bgpAggrPrefix should be 2 bytes long. \nVR: %p1%\nbgpAggrPrefixLength (bits): %p2%\nLength of bgpAggrPrefix (bytes): %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt32
p3	uInt32



## BGP.PolicyMgr.RecalcORFRsrcFail

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Warning

### Message Text

ORF advertisement lists could not be recalculated due to a resource failure. \nVR: %p1%\nPeer BGP ID: %p2%\n<AFI, SAFI>: < %p3% %p4%

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	uInt16
p4	uInt8

## BGP.PolicyMgr.ORFPfxEntCntnInvVal

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Error

### Message Text

An ORF entry of type Prefix contains an invalid value. \nVR: %p1%\nPeer BGP ID: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.PolicyMgr.RemAllORFEntNotExist

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Warning

### Message Text

A request has been received to REMOVE or REMOVE-ALL an ORF/ORF entry but\nthe specified ORF does not exist.\nVR: %p1%\nPeer BGP ID: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.PolicyMgr.RemORFEntNotExist

### Description

No description is available.

### Remedy

No remedy is available.

## Severity

Warning

## Message Text

A request has been received to REMOVE an ORF entry but the specified\nORF entry does not exist.  
\nVR: %p1%\nPeer BGP ID: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.PolicyMgr.ORFCmnPartCntnInvVal

## Description

No description is available.

## Remedy

No remedy is available.

## Severity

Error

## Message Text

The common part of an ORF entry contains an invalid value.\nVR: %p1%\nPeer BGP ID: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.PolicyMgr.ChgSoftResetEfctvRstrt

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Warning

### Message Text

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

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	xInt32
p4	sInt

## BGP.PolicyMgr.RtNotAggrCntnSNPA

### Description

No description is available.

### Remedy

None.

### Severity

Warning

## Message Text

DC-BGP Policy Manager has not aggregated a route because it contains\nSNPAs.\nVR: %p1%\n<AFI, SAFI>: < %p2% %p3%\nPrefix of aggregate address: %p4%\nLength of aggregate address prefix: %p5%\nPrefix of route which could not be aggregated: %p6%\nLength of route prefix: %p7%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8
p4	HexByteArray
p5	uInt8
p6	HexByteArray
p7	uInt8

## BGP.PolicyMgr.AggrRtNotAdvertIndvl

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Debug-Summary

## Message Text

DC-BGP Policy Manager has aggregated a route and will not advertise the\nroute individually.\nVR: %p1%\n<AFI, SAFI>: < %p2% %p3%\nPrefix of aggregate address: %p4%\nLength of aggregate address prefix: %p5%\nPrefix of route which has been aggregated: %p6%\nLength of route prefix: %p7%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt16

Name	Type
p3	uint8
p4	HexByteArray
p5	uint8
p6	HexByteArray
p7	uint8

## BGP.PolicyMgr.WthdrwAggrRtAdvertIndvl

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Info

### Message Text

DC-BGP Policy Manager has withdrawn an aggregate route, if it exists, \nand is advertising its constituent routes individually because they have \ndiffering MULTI-EXIT-DISC attributes.\nVR: %p1%\n<AFI, SAFI>: < %p2% %p3%\nPrefix of aggregate address: %p4%\nLength of aggregate address prefix: %p5%

### Message Parameters

Name	Type
p1	xInt32
p2	uint16
p3	uint8
p4	HexByteArray
p5	uint8

## BGP.PolicyMgr.CreatRecalcAggrRtFail

### Description

No description is available.

### Remedy

None.

### Severity

Warning

### Message Text

DC-BGP Policy Manager has failed to create or re-calculate an aggregate\nroute.\nVR: %p1%\n<AFI, SAFI>: < %p2% %p3%\nPrefix of aggregate address: %p4%\nLength of aggregate address prefix: %p5%\nPrefix of route which could not be aggregated: %p6%\nLength of route prefix: %p7%

### Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8
p4	HexByteArray
p5	uInt8
p6	HexByteArray
p7	uInt8

## BGP.PolicyMgr.DfltRtOrigInactvNoMatch

### Description

No description is available.

### Remedy

No remedy is available.

## Severity

Info

## Message Text

DC-BGP Policy manager has scanned the Loc-RIB and determined that default\nroute origination has become active/inactive because a matching route\nhas been found/not found.\nVR: %p1%\nNeighbor index: %p2%\n<AFI, SAFI>: < %p3% %p4%\nDefault Originate State: %p5%

## Message Parameters

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

## BGP.PolicyMgr.RtNotAggrInactv

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

DC-BGP Policy Manager has not aggregated a route because it is inactive.\nVR: %p1%\n<AFI, SAFI>: < %p2% %p3%\nPrefix of aggregate address: %p4%\nLength of aggregate address prefix: %p5%\nPrefix of route which could not be aggregated: %p6%\nLength of route prefix: %p7%



## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8
p4	HexByteArray
p5	uInt8
p6	HexByteArray
p7	uInt8

## BGP.PolicyMgr.PrvntRtMEDChgFmWrap

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

DC-BGP Policy Manager has prevented a route MED change from wrapping.\nVR: %p1%\n<AFI, SAFI>:  
< %p2% %p3%\nRoute prefix: %p4%\nLength of route prefix: %p5%\nOriginal route MED: %p6%\n\nIncrement required?: %p7%\nIncrement or decrement amount: %p8%\nUpdated route MED: %p9%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8
p4	HexByteArray
p5	uInt8
p6	xInt32
p7	sInt

Name	Type
p8	xInt32
p9	xInt32

## BGP.PolicyMgr.ActvRtMapNotSuprt

### Description

No description is available.

### 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

DC-BGP Policy Manager has received a request to activate a Route Map\nfor an AFI/SAFI that is not currently supported.\nVR: %p1%\nRoute map index: %p2%\nRoute map number: %p3%\n<AFI, SAFI>: <%p4% %p5%

### Message Parameters

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

# 13 BGP.RIBAbstract Messages

BGP.RIBAbstract.AllocLocRIBFail  
BGP.RIBAbstract.AllocAdjRIBFail  
BGP.RIBAbstract.AllocFail  
BGP.RIBAbstract.AllocSetOperDampParam  
BGP.RIBAbstract.FreeSetOperDampParam  
BGP.RIBAbstract.AllocTrackDampPnltyFail  
BGP.RIBAbstract.BlkLocRIBNoAFMAvail  
BGP.RIBAbstract.UnBlkLocRIB  
BGP.RIBAbstract.AllocRawRecvRt

## BGP.RIBAbstract.AllocLocRIBFail

### Description

No description is available.

### Remedy

Allocate extra resources.

### Severity

Error

### Message Text

The DC-BGP RIB Abstraction Layer has failed to allocate resources for a \nLoc-RIB.\nVR = %p1%

### Message Parameters

Name	Type
p1	sInt32

## BGP.RIBAbstract.AllocAdjRIBFail

---

### Description

No description is available.

### Remedy

None.

### Severity

Error

### Message Text

The DC-BGP RIB Abstraction Layer has failed to allocate resources for \nan Adj-RIB-In or Adj-RIB-Out.  
 \nVR = %p1%\nSession type = %p2%\nAFI = %p3%\nSAFI = %p4%

### Message Parameters

Name	Type
p1	uint32
p2	uint8
p3	uint16
p4	uint8

## BGP.RIBAbstract.AllocFail

---

### Description

No description is available.

### Remedy

None.

### Severity

Error

### Message Text

The DC-BGP RIB Abstraction Layer has failed to allocate resources.\nVR = %p1%

## Message Parameters

Name	Type
p1	uint32

## BGP.RIBAbstract.AllocSetOperDampParam

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

The DC-BGP RIB Abstraction Layer has allocated a set of operational \ndamping parameters.\nVR = %p1%\nPenalty cutoff threshold = %p2%\nPenalty reuse threshold = %p3%\nMax route suppression time = %p4%\nAvailable route penalty half-life = %p5%\nWithdrawn route penalty half-life = %p6%\nAvailable route max penalty time = %p7%\nWithdrawn route max penalty time = %p8%\nSize of available routes penalty factor array = %p9%\nSize of withdrawn routes penalty factor array = %p10%\nScale factor: integer part = %p11%\nScale factor: fractional part = %p12%\nMax reuse index = %p13%

## Message Parameters

Name	Type
p1	uint32
p2	uint32
p3	uint32
p4	uint32
p5	uint32
p6	uint32
p7	uint32
p8	uint32
p9	uint16
p10	uint16
p11	uint16

Name	Type
p12	uint16
p13	uint16

## BGP.RIBAbstract.FreeSetOperDampParam

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

The DC-BGP 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%  
 Max reuse index = %p13%

### Message Parameters

Name	Type
p1	uint32
p2	uint32
p3	uint32
p4	uint32
p5	uint32
p6	uint32
p7	uint32
p8	uint32
p9	uint16
p10	uint16
p11	uint16

Name	Type
p12	uint16
p13	uint16

## BGP.RIBAbstract.AllocTrackDampPnltyFail

### Description

No description is available.

### Remedy

None.

### Severity

Warning

### Message Text

The DC-BGP RIB Abstraction Layer has failed to allocate resources to track a route flap dampening penalty against a BGP route.  
 \nVR = %p1%\nRoute <AFI, SAFI> = < %p2% %p3%\nRoute prefix length (bits) = %p4%\nRoute prefix = %p5%

### Message Parameters

Name	Type
p1	uint32
p2	uint16
p3	uint8
p4	uint8
p5	HexByteArray

## BGP.RIBAbstract.BlkLocRIBNoAFMAvail

### Description

No description is available.

## Remedy

None.

## Severity

Info

## Message Text

A Loc-RIB has been blocked because no AFM is available for the AFI-SAFI.\nVR: %p1%\nAFI: %p2%\nSAFI: %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8

## BGP.RIBAbstract.UnBlkLocRIB

### Description

No description is available.

### Remedy

None.

### Severity

Info

### Message Text

A Loc-RIB has been unblocked.\nVR: %p1%\nAFI: %p2%\nSAFI: %p3%



## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8

## BGP.RIBAbstract.AllocRawRecvRt

### Description

No description is available.

### Remedy

Free system resources and retry the session.

### Severity

Error

### Message Text

The DC-BGP RIB Abstraction Layer has failed to allocate resources to\nstore a raw received route.\nVR = %p1%\nRoute <AFI, SAFI> = < %p2% %p3%\nRoute prefix length (bits) = %p4%\nRoute prefix = %p5%

## Message Parameters

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

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BGP.RIBMgr.DeActv  
BGP.RIBMgr.NbrMIBFSMStateChg  
BGP.RIBMgr.AcptJoinRsrcAllocFail  
BGP.RIBMgr.SlaveJoinFail  
BGP.RIBMgr.DeactvSlaveJoinOK  
BGP.RIBMgr.ActvFSMInInv  
BGP.RIBMgr.FailOvrMstrJoinStub  
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BGP.RIBMgr.ProcStubMsgActTypeUnk  
BGP.RIBMgr.JoinFSMInInv  
BGP.RIBMgr.ProcStubMsgDataLost  
BGP.RIBMgr.AllocLocAddrCBFail  
BGP.RIBMgr.AllocLocSubnetCBFail  
BGP.RIBMgr.FailOvrSlaveJoin  
BGP.RIBMgr.RstrtProcOK  
BGP.RIBMgr.RegWithStub  
BGP.RIBMgr.RecvRegRspnsFmStub  
BGP.RIBMgr.RecvRegOKRspnsFmAFM  
BGP.RIBMgr.RstrtStubTmout  
BGP.RIBMgr.AFMRsyncAftRtstrtTmout  
BGP.RIBMgr.RecvRegFailspnsFmAFM  
BGP.RIBMgr.GrcflRstrtCflct  
BGP.RIBMgr.RemPfxTypeExistAggRt  
BGP.RIBMgr.ChgPfxTypeAdminUp  
BGP.RIBMgr.BGPCfgGrcflRstrtUnsuprt  
BGP.RIBMgr.SetIPv6MaxAddrLenSmall  
BGP.RIBMgr.DsblIPv6PeerPrsnt  
BGP.RIBMgr.SetIPv6PeerIPv6NotEnbl  
BGP.RIBMgr.IPv6PeerCfgNoGlobLocCfg  
BGP.RIBMgr.IPv6PeerCfgNoIPv4LocCfg  
BGP.RIBMgr.AFMJoinNotExist  
BGP.RIBMgr.AddJoinAFMRsrcFail  
BGP.RIBMgr.RstrtProcForceCmplt  
BGP.RIBMgr.BegQueueIPSBusyDC  
BGP.RIBMgr.EndQueueIPSBusyDC  
BGP.RIBMgr.CoopRtFiltCapAFIUnsuprt  
BGP.RIBMgr.CoopRtFiltCapORFUnsuprt  
BGP.RIBMgr.RtRfrshMsgORFNotAgree  
BGP.RIBMgr.RtRfrshMsgORFUnexpct  
BGP.RIBMgr.AllocORFResrcFail  
BGP.RIBMgr.CfgRstrtStateNotPrsrv  
BGP.RIBMgr.PeerRsyncAftRtstrtTmout  
BGP.RIBMgr.ChgInactRtAdvertBGPEnbl  
BGP.RIBMgr.ChgInactRtAdvertNoAllow  
BGP.RIBMgr.ClrFlapStatsFldNotSet  
BGP.RIBMgr.NHSelfCfgOvrrd3rdParty

## BGP.RIBMgr.InitFail

---

### Description

No description is available.

### Remedy

Gather diagnostics and investigate cause of failure.

### Severity

Error

### Message Text

The DC-BGP RIB Manager has failed to initialize.\nVR = %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.InitHAFLibFail

---

### Description

No description is available.

### Remedy

Gather diagnostics and investigate cause of failure.

### Severity

Debug-Summary

### Message Text

The DC-BGP RIB Manager has failed to initialize the HAF library.\nVR = %p1%

## Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.DefJoinIfFail

### Description

No description is available.

### Remedy

Gather diagnostics and investigate cause of failure.

### Severity

Debug-Summary

### Message Text

The DC-BGP RIB Manager has failed to define a join interface.\nJoin interface ID = %p1%\nVR = %p2%

## Message Parameters

Name	Type
p1	sInt32
p2	xInt32

## BGP.RIBMgr.InitMIBProdSuprtLibFail

### Description

No description is available.

### Remedy

Gather diagnostics and investigate cause of failure.

### Severity

Debug-Summary

### Message Text

The DC-BGP RIB Manager has failed to initialize the MIB product\nsupport library.\nVR = %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.RegMIBLibFail

---

### Description

No description is available.

### Remedy

Gather diagnostics and investigate cause of failure.

### Severity

Debug-Summary

### Message Text

The DC-BGP RIB Manager has failed to register a MIB with the MIB product\nsupport library.\nVR = %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.RecvSigInvQueue

---

### Description

No description is available.

### Remedy

Contact support personnel.

## Severity

Error

## Message Text

The DC-BGP RIB Manager has received a signal on an invalid queue.\nQueue ID = %p1%

## Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.RecvMsgTypeUnexpct

### Description

No description is available.

### Remedy

Contact support personnel.

### Severity

Error

### Message Text

DC-BGP RIB Manager has received an unexpected message type.\nVR = %p1%\nQueue ID = %p2%\nIPS type = %p3%

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	xInt32

## BGP.RIBMgr.NbrMIBFSMInInv

### Description

No description is available.

### Remedy

Contact support personnel.

### Severity

Error

### Message Text

Invalid input to DC-BGP RIB Manager Neighbor MIB FSM. \nVR = %p1%\nLocal address = %p2%\nLocal port = %p3%\nRemote address = %p4%\nRemote port = %p5%\nPeer index = %p6%\nAction = %p7%\nInput = %p8%\nState = %p9%

### Message Parameters

Name	Type
p1	xInt32
p2	DecByteArray
p3	uInt16
p4	DecByteArray
p5	uInt16
p6	xInt32
p7	sInt8
p8	sInt8
p9	sInt8

## BGP.RIBMgr.CnctFSMInInv

### Description

No description is available.

### Remedy

Contact support personnel.



## Severity

Error

## Message Text

Invalid input to DC-BGP RIB Manager Connection FSM. \nVR = %p1%\nLocal IP address = %p2%\nLocal port = %p3%\nRemote address = %p4%\nRemote port = %p5%\nPeer index = %p6%\nAction = %p7%\nInput = %p8%\nState = %p9%

## Message Parameters

Name	Type
p1	xInt32
p2	DecByteArray
p3	uInt16
p4	DecByteArray
p5	uInt16
p6	xInt32
p7	sInt8
p8	sInt8
p9	sInt8

## BGP.RIBMgr.RecvSigNonActJoin

### Description

No description is available.

### Remedy

None.

### Severity

Warning

### Message Text

RM has received a signal on a non-active join.\nVR = %p1%\nQueue ID = %p2%\nNIPS type = %p3%\nNIPS sender = %p4%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	xInt32
p4	xInt32

## BGP.RIBMgr.ActvNbrPeerRowFail

### Description

No description is available.

### Remedy

Repeat the MIB operation.

### Severity

Error

### Message Text

An attempt to activate a Neighbor Peer MIB row has failed due to \nresource shortages or because a previous instance of the row is still \nin the process of being destroyed. \nVR = %p1%\nLocal IP address = %p2%\nRemote IP address = %p3%\nResource shortage = %p4%

## Message Parameters

Name	Type
p1	xInt32
p2	DecByteArray
p3	DecByteArray
p4	sInt

## BGP.RIBMgr.DtectIntCflct

### Description

No description is available.

### Remedy

Contact support personnel.

### Severity

Error

### Message Text

The DC-BGP RIB Manager has detected an internal inconsistency.\nInconsistency code = %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.FailOvrAFMMstrJoin

### Description

No description is available.

### Remedy

None.

### Severity

Warning

### Message Text

AFM Master join is failing over.\nMJ CB join index = %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.AFMMstrJoinFail

---

### Description

No description is available.

### Remedy

None.

### Severity

Warning

### Message Text

An AFM master join has failed.\nMJ CB join index = %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.AFMMstrJoinNoSlave

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

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

## Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.AFMSlaveRfusMstrJoin

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

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

## Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.DeactvAFMMstrJoinOK

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

## Message Text

Master join to an AFM has been deactivated normally.\nMJ CB join index = %p1%

## Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.CnctFSMStateChg

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

## Message Text

There has been a change in state of the RIB Manager Connection FSM\nVR = %p1%\nLocal IP address = %p2%\nLocal port = %p3%\nRemote IP address = %p4%\nRemote port = %p5%\nPeer index = %p6%\nInput = %p7%\nOld State = %p8%\nNew State = %p9%\nAction = %p10%

## Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray
p3	uInt16
p4	VarFmtByteArray
p5	uInt16
p6	xInt32
p7	uInt8
p8	uInt8
p9	uInt8
p10	uInt8

## BGP.RIBMgr.NbrMIBFSMStateChgDetail

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

There has been a change in state of the RIB Manager Neighbor MIB FSM\nVR = %p1%\nLocal IP address = %p2%\nLocal port = %p3%\nRemote IP address = %p4%\nRemote port = %p5%\nPeer index = %p6%\nInput = %p7%\nOld State = %p8%\nNew State = %p9%\nAction = %p10%

### Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray
p3	uInt16
p4	VarFmtByteArray
p5	uInt16
p6	xInt32
p7	uInt8
p8	uInt8
p9	uInt8
p10	uInt8

## BGP.RIBMgr.CreatOK

### Description

No description is available.

## Remedy

None.

## Severity

Debug-Summary

## Message Text

The DC-BGP RIB Manager has been created successfully.\nProcess ID = %p1%\nVR = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.RIBMgr.Dstry

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

The DC-BGP RIB Manager has been destroyed.\nProcess ID = %p1%\nVR = %p2%

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32



## BGP.RIBMgr.RxRtRfrshMsg

---

### Description

No description is available.

### Remedy

None.

### Severity

Info

### Message Text

DC-BGP RIB Manager has received a ROUTE REFRESH message.\nVR = %p1%\nAFI = %p2%\nSAFI = %p3%

### Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8

## BGP.RIBMgr.Actv

---

### Description

No description is available.

### Remedy

None.

### Severity

Info

### Message Text

DC-BGP RIB Manager has activated.\nVR = %p1%\nProcess ID = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.RIBMgr.DeActv

### Description

No description is available.

### Remedy

None.

### Severity

Info

### Message Text

DC-BGP RIB Manager has deactivated.\nVR = %p1%\nProcess ID = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.RIBMgr.NbrMIBFSMStateChg

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

## Message Text

There has been a change in state of the RIB Manager Neighbor MIB FSM\nVR = %p1%\nInput = %p2%\nOld State = %p3%\nNew State = %p4%\nAction = %p5%

## Message Parameters

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

## BGP.RIBMgr.AcptJoinRsrcAllocFail

### Description

No description is available.

### Remedy

Contact support personnel.

### Severity

Error

## Message Text

RIB Manager has failed to accept a new join because of a resource \nallocation failure.\nVR = %p1%\nJoin index = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.RIBMgr.SlaveJoinFail

---

### Description

No description is available.

### Remedy

None.

### Severity

Warning

### Message Text

A RIB Manager slave join has failed.\nVR = %p1%\nMaster entity index = %p2%

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.RIBMgr.DeactivSlaveJoinOK

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

A RIB Manager slave join has been deactivated normally.\nVR = %p1%\nMaster entity index = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.RIBMgr.ActvFSMInInv

### Description

No description is available.

### Remedy

Contact support personnel.

### Severity

Error

### Message Text

Invalid input to DC-BGP RIB Manager Activation FSM. \nVR = %p1%\nAction = %p2%\nInput = %p3%\nState = %p4%

## Message Parameters

Name	Type
p1	xInt32
p2	sInt8
p3	sInt8
p4	sInt8

## BGP.RIBMgr.FailOvrMstrJoinStub

### Description

No description is available.

### Remedy

None.

## Severity

Warning

## Message Text

Master join to a stub is failing over.\nStub type = %p1%\nVR = %p2%\nStub entity index = %p3%

## Message Parameters

Name	Type
p1	String
p2	xInt32
p3	uInt32

## BGP.RIBMgr.MstrJoinStubFail

## Description

No description is available.

## Remedy

None.

## Severity

Debug-Verbose

## Message Text

Master join to a stub has failed.\nStub type = %p1%\nVR = %p2%\nStub entity index = %p3%

## Message Parameters

Name	Type
p1	String
p2	xInt32
p3	uInt32

## BGP.RIBMgr.MstrJoinStubNoSlave

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

No slave entity available for the master join to a stub.\nStub type = %p1%\nVR = %p2%\nStub entity index = %p3%

### Message Parameters

Name	Type
p1	String
p2	xInt32
p3	uInt32

## BGP.RIBMgr.SlaveRfusMstrJoin

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

Stub slave entity has refused master join to RIB Manager.\nStub type = %p1%\nVR = %p2%\nStub entity index = %p3%

## Message Parameters

Name	Type
p1	String
p2	xInt32
p3	uInt32

## BGP.RIBMgr.DeactvMstrStubJoinOK

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

Master join to a stub has been deactivated normally.\nStub type = %p1%\nVR = %p2%\nStub entity index = %p3%

## Message Parameters

Name	Type
p1	String
p2	xInt32
p3	uInt32

## BGP.RIBMgr.ClrStatsNbrPeerMIBFail

### Description

No description is available.

### Remedy

None.



## Severity

Error

## Message Text

Failed to clear statistics for neighbor peer MIB.\nVR = %p1%\nLocal IP address = %p2%\nRemote IP address = %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	DecByteArray
p3	DecByteArray

## BGP.RIBMgr.CreatPeerCflctExistPeer

### Description

No description is available.

### Remedy

If both peers are required, ensure that both have at least one of the local address, local port or remote address defined and different.

### Severity

Error

### Message Text

A MIB request has been received which attempted to create a\npeer which only differed from an existing peer because one\nor more of either the existing or new peer's local address,\nlocal port or remote port were undefined. These two peers\nwould have been indistinguishable.\nVR = %p1%\n\nRemote peer address = %p2%\nExisting local address = %p3%\nExisting local port = %p4%\nExisting remote port = %p5%\nAttempted local address = %p6%\nAttempted local port = %p7%\nAttempted remote port = %p8%\nExisting peer index = %p9%

## Message Parameters

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

## BGP.RIBMgr.RemPfxTypeRtMapMatch

### Description

No description is available.

### Remedy

Destroy the route map MIB row before removing support for this prefix type.

### Severity

Error

### Message Text

A MIB request attempted to remove support for an address prefix type when there is a route map that matches on the address prefix type.  
Peer index = %p1%\nRoute map index = %p2%\nRoute map number = %p3%\nAFI = %p4%\nSAFI = %p5%

## Message Parameters

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

## BGP.RIBMgr.RecvSigNonActJoinTrace

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

RM has received a signal on a non-active join.\nVR = %p1%\nQueue ID = %p2%\nIPS type = %p3%\nJoin index = %p4%\nJoin state = %p5%

### Message Parameters

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

## BGP.RIBMgr.RecvRspnsCrltrUnexpct

---

### Description

No description is available.

### Remedy

None.

### Severity

Warning

## Message Text

ATG\_I3\_GET\_INET\_ADDRS response received with an unexpected correlator\nor bad return code.\nVR = %p1%\nI3 Join index = %p2%\nCorrelator = %p3%\nReturn code = %p4%

## Message Parameters

Name	Type
p1	xInt32
p2	sInt32
p3	Ptr
p4	sInt32

## BGP.RIBMgr.ProcStubMsgRsrcUnavail

### Description

No description is available.

### Remedy

None.

### Severity

Warning

## Message Text

An attempt to process an ATG\_I3\_INET\_ADDR\_ENTRY on a received I3 stub\nmessage has failed due to resource shortages.\nVR = %p1%\nI3 Join index = %p2%\nCorrelator = %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	sInt32
p3	Ptr

## BGP.RIBMgr.ProcStubMsgActTypeUnk

---

### Description

No description is available.

### 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\nmessage has failed due to an unknown action type.\nVR = %p1%\nI3 Join index = %p2%\nAction = %p3%

### Message Parameters

Name	Type
p1	xInt32
p2	sInt32
p3	uInt8

## BGP.RIBMgr.JoinFSMInInv

---

### Description

No description is available.

### Remedy

Contact support personnel.

### Severity

Error

### Message Text

Invalid input to DC-BGP RIB Manager Join FSM.\nVR = %p1%\nAction = %p2%\nInput = %p3%\nState = %p4%

## Message Parameters

Name	Type
p1	sInt32
p2	uInt8
p3	uInt8
p4	uInt8

## BGP.RIBMgr.ProcStubMsgDataLost

### Description

No description is available.

### Remedy

None.

### Severity

Warning

### Message Text

An attempt to process an ATG\_I3\_INET\_ADDR\_IND has failed due to local\nresource shortages or indication that the I3 join has lost some\ninformation for the request\nVR = %p1%\nI3 join index = %p2%\nData lost flag value = %p3%\nLocal resource ret code = %p4%

## Message Parameters

Name	Type
p1	xInt32
p2	sInt32
p3	uInt8
p4	uInt8

## BGP.RIBMgr.AllocLocAddrCBFail

### Description

No description is available.

## Remedy

Free up resources on the system.

## Severity

Warning

## Message Text

Failed to allocate memory for a QBRM\_LOCAL\_ADDRESS\_CB.\nVR = %p1%\nAddress = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	DecByteArray

## BGP.RIBMgr.AllocLocSubnetCFail

## Description

No description is available.

## Remedy

Free up resources on the system.

## Severity

Warning

## Message Text

Failed to allocate memory for a QBRM\_LOCAL\_SUBNET\_CB.\nVR = %p1%\nSubnet mask len (in bits) = %p2%\nSubnet = %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt8
p3	DecByteArray

---

## BGP.RIBMgr.FailOvrSlaveJoin

---

### Description

No description is available.

### Remedy

None.

### Severity

Warning

### Message Text

A RIB Manager slave join is failing over.\nVR = %p1%\nMaster entity index = %p2%

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32

---

## BGP.RIBMgr.RstrtProcOK

---

### Description

No description is available.

### Remedy

None.

### Severity

Info

### Message Text

DC-BGP RIB Manager has successfully completed restart processing.\nVR = %p1%



## Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.RegWithStub

### Description

No description is available.

### Remedy

None.

### Severity

Info

### Message Text

DC-BGP RIB Manager is registering with the I3 stub.\nStub type = %p1%\nVR = %p2%

## Message Parameters

Name	Type
p1	String
p2	xInt32

## BGP.RIBMgr.RecvRegRspnsFmStub

### Description

No description is available.

### Remedy

None.

### Severity

Info

## Message Text

DC-BGP RIB Manager has received a register response from a stub.\nStub type = %p1%\nVR = %p2%\nRegister return code = %p3%

## Message Parameters

Name	Type
p1	String
p2	xInt32
p3	sInt32

## BGP.RIBMgr.RecvRegOKRspnsFmAFM

### Description

No description is available.

### Remedy

None.

### Severity

Info

## Message Text

DC-BGP RIB Manager has received a successful register response\nfrom an AFM.\nVR = %p1%\nAFM AFI = %p2%\nAFM SAFI = %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8

---

## BGP.RIBMgr.RstrtStubTmout

---

### Description

No description is available.

### Remedy

Investigate the failure of the stub.

### Severity

Warning

### Message Text

A stub has failed to restart within the configured time.\nStub type = %p1%\nVR = %p2%

### Message Parameters

Name	Type
p1	String
p2	xInt32

---

## BGP.RIBMgr.AFMRsyncAftRtstrtTmout

---

### Description

No description is available.

### Remedy

None.

### Severity

Warning

### Message Text

RM AFM resynchronization after restart has timed out.\nVR = %p1%

## Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.RecvRegFailsPnsFmAFM

### Description

No description is available.

### Remedy

Investigate why the AFM failed to register.

### Severity

Warning

### Message Text

DC-BGP RIB Manager has received an unsuccessful register response \nfrom an AFM.\nVR = %p1%\n\nAFM AFI = %p2%\n\nAFM SAFI = %p3%\n\nRegister return code = %p4%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8
p4	sInt32

## BGP.RIBMgr.GrcflRstrtCflct

### Description

No description is available.

### Remedy

Reconfigure DC-BGP RIB Manager so it does not appear to have undergone a graceful restart.

## Severity

Error

## Message Text

DC-BGP RIB Manager graceful restart configuration is inconsistent. \nVR = %p1%\nRestart Supported = %p2%\nCurrently restarting = %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt8
p3	uInt8

## BGP.RIBMgr.RemPfxTypeExistAggRt

### Description

No description is available.

### Remedy

Destroy the aggregate route before removing support for this prefix type.

### Severity

Error

### Message Text

A MIB request attempted to remove support for an address prefix type when\nthere is an aggregate route of that address prefix type.\nPeer index = %p1%\nAggregate route = %p2%\nAggregate prefix length = %p3%\nAFI = %p4%\nSAFI = %p5%

### Message Parameters

Name	Type
p1	xInt32
p2	DecByteArray
p3	uInt8

Name	Type
p4	uint16
p5	uint8

## BGP.RIBMgr.ChgPfxTypeAdminUp

### Description

No description is available.

### 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\nRM is admin-up.\nVR = %p1%\nAFI = %p2%\nSAFI = %p3%

### Message Parameters

Name	Type
p1	xInt32
p2	uint16
p3	uint8

## BGP.RIBMgr.BGPCfgGrcflRstrtUnsuprt

### Description

No description is available.

### Remedy

Either enable graceful restart, flag RM as restarting, or set the state\_kept flags of all AFI/SAFIs to FALSE.

## Severity

Warning

## Message Text

DC-BGP has been configured as if the forwarding state for an AFI/SAFI has been preserved over a restart, but this instance of DC-BGP does not support graceful restart. \nVR = %p1%\nAFI = %p2%\nSAFI = %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8

## BGP.RIBMgr.SetIPv6MaxAddrLenSmall

### Description

No description is available.

### Remedy

To enable IPv6 support, QO\_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 QO\_CUST\_MAX\_ADDR\_LEN compile-time constant is too small for IPv6 addresses. \nVR = %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.DsblIPv6PeerPrsnt

---

### Description

No description is available.

### Remedy

Ensure that there are no IPv6 peers present before disabling IPv6 support in RM.

### Severity

Error

### Message Text

A MIB request attempted to disable IPv6 support in RM, but there is an\nIPv6 peer present.\nVR = %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.SetIPv6PeerIPv6NotEnbl

---

### Description

No description is available.

### Remedy

Enable IPv6 support in RM, if your product license entitles you to do so.

### Severity

Error

### Message Text

A MIB request attempted to set an IPv6 peer but IPv6 support is not\nenabled.\nVR = %p1%



## Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.IPv6PeerCfgNoGlobLocCfg

### Description

No description is available.

### Remedy

Configure a global IPv6 local IP address for this router.

### Severity

Warning

### Message Text

An IPv6 peer has been configured, but there are no global IPv6 local\naddresses configured. \nVR = %p1%\nPeers BGP Identifier = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.RIBMgr.IPv6PeerCfgNoIPv4LocCfg

### Description

No description is available.

### Remedy

Configure an IPv4 local IP address for this router.

### Severity

Warning

## Message Text

An IPv6 peer has been configured, but there are no IPv4 local addresses\nconfigured. \nVR = %p1%  
\nPeers BGP Identifier = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.RIBMgr.AFMJoinNotExist

### Description

No description is available.

### Remedy

Ensure there is an AFM join available for this <AFI, SAFI>.

### Severity

Warning

## Message Text

There is no active AFM join for an <AFI, SAFI> that requires one.\nVR = %p1%\nAFI = %p2%\nSAFI = %p3%\nRoutes withdrawn? = %p4%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8
p4	String

## BGP.RIBMgr.AddJoinAFMRsrcFail

---

### Description

No description is available.

### 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.\nVR = %p1%\nJoin index = %p2%\nAFI = %p3%\nSAFI = %p4%

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	uInt16
p4	uInt8

## BGP.RIBMgr.RstrtProcForceCmplt

---

### Description

No description is available.

### Remedy

None.

### Severity

Warning

### Message Text

DC-BGP RIB Manager has been forced into completing restart processing\ndue to recovery timer firing.  
\nVR = %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.BegQueueIPSBusyDC

### Description

No description is available.

### Remedy

If this happens frequently, consider adjusting pause processing thresholds so that Decision Coordinator is not blocked as much.

### Severity

Info

### Message Text

DC-BGP RIB Manager has begun queueing AFM and HAF IPSs due to blocked\ndecision coordinator.  
\nIPS source = %p1%\nVR = %p2%\nFirst queued signal's type = %p3%

### Message Parameters

Name	Type
p1	String
p2	xInt32
p3	xInt32

## BGP.RIBMgr.EndQueueIPSBusyDC

### Description

No description is available.

## Remedy

None.

## Severity

Info

## Message Text

DC-BGP RIB Manager has completed processing its queue of AFM and HAF\nIPSs which were queued when Decision Coordinator was blocked. \nVR = %p1%

## Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.CoopRtFiltCapAFIUnsuprt

## Description

No description is available.

## Remedy

DC-BGP should support ORF for all AFI/SAFI to which filtering rules are applicable. Investigate whether DC-BGP supports this AFI/SAFI combination.

## Severity

Warning

## Message Text

A Cooperative Route Filtering Capability entry containing an\nunsupported AFI/SAFI combination has been received. \nVR = %p1%\nPeer index = %p2%\nAFI = %p3%\nSAFI = %p4%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

Name	Type
p3	uint16
p4	uint8

## BGP.RIBMgr.CoopRtFiltCapORFUnsuprt

### Description

No description is available.

### Remedy

None.

### Severity

Info

### Message Text

A Cooperative Route Filtering Capability entry containing an unsupported ORF Type has been received. \nVR = %p1%\nPeer index = %p2%\nORF Type = %p3%

### Message Parameters

Name	Type
p1	xInt32
p2	xInt32
p3	uint8

## BGP.RIBMgr.RtRfrshMsgORFNotAgree

### Description

No description is available.

### 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\nAFI/SAFI for which ORF support was not agreed during capability exchange\nVR = %p1%\nLocal peer address = %p2%\nLocal port = %p3%\nRemote peer address = %p4%\nRemote port = %p5%\nAFI = %p6%\nSAFI = %p7%

## Message Parameters

Name	Type
p1	uint32
p2	VarFmtByteArray
p3	uint16
p4	VarFmtByteArray
p5	uint16
p6	uint16
p7	uint8

## BGP.RIBMgr.RtRfrshMsgORFUnexpct

### Description

No description is available.

### Remedy

If the ORF type is supported by DC-BGP 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\nreceived.\nVR = %p1%\n\nLocal peer address = %p2%\nLocal port = %p3%\nRemote peer address = %p4%\nRemote port = %p5%\nAFI = %p6%\nSAFI = %p7%\nORF type = %p8%

## Message Parameters

Name	Type
p1	uint32
p2	VarFmtByteArray
p3	uint16
p4	VarFmtByteArray
p5	uint16
p6	uint16
p7	uint8
p8	uint8

## BGP.RIBMgr.AllocORFResrcFail

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Error

### Message Text

Failed to allocate resources for an ORF.\nVR = %p1%\nLocal peer address = %p2%\nLocal port = %p3%\nRemote peer address = %p4%\nRemote port = %p5%\nAFI = %p6%\nSAFI = %p7%\nORF type = %p8%

## Message Parameters

Name	Type
p1	uint32
p2	VarFmtByteArray
p3	uint16
p4	VarFmtByteArray
p5	uint16
p6	uint16



Name	Type
p7	uint8
p8	uint8

## BGP.RIBMgr.CfgRstrtStateNotPrsrv

### Description

No description is available.

### Remedy

Ensure that this is an expected configuration combination for your implementation.

### Severity

Warning

### Message Text

RM configured as restarting but no AFI/SAFI state has been preserved.\nVR = %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.PeerRsyncAftRtstrtTmout

### Description

No description is available.

### Remedy

None.

### Severity

Warning

## Message Text

RM peer resynchronization after restart (Selection Deferral) has timed\nout.\nVR = %p1%

## Message Parameters

Name	Type
p1	xInt32

## BGP.RIBMgr.ChgInactRtAdvertBGPEnl

### Description

No description is available.

### 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\nwhile BGP is enabled.\nVR = %p1%\nAFI = %p2%\nSAFI = %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8

## BGP.RIBMgr.ChgInactRtAdvertNoAllow

### Description

No description is available.

## 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\nfor an AFI/SAFI for which this is not allowed.\nVR = %p1%\nAFI = %p2%\nSAFI = %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt16
p3	uInt8

## BGP.RIBMgr.ClrFlapStatsFldNotSet

### Description

No description is available.

### Remedy

To clear flap statistics for routes matching a Route Map, the user must set `bgpPeerFlapStatsClearMap` to indicate the Route Map, and must also set `bgpPeerFlapStatsClearStat` to indicate that DC-BGP should clear flap statistics.

### Severity

Warning

### Message Text

DC-BGP has received a MIB request to clear flap statistics for a Route\nMap, but the `bgpPeerFlapStatsClearStat` field was not set.\nVR = %p1%\nPeer index = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

## BGP.RIBMgr.NHSelfCfgOvrrd3rdParty

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Info

### Message Text

Next-hop-self configuration overrides third-party next-hop configuration.\nVR: %p1%\nPeer index: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	xInt32

# 15 BGP.RtMgr Messages

BGP.RtMgr.EnterFnc  
BGP.RtMgr.ExitFnc  
BGP.RtMgr.FlowTrace  
BGP.RtMgr.DetailTrace  
BGP.RtMgr.InitFailObjNotCreat  
BGP.RtMgr.MSDPAllocFail  
BGP.RtMgr.AllocFail  
BGP.RtMgr.APIFail  
BGP.RtMgr.LkupRegFail  
BGP.RtMgr.RtImprtIgnAttr  
BGP.RtMgr.APICall  
BGP.RtMgr.RtImprt  
BGP.RtMgr.RtImprtFail  
BGP.RtMgr.RtImprtBusy  
BGP.RtMgr.ProcImprtRtMsg  
BGP.RtMgr.ProcImprtRtMsgYield  
BGP.RtMgr.ProcImprtRtMsgResume  
BGP.RtMgr.ImprtRtSchedCmmt  
BGP.RtMgr.RtImprtCmmtTrans  
BGP.RtMgr.RtImprtCmmtTransFail  
BGP.RtMgr.EnterRtMgrApiBackoff  
BGP.RtMgr.ExitRtMgrApiBackoff  
BGP.RtMgr.NextHopReg  
BGP.RtMgr.NextHopRegFail  
BGP.RtMgr.NextHopUnreg  
BGP.RtMgr.NextHopUnregFail  
BGP.RtMgr.NextHopRch  
BGP.RtMgr.NextHopUnrch  
BGP.RtMgr.RecvExprtRtAdd  
BGP.RtMgr.RecvExprtRtDel  
BGP.RtMgr.RecvWalkRtNtfy  
BGP.RtMgr.DebugSummary  
BGP.RtMgr.DebugVerbose  
BGP.RtMgr.DebugData  
BGP.RtMgr.CreatRtMgrQPipeFail  
BGP.RtMgr.CfgRtMgrQPipeFail  
BGP.RtMgr.RecvRtMgrQTrigFail

BGP.RtMgr.SendRtMgrQTrigFail  
BGP.RtMgr.AddedNtfySvcToDisp  
BGP.RtMgr.AddNtfySvcToDispFail  
BGP.RtMgr.GetPurgeTmout  
BGP.RtMgr.SetPurgeTmout  
BGP.RtMgr.SendRstrtUpdtStrt  
BGP.RtMgr.SendRstrtUpdtEnd  
BGP.RtMgr.RecvSelfRtNtfy  
BGP.RtMgr.NetworkAdd  
BGP.RtMgr.NetworkDel  
BGP.RtMgr.LostNtfySvcConn  
BGP.RtMgr.ExprtMasksReg  
BGP.RtMgr.WalkStart  
BGP.RtMgr.RtAdd  
BGP.RtMgr.RtDel  
BGP.RtMgr.RtRejExprrtPlcy  
BGP.RtMgr.MSDPPfxReg  
BGP.RtMgr.MSDPPfxRegFail  
BGP.RtMgr.MSDPPfxUnreg  
BGP.RtMgr.MSDPRtInfoNtfy  
BGP.RtMgr.VRCreate  
BGP.RtMgr.VRDel  
BGP.RtMgr.Reg  
BGP.RtMgr.RegFail  
BGP.RtMgr.ProcRpiReg  
BGP.RtMgr.Unreg  
BGP.RtMgr.RecvRstrtUpdtStrtAck  
BGP.RtMgr.RecvRstrtUpdtEndAck  
BGP.RtMgr.SendRstrTblEnd  
BGP.RtMgr.WalkEnd  
BGP.RtMgr.RtRejNwkPlcy  
BGP.RtMgr.MSDPRtInfoReq  
BGP.RtMgr.ProcRpiUnreg  
BGP.RtMgr.VPNLabelInd  
BGP.RtMgr.VPNLabelIndSupp  
BGP.RtMgr.VPNLabelChgFlapVR  
BGP.RtMgr.RegStateChg  
BGP.RtMgr.RegStateActInv

---

## 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.RtImprtlgnAttr

### 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

Name	Type
nhop	IPAddress
nvrid	VRID
proto	String
flags	xInt
ttl	uInt32
rank	uInt8
len	uInt

## BGP.RtMgr.RtImpprtFail

### Description

BGP failed in the API call to import routes into RIB. This indicates a failure occurred 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	ulnt16
safi	ulnt8
msg	Ptr
nrtes	ulnt32

## 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	ulnt16
safi	ulnt8
msg	Ptr



Name	Type
nrtes	uInt32
nproc	uInt32

## BGP.RtMgr.ProcImpRtMsgResume

### 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.ImpRtSchedCmmt

### 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.RtImpprtCmmtTrans

### 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 %hdl%

## Message Parameters

Name	Type
vrid	VRID
reg	Ptr
afi	uint16
safi	uint8
hndl	Ptr

## BGP.RtMgr.RtImpprtCmmtTransFail

### 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



Name	Type
afi	uint16
safi	uint8
pfx	IPAddress
plen	uint8
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%,%hdl%} %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
px	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 queue internal 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	slnt

## BGP.RtMgr.SendRstrUpdtStrt

### 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	slnt

## BGP.RtMgr.SendRstrUpdtEnd

### 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	slnt

## 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

Name	Type
pType	String
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	slnt

## 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

Name	Type
plen	uint8
nhop	IPAddress
nvid	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 registering 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

Name	Type
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=%vrpcb%

### Message Parameters

Name	Type
vrid	VRID
isvrf	Char
isvpn	Char
vrpcb	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=%vrpcb%

## Message Parameters

Name	Type
vrid	VRID
isvrf	Char
isvpn	Char
vrpcb	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	slnt

## 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.RecvRstrUpdtEndAck

## 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

# 16 BGP.UpdateMgr Messages

BGP.UpdateMgr.InitRsrcFail  
BGP.UpdateMgr.FSMErr  
BGP.UpdateMgr.PauseWaitPostBuf  
BGP.UpdateMgr.PauseWorkThrshRch  
BGP.UpdateMgr.ContProcAftPause  
BGP.UpdateMgr.RecvPostBuf  
BGP.UpdateMgr.PauseRsrcFail  
BGP.UpdateMgr.DlaySendBGPUpdtRtSuprs  
BGP.UpdateMgr.RtNotAdvertLargeUpdtMsg  
BGP.UpdateMgr.ChgDurSuprsTimer  
BGP.UpdateMgr.DlaySendBGPUpdtFail  
BGP.UpdateMgr.AROMibGetRsrcFail

## BGP.UpdateMgr.InitRsrcFail

### Description

No description is available.

### Remedy

Investigate the memory shortage.

### Severity

Error

### Message Text

DC-BGP Resource failure during Update Manager initialization.\nVR: %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.UpdateMgr.FSMErr

---

### Description

No description is available.

### Remedy

Contact support.

### Severity

Error

### Message Text

DC-BGP Update Manager FSM error.\nVR: %p1%\nAction: %p2%\nInput: %p3%\nFSM state: %p4%

### Message Parameters

Name	Type
p1	xInt32
p2	sInt8
p3	sInt8
p4	sInt8

## BGP.UpdateMgr.PauseWaitPostBuf

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Debug-Summary

### Message Text

DC-BGP Update Manager has paused waiting for a posted buffer.\nVR: %p1%\nBuffer action correlator: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	sInt8

## BGP.UpdateMgr.PauseWorkThrshRch

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Debug-Summary

### Message Text

DC-BGP Update Manager has paused because the work threshold has been\nreached.\nVR: %p1%\n\nPause type: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	sInt8

## BGP.UpdateMgr.ContProcAftPause

### Description

No description is available.

### Remedy

No remedy is available.

## Severity

Debug-Summary

## Message Text

DC-BGP Update Manager has continued processing following a pause.\nVR: %p1%\nPause type: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	sInt8

## BGP.UpdateMgr.RecvPostBuf

### Description

No description is available.

### Remedy

No remedy is available.

## Severity

Debug-Summary

## Message Text

DC-BGP Update Manager has received a posted buffer.\nVR: %p1%\nBuffer action correlator: %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	sInt8

## BGP.UpdateMgr.PauseRsrcFail

### Description

No description is available.

## Remedy

Make more memory available to DC-BGP, or reduce the memory requirements of DC-BGP - for example, by terminating sessions.

## Severity

Warning

## Message Text

DC-BGP Update Manager has paused because of a resource failure.\nVR: %p1%

## Message Parameters

Name	Type
p1	xInt32

## BGP.UpdateMgr.DlaySendBGPUpdtRtSuprs

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Debug-Summary

### Message Text

DC-BGP Update Manager has delayed sending a BGP UPDATE as a route is\nsuppressed.\nVR: %p1%

### Message Parameters

Name	Type
p1	xInt32

## BGP.UpdateMgr.RtNotAdvertLargeUpdtMsg

### Description

No description is available.

### 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 \nmaximum allowed size of a BGP UPDATE message. \nVR = %p1%\nDestination address AFI/SAFI = %p2%\nDestination address prefix = %p3%\nDestination address prefix length = %p4%

### Message Parameters

Name	Type
p1	xInt32
p2	uInt8
p3	DecByteArray
p4	uInt8

## BGP.UpdateMgr.ChgDurSuprsTimer

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Debug-Summary

## Message Text

The duration of the suppression timer has been changed. The suppression\ntimes for routes that are currently being suppressed will be changed.\nVR: %p1%\nOld timer duration: %p2%\nNew timer duration: %p3%

## Message Parameters

Name	Type
p1	xInt32
p2	uInt32
p3	uInt32

## BGP.UpdateMgr.DlaySendBGPUpdtFail

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Debug-Summary

## Message Text

Update Manager has failed to delay sending of a BGP UPDATE because\nsuppression procedures can no longer be honored for a route as a result\nof exceeding the ARO Route Threshold.\nVR = %p1%

## Message Parameters

Name	Type
p1	xInt32

## BGP.UpdateMgr.AROMibGetRsrcFail

### Description

No description is available.



## Remedy

Free resources and reattempt the MIB retrieval.

## Severity

Error

## Message Text

Update Manager experienced resource failure whilst attempting to process\na MIB GET for the Adj-RIB-Out table.\nVR = %p1%

## Message Parameters

Name	Type
p1	xInt32

# 17 BGP.VLAN Messages

---

BGP.VLAN.AllocMsgFail  
BGP.VLAN.APIFail  
BGP.VLAN.RecvReqSmall  
BGP.VLAN.SendMsgFail  
BGP.VLAN.DevTest  
BGP.VLAN.RecvGetAddrReq  
BGP.VLAN.PrepareGetAddrReply  
BGP.VLAN.SendGetAddrReply  
BGP.VLAN.RecvCreatVR  
BGP.VLAN.RecvDelVR  
BGP.VLAN.RecvCreatVLAN  
BGP.VLAN.RecvDelVLAN  
BGP.VLAN.SendAddr  
BGP.VLAN.RecvUpdtVR

## 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.PrepareGetAddrReply

### 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.RecvDeIVLAN

### 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
ifInst	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

# 18 BGP.VPNMgr Messages

BGP.VPNMgr.InitFail  
BGP.VPNMgr.InitHAFLibFail  
BGP.VPNMgr.DefJoinIfFail  
BGP.VPNMgr.InitMIBProdSuprtLibFail  
BGP.VPNMgr.RegMIBLibFail  
BGP.VPNMgr.RecvSigInvQueue  
BGP.VPNMgr.RecvMsgTypeUnexpct  
BGP.VPNMgr.Dstry  
BGP.VPNMgr.DtectIntCflct  
BGP.VPNMgr.FailOvrIfInfoMstrJoin  
BGP.VPNMgr.IfInfoMstrJoinFail  
BGP.VPNMgr.IfInfoMstrJoinNoSlave  
BGP.VPNMgr.IfInfoSlaveRfusMstrJoin  
BGP.VPNMgr.DeactvIfInfoMstrJoinOK  
BGP.VPNMgr.FailOvrLblMgrMstrJoin  
BGP.VPNMgr.LblMgrMstrJoinFail  
BGP.VPNMgr.LblMgrMstrJoinNoSlave  
BGP.VPNMgr.LblMgrSlaveRfusMstrJoin  
BGP.VPNMgr.DeactvLblMgrMstrJoinOK  
BGP.VPNMgr.FailOvrRtMgrMstrJoin  
BGP.VPNMgr.RtMgrMstrJoinFail  
BGP.VPNMgr.RtMgrMstrJoinNoSlave  
BGP.VPNMgr.RtMgrSlaveRfusMstrJoin  
BGP.VPNMgr.DeactvRtMgrMstrJoinOK  
BGP.VPNMgr.InvPrtnrJoinRtProtolf  
BGP.VPNMgr.RfusBGPInstcJoin  
BGP.VPNMgr.ActvFSMStateChg  
BGP.VPNMgr.ActvFSMStateCflct  
BGP.VPNMgr.AddJoinLMGRFail  
BGP.VPNMgr.AddJoinIfInfoFail  
BGP.VPNMgr.CreatOK  
BGP.VPNMgr.AddJoinVRFFail  
BGP.VPNMgr.LblProcStateCflct  
BGP.VPNMgr.AllocMemRVXCntnFail  
BGP.VPNMgr.AllocMemRVCntnFail  
BGP.VPNMgr.AllocMemNewRtFail  
BGP.VPNMgr.RecvBGPRTNoRtTrgt

BGP.VPNMgr.RecvBGPWthdrRtNotFnd  
 BGP.VPNMgr.RecvVRFRTsrcFail  
 BGP.VPNMgr.RecvVRFWthdrRtNotFnd  
 BGP.VPNMgr.RtProcRVFSMStateCfct  
 BGP.VPNMgr.RtProcRVXFSMStateCfct  
 BGP.VPNMgr.EstbXCLbILSPFail  
 BGP.VPNMgr.EstbXCLbILSPOK  
 BGP.VPNMgr.AllocMemPECBFail  
 BGP.VPNMgr.InitXCCBFail  
 BGP.VPNMgr.ProcBGPRTsrcFail  
 BGP.VPNMgr.RecvRmtRtPeerNoActvTunl  
 BGP.VPNMgr.ActvTunlAllowPEAvail  
 BGP.VPNMgr.RecvRmtRtBOSFlgNotSet  
 BGP.VPNMgr.RmtRtUnavailNoActvTunl  
 BGP.VPNMgr.RecvRtWithRtTrgtFmCE  
 BGP.VPNMgr.RecvRtEntNonZeroRtDstng  
 BGP.VPNMgr.AllocMemUserDataCBFail  
 BGP.VPNMgr.ChgUserDataCB  
 BGP.VPNMgr.RtMgrMstrJoinRstrtAbnd  
 BGP.VPNMgr.RtMgrRstrtMstrJoinTmout  
 BGP.VPNMgr.RecvOKRegRspnsVRFRTMgr  
 BGP.VPNMgr.RcvryProcTmoutBefRtRecv  
 BGP.VPNMgr.SetTimerGtrRcvryTimer  
 BGP.VPNMgr.RecvRtDupRtTrgt  
 BGP.VPNMgr.AllocMemASPathCBFail  
 BGP.VPNMgr.ChgASPathCB  
 BGP.VPNMgr.RecvRtEntMultiNH  
 BGP.VPNMgr.AddVRFRTMgrRsrcFail  
 BGP.VPNMgr.AllocMemNtfnBufPoolFail  
 BGP.VPNMgr.AllocMemLblCBFail  
 BGP.VPNMgr.RecvRmtRtWthdr

## BGP.VPNMgr.InitFail

### Description

No description is available.

### Remedy

Gather diagnostics and investigate cause of failure.

### Severity

Error

### Message Text

The DC-BGP VPN Manager has failed to initialize.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	slnt32

## BGP.VPNMgr.InitHAFLibFail

---

### Description

No description is available.

### Remedy

Gather diagnostics and investigate cause of failure.

### Severity

Debug-Summary

### Message Text

The DC-BGP VPN Manager has failed to initialize the HAF library.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	slnt32

## BGP.VPNMgr.DefJoinIfFail

---

### Description

No description is available.

## Remedy

Gather diagnostics and investigate cause of failure.

## Severity

Debug-Summary

## Message Text

The DC-BGP VPN Manager has failed to define a join interface.\nJoin interface ID = %p1%\n VRID %p2%\n\n

## Message Parameters

Name	Type
p1	sInt32
p2	sInt32

## BGP.VPNMgr.InitMIBProdSuprtLibFail

## Description

No description is available.

## Remedy

Gather diagnostics and investigate cause of failure.

## Severity

Debug-Summary

## Message Text

The DC-BGP VPN Manager has failed to initialize the MIB product\nsupport library.\nVRID %p1%\n\n

## Message Parameters

Name	Type
p1	sInt32

---

## BGP.VPNMgr.RegMIBLibFail

---

### Description

No description is available.

### Remedy

Gather diagnostics and investigate cause of failure.

### Severity

Debug-Summary

### Message Text

The DC-BGP VPN Manager has failed to register a MIB with the MIB product\nsupport library.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	sInt32

---

## BGP.VPNMgr.RecvSigInvQueue

---

### Description

No description is available.

### Remedy

Gather diagnostics and contact support personnel.

### Severity

Error

### Message Text

The DC-BGP VPN Manager has received a signal on an invalid queue.\nBVM entity Index = %p1%\nQueue ID = %p2%\n

## Message Parameters

Name	Type
p1	sInt32
p2	xInt32

## BGP.VPNMgr.RecvMsgTypeUnexpct

### Description

No description is available.

### Remedy

Gather diagnostics and contact support personnel.

### Severity

Error

### Message Text

DC-BGP VPN Manager has received an unexpected message type.\nVRID %p1%\n Queue ID = %p2%\n IPS type = %p3%\n

## Message Parameters

Name	Type
p1	sInt32
p2	xInt32
p3	xInt32

## BGP.VPNMgr.Dstry

### Description

No description is available.

### Remedy

None.



## Severity

Debug-Summary

## Message Text

The DC-BGP VPN Manager has been destroyed.\nProcess ID = %p1%\n VRID %p2%\n

## Message Parameters

Name	Type
p1	xInt32
p2	sInt32

## BGP.VPNMgr.DtectIntCflct

## Description

No description is available.

## Remedy

Gather diagnostics and contact support personnel.

## Severity

Error

## Message Text

The DC-BGP VPN Manager has detected an internal inconsistency.\nVRID %p1%\n Inconsistency code = %p2%\n

## Message Parameters

Name	Type
p1	sInt32
p2	xInt32

---

## BGP.VPNMgr.FailOvrIfInfoMstrJoin

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

BVMs master join to an I3 stub is failing over.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	sint32

---

## BGP.VPNMgr.IfInfoMstrJoinFail

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

BVMs master join to an I3 stub has failed.\nVRID %p1%\n

## Message Parameters

Name	Type
p1	sInt32

## BGP.VPNMgr.IfInfoMstrJoinNoSlave

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

BVM has no slave entity available for the master join to an I3 stub.\nVRID %p1%\n

## Message Parameters

Name	Type
p1	sInt32

## BGP.VPNMgr.IfInfoSlaveRfusMstrJoin

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

An I3 slave entity has refused the master join to BVM.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	sInt32

## BGP.VPNMgr.DeactvIfInfoMstrJoinOK

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

BVMs Master Join to an I3 stub has been deactivated normally.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	sInt32

## BGP.VPNMgr.FailOvrLbIMgrMstrJoin

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

BVMs master join to LMGR is failing over.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	slnt32

## BGP.VPNMgr.LbIMgrMstrJoinFail

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

BVMs master join to LMGR has failed.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	slnt32

## BGP.VPNMgr.LbIMgrMstrJoinNoSlave

### Description

No description is available.

## Remedy

None.

## Severity

Debug-Summary

## Message Text

BVM has no slave entity available for the master join to LMGR.\nVRID %p1%\n

## Message Parameters

Name	Type
p1	sInt32

## BGP.VPNMgr.LbIMgrSlaveRfusMstrJoin

## Description

No description is available.

## Remedy

None.

## Severity

Debug-Summary

## Message Text

An LMGR slave entity has refused the master join to BVM.\nVRID %p1%\n

## Message Parameters

Name	Type
p1	sInt32

## BGP.VPNMgr.DeactvLbIMgrMstrJoinOK

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

BVMs Master Join to LMGR has been deactivated normally.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	sint32

## BGP.VPNMgr.FailOvrRtMgrMstrJoin

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

BVMs master join to an RTM is failing over.\nVRID %p1%\n RTM entity index = %p2%\n

## Message Parameters

Name	Type
p1	sInt32
p2	sInt32

## BGP.VPNMgr.RtMgrMstrJoinFail

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

BVMs master join to an RTM has failed.\nVRID %p1%\n RTM entity index = %p2%\n

## Message Parameters

Name	Type
p1	sInt32
p2	sInt32

## BGP.VPNMgr.RtMgrMstrJoinNoSlave

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary



### Message Text

BVM has no slave entity available for the master join to an RTM.\nVRID %p1%\n RTM entity index = %p2%\n

### Message Parameters

Name	Type
p1	sInt32
p2	sInt32

## BGP.VPNMgr.RtMgrSlaveRfusMstrJoin

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

An RTM slave entity has refused the master join to BVM.\nVRID %p1%\n RTM entity index = %p2%\n

### Message Parameters

Name	Type
p1	sInt32
p2	sInt32

## BGP.VPNMgr.DeactvRtMgrMstrJoinOK

### Description

No description is available.

## Remedy

None.

## Severity

Debug-Summary

## Message Text

BVMs Master Join to an RTM has been deactivated normally.\nVRID %p1%\n RTM entity index = %p2%\n

## Message Parameters

Name	Type
p1	slnt32
p2	slnt32

## BGP.VPNMgr.InvPrtnrJoinRtProtoIf

## Description

No description is available.

## Remedy

Check the configuration of each master entity.

## Severity

Error

## Message Text

An invalid partner has attempted to join to BVM over the Routing \nProtocol Interface.\nVRID %p1%\n Protocol Type = %p2%\n Address type = %p3%\n Address subtype = %p4%\n

## Message Parameters

Name	Type
p1	slnt32
p2	xInt32

Name	Type
p3	uint8
p4	uint8

## BGP.VPNMgr.RfusBGPIInstcJoin

### Description

No description is available.

### 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 \nalready has another join.  
 \nVRID %p1%\n BGP Join status = %p2%\n BVM Admin Status = %p3%\n

### Message Parameters

Name	Type
p1	sInt32
p2	xInt32
p3	uint8

## BGP.VPNMgr.ActvFSMStateChg

### Description

No description is available.

### Remedy

None.

## Severity

Debug-Summary

## Message Text

There has been a change in state of the BGP VPN Manager Activation FSM\nVRID %p1%\n Input = %p2%\n Old State = %p3%\n New State = %p4%\n Action = %p5%\n

## Message Parameters

Name	Type
p1	sInt32
p2	uint8
p3	uint8
p4	uint8
p5	uint8

## BGP.VPNMgr.ActvFSMStateCflct

### Description

No description is available.

### Remedy

Gather diagnostics and contact support personnel.

### Severity

Error

### Message Text

The BGP VPN Manager Activation FSM is in an inconsistent state.\nVRID %p1%\n Input = %p2%\n Old State = %p3%\n Action = %p4%\n

### Message Parameters

Name	Type
p1	sInt32
p2	uint8

Name	Type
p3	uint8
p4	uint8

## BGP.VPNMgr.AddJoinLMGRFail

### Description

No description is available.

### Remedy

Free resources and try again.

### Severity

Error

### Message Text

BVM has failed to add a join to LMGR.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	sInt32

## BGP.VPNMgr.AddJoinIfInfoFail

### Description

No description is available.

### Remedy

Free resources and try again.

### Severity

Error

### Message Text

BVM has failed to add a join to I3.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	sInt32

## BGP.VPNMgr.CreatOK

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

The DC-BGP VPN Manager has been created successfully.\nProcess ID = %p1%\n VRID %p2%\n

### Message Parameters

Name	Type
p1	xInt32
p2	sInt32

## BGP.VPNMgr.AddJoinVRFFail

---

### Description

No description is available.

### Remedy

Free resources and try again.

## Severity

Error

## Message Text

BVM has failed to add a join for a VRF.\nVRID %p1%\n VRF Name = %p2%\n

## Message Parameters

Name	Type
p1	sInt32
p2	CharByteArray

## BGP.VPNMgr.LblProcStateCflct

## Description

No description is available.

## Remedy

Gather diagnostics and contact support personnel.

## Severity

Error

## Message Text

The Label Processing is in an inconsistent state.\nVRID %p1%\n Input = %p2%\n Old State = %p3%\n Action = %p4%\n

## Message Parameters

Name	Type
p1	xInt32
p2	xInt8
p3	xInt8
p4	xInt8

## BGP.VPNMgr.AllocMemRVXCntnFail

---

### Description

No description is available.

### Remedy

Free resources.

### Severity

Debug-Summary

### Message Text

Failed to get memory for RVX container.\nVRID %p1%\n

### Message Parameters

Name	Type
p1	sint32

## BGP.VPNMgr.AllocMemRVCntnFail

---

### Description

No description is available.

### Remedy

Free resources.

### Severity

Debug-Summary

### Message Text

Failed to get memory for RV container.\nVRID %p1%\n



## Message Parameters

Name	Type
p1	sInt32

## BGP.VPNMgr.AllocMemNewRtFail

### Description

No description is available.

### Remedy

Free resources. Wait for BVM to retry.

### Severity

Debug-Summary

### Message Text

Failed to get memory for new route.\nVRID %p1%\n Route Size = %p2%\n

## Message Parameters

Name	Type
p1	sInt32
p2	uInt32

## BGP.VPNMgr.RecvBGPRtNoRtTrgt

### Description

No description is available.

### Remedy

Check network configuration.

### Severity

Warning

## Message Text

BVM has received a route from BGP with no Route Targets attached.\nVRID %p1%\n Route Entry = %p2%\n Route address = %p3%\n

## Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	HexByteArray

## BGP.VPNMgr.RecvBGPWthdrRtNotFnd

### Description

No description is available.

### Remedy

None.

### Severity

Info

## Message Text

BVM has received a withdraw from BGP for a route it does not know about.\nVRID %p1%\n Route Entry = %p2%\n Route address = %p3%\n

## Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	HexByteArray

## BGP.VPNMgr.RecvVRF RtRsrcFail

---

### Description

No description is available.

### 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\nfailure.\nVRID %p1%\n VRF name = %p2%\n Route Entry = %p3%\n Route address = %p4%\n

### Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	uInt32
p4	HexByteArray

## BGP.VPNMgr.RecvVRF WthdrRtNotFnd

---

### Description

No description is available.

### Remedy

None.

### Severity

Info

## Message Text

BVM has received a withdraw from a VRF for a route it does not know.\nVRID %p1%\n VRF name = %p2%\n Route Entry = %p3%\n Route address = %p4%\n

## Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	uInt32
p4	HexByteArray

## BGP.VPNMgr.RtProcRVFSMStateCflct

### Description

No description is available.

### Remedy

Gather diagnostics and contact support personnel.

### Severity

Error

## Message Text

The Route Processing RV FSM is in an inconsistent state.\nVRID %p1%\n Input = %p2%\n Old State = %p3%\n Action = %p4%\n

## Message Parameters

Name	Type
p1	sInt32
p2	sInt8
p3	sInt8
p4	sInt8

## BGP.VPNMgr.RtProcRVXFSMStateCflct

---

### Description

No description is available.

### Remedy

Gather diagnostics and contact support personnel.

### Severity

Error

### Message Text

The Route Processing RVX FSM is in an inconsistent state.\nVRID %p1%\n Input = %p2%\n Old State = %p3%\n Action = %p4%\n

### Message Parameters

Name	Type
p1	sint32
p2	sint8
p3	sint8
p4	sint8

## BGP.VPNMgr.EstbXCLbILSPFail

---

### Description

No description is available.

### Remedy

None. DC-BVM will retry the operation.

### Severity

Error

## Message Text

An attempt to establish an XC between a label and an LSP failed.\nVRID %p1%\n BGP label = %p2%\n BGP label type = %p3%\n LSP virtual IF index = %p4%\n

## Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt8
p4	xInt32

## BGP.VPNMgr.EstbXCLbILSPOK

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

## Message Text

An attempt to establish an XC between a label and an LSP succeeded.\nVRID %p1%\n BGP label = %p2%\n BGP label type = %p3%\n LSP virtual IF index = %p4%\n

## Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray
p3	xInt8
p4	xInt32

## BGP.VPNMgr.AllocMemPECBFail

---

### Description

No description is available.

### 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.\nVRID %p1%\n PE address = %p2%\n

### Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray

## BGP.VPNMgr.InitXCCBFail

---

### Description

No description is available.

### Remedy

None. The operation will be retried after a short delay.

### Severity

Debug-Summary

### Message Text

An XC control block could not be initialized.\nVRID %p1%\n XC label = %p2%\n

## Message Parameters

Name	Type
p1	xInt32
p2	HexByteArray

## BGP.VPNMgr.ProcBGPRTsrcFail

### Description

No description is available.

### Remedy

Free resources and wait for BVM to retry.

### Severity

Error

### Message Text

A route received from BGP could not be processed due to a resource\nfailure.\nVRID %p1%\n Route Entry ID = %p2%\n Route address = %p3%\n

## Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	HexByteArray

## BGP.VPNMgr.RecvRmtRtPeerNoActvTunl

### Description

No description is available.

### 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.\nVRID %p1%\n Peer address = %p2%\n

## Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray

## BGP.VPNMgr.ActvTunlAllowPEAvail

## Description

No description is available.

## Remedy

None.

## Severity

Info

## Message Text

A tunnel has been activated allowing a PE to become available once more.\nVRID %p1%\n Peer address = %p2%\n

## Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray

## BGP.VPNMgr.RecvRmtRtBOSFlgNotSet

---

### Description

No description is available.

### 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\n'bottom of stack' flag is not set.\nVRID %p1%\n Peer address = %p2%\n Remote route NLRI = %p3%\n

### Message Parameters

Name	Type
p1	sInt32
p2	VarFmtByteArray
p3	VarFmtByteArray

## BGP.VPNMgr.RmtRtUnavailNoActvTunl

---

### Description

No description is available.

### Remedy

Ensure that an active tunnel to the peer is configured.

### Severity

Warning

### Message Text

Some remote routes have become unavailable because there are\nno longer any active tunnels serving the originating peer.\nVRID %p1%\n Peer address = %p2%\n

## Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray

## BGP.VPNMgr.RecvRtWithRtTrgtFmCE

### Description

No description is available.

### 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.\nVRID %p1%\n VRF name = %p2%\n Route address length = %p3%\n Route address = %p4%\n

## Message Parameters

Name	Type
p1	sInt32
p2	CharByteArray
p3	uInt8
p4	VarFmtByteArray

## BGP.VPNMgr.RecvRtEntNonZeroRtDstng

### Description

No description is available.

### Remedy

None.

## Severity

Debug-Summary

## Message Text

BVM has received a route entry from a partner over an RPI with a \nnon-zero value for the route distinguisher field in the BGP protocol \nspecific information attached.\nVRID %p1%\n Join type = %p2%\n Join index = %p3%\n Route entry ID = %p4%\n Route distinguisher value = %p5%\n

## Message Parameters

Name	Type
p1	sInt32
p2	String
p3	uInt32
p4	uInt32
p5	HexByteArray

## BGP.VPNMgr.AllocMemUserDataCBFail

### Description

No description is available.

### Remedy

Free resources.

### Severity

Debug-Summary

### Message Text

Failed to get memory for QVB\_USER DATA\_CB.\nVRID %p1%\n Route entry ID = %p2%\n User Data Length = %p3%\n

## Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32

## BGP.VPNMgr.ChgUserDataCB

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

User data control block altered.\nVRID %p1%\n User Data CB = %p2%\n Action = %p3%\n Post action ref count = %p4%\n

## Message Parameters

Name	Type
p1	sInt32
p2	Ptr
p3	String
p4	uInt32

## BGP.VPNMgr.RtMgrMstrJoinRstrtAbnd

### Description

No description is available.

## Remedy

None.

## Severity

Error

## Message Text

BVMs master join to an RTM has failed and restart processing has been \nabandoned.\nVRID %p1%\nRTM entity index = %p2%\n

## Message Parameters

Name	Type
p1	slnt32
p2	slnt32

## BGP.VPNMgr.RtMgrRstrtMstrJoinTmout

## Description

No description is available.

## Remedy

None.

## Severity

Error

## Message Text

BVMs master join to an RTM has not restarted within the configured \ntimeout period.\nVRID %p1%\nRTM entity index = %p2%\n

## Message Parameters

Name	Type
p1	slnt32
p2	slnt32

## BGP.VPNMgr.RecvOKRegRspnsVRFRTMgr

### Description

No description is available.

### Remedy

None.

### Severity

Info

### Message Text

BVM has received a successful registration response from a VRF RTM \ninstance.\nVRID %p1%\n VRF name = %p2%\n

### Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray

## BGP.VPNMgr.RcvryProcTmoutBefRtRecv

### Description

No description is available.

### Remedy

Increase the length of the BVM recovery timer.

### Severity

Warning

### Message Text

BVM has timed out recovery processing before all routes have been \nreceived from the VRF RTM instances and from BGP\nVRID %p1%\n

## Message Parameters

Name	Type
p1	sInt32

## BGP.VPNMgr.SetTimerGtrRcvryTimer

### Description

No description is available.

### 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 \nlength of one of the VRF/BGP restart timers is greater than the BVM \nrecovery timer.\nMIB Family ID = %p1%\n MIB Family Name = %p2%\n MIB Field ID = %p3%\n MIB Field Name = %p4%\n MIB Field Value = %p5%\n

## Message Parameters

Name	Type
p1	xInt32
p2	String
p3	xInt32
p4	String
p5	uInt32

## BGP.VPNMgr.RecvRtDupRtTrgt

### Description

No description is available.



## Remedy

None.

## Severity

Warning

## Message Text

BVM has received a route with duplicate RTs attached.\nVRID %p1%\n Route Target value = %p2%\n

## Message Parameters

Name	Type
p1	sInt32
p2	HexByteArray

## BGP.VPNMgr.AllocMemASPathCBAil

## Description

No description is available.

## Remedy

Free resources.

## Severity

Debug-Summary

## Message Text

Failed to get memory for QVB\_AS\_PATH\_CB.\nVRID %p1%\n Route entry ID = %p2%\n AS path Length = %p3%\n

## Message Parameters

Name	Type
p1	sInt32
p2	uInt32
p3	uInt32

## BGP.VPNMgr.ChgASPathCB

---

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

AS path control block altered.\nVRID %p1%\n AS path CB = %p2%\n Action = %p3%\n Post action ref count = %p4%\n

### Message Parameters

Name	Type
p1	sInt32
p2	Ptr
p3	String
p4	uInt32

## BGP.VPNMgr.RecvRtEntMultiNH

---

### Description

No description is available.

### Remedy

Check configuration of DC-BGP's ECMP feature.

### Severity

Error

## Message Text

Multiple next hops received on a route entry from DC-BGP\nVRID %p1%\n Number of next hops received = %p2%\n

## Message Parameters

Name	Type
p1	xInt32
p2	uInt32

## BGP.VPNMgr.AddVRFRTMgrRsrcFail

### Description

No description is available.

### Remedy

Free resources and retry.

### Severity

Debug-Summary

## Message Text

DC-BVM has been unable to add a VRF RTM join due to resource failure. \nVRID %p1%\n VRF name = %p2%\n RTM address type = %p3%\n

## Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	uInt32

## BGP.VPNMgr.AllocMemNtfnBufPoolFail

### Description

No description is available.

## Remedy

Free resources.

## Severity

Debug-Summary

## Message Text

Failed to get memory for a notification buffer pool for an RTM join.\nVRID %p1%\n VRF name = %p2%\n RTM address type = %p3%\n

## Message Parameters

Name	Type
p1	xInt32
p2	CharByteArray
p3	uInt32

## BGP.VPNMgr.AllocMemLbICBFail

## Description

No description is available.

## Remedy

Free resources, the route processing will be attempted agains after a short delay.

## Severity

Debug-Summary

## Message Text

Memory could not be allocated for a label control block.\nVRID %p1%\n

## Message Parameters

Name	Type
p1	xInt32

## BGP.VPNMgr.RecvRmtRtWthdr

### Description

No description is available.

### Remedy

None.

### Severity

Debug-Summary

### Message Text

A remote route has been received which is currently in the process of \nbeing withdrawn.\nVRID %p1%\n\n Route destination address = %p2%\n\n Route next hop address = %p3%\n

### Message Parameters

Name	Type
p1	xInt32
p2	VarFmtByteArray
p3	VarFmtByteArray

# 19 bwMgr Messages

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bwMgr.Critical  
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bwMgr.DebugData

## 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 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

# 20 CDP Messages

---

CDP.DebugSummary  
CDP.AllocMemFail  
CDP.InitDone  
CDP.AddNbrOK  
CDP.AddNbrFail  
CDP.TxPDUFail  
CDP.ParmNull  
CDP.RxPDUDump  
CDP.TxPDUDump  
CDP.AgeOutNbr  
CDP.Trace

## 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

Debug-Summary

### 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	String

## 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

# 21 CES Messages

CES.DebugSummary  
CES.DebugVerbose  
CES.DebugData  
CES.Entry  
CES.Exit  
CES.CfgStaticLblFail  
CES.MPLSAsyncDebug

## CES.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

---

## CES.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

---

## CES.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

## CES.Entry

---

### Description

function entry

### Remedy

none

### Severity

Debug-Verbose

### Message Text

%function%

## Message Parameters

Name	Type
function	String

## CES.Exit

---

### Description

Function exit

### Remedy

none

### Severity

Debug-Verbose

## Message Text

%function%

## Message Parameters

Name	Type
function	String

## CES.CfgStaticLblFail

### Description

A request to create or configure a TDM MPLS PW was rejected due to the reason specified in the log. The most likely cause of this is a change in the MPLS configuration, such as from terminating or restarting the MPLS process, that results in a previously valid label configuration now being deemed invalid.

### Remedy

To resolve this situation, either the range of static labels must be changed to accommodate the TDM MPLS PWs using the "configure mpls label max-static" command, or any conflicting users of the same static labels must be re-configured to use different labels.

### Severity

Warning

## Message Text

TDM PW label configuration for CES %cesName%, PW ID %pwId%, Peer IP %peerIp% was rejected with reason: %reason%

## Message Parameters

Name	Type
cesName	String
pwId	uint32
peerIp	IPAddressN
reason	String

## CES.MPLSAsyncDebug

---

### Description

Generic debug message for CES Asynchronous communications with MPLS.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%message%

### Message Parameters

Name	Type
message	Printf

# 22 CES.TDM Messages

CES.TDM.PWUp  
CES.TDM.PWDown  
CES.TDM.PWStateChg  
CES.TDM.PWAlarmState  
CES.TDM.PWClockStateChg

## CES.TDM.PWUp

### Description

PW is UP and available for passing traffic

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

PW at %peerAddr% on CES %cesName% has come UP

### Message Parameters

Name	Type
cesName	String
peerAddr	String

### Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator



---

## CES.TDM.PWDown

---

### Description

PW has gone down and it is no longer available to pass traffic

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

PW at %peerAddr% on CES %cesName% has gone DOWN

### Message Parameters

Name	Type
cesName	String
peerAddr	String

### Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

---

## CES.TDM.PWStateChg

---

### Description

The PW state has changed.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

## Message Text

PW at %peerAddr% on CES %cesName% state has changed from %oldState% to %newState%

## Message Parameters

Name	Type
cesName	String
peerAddr	String
oldState	String
newState	String

## Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

## CES.TDM.PWAlarmState

### Description

Listed below the descriptions/interpretation of the LRM bits in the control word and the associated fault detected on the TDM PW. Local L-bit (Local attachment circuit Rx fault): This condition occurs when the TDM port in attachment circuit of the CES pseudo-wire is in failure state or is administratively disabled. When the TDM port is in LOS, AIS or LOF condition, the local end of the CES pseudo-wire carries the L-bit in the control word as an indication of the local attachment circuit alarm to the remote end of the pseudo-wire. This condition can be induced by disabling the TDM port administratively. This condition applies for both SAToP and CESoP pseudo-wires. Local R-bit (Local pseudo-wire LOSY state): This condition occurs when the local end of the CES pseudo-wire enters the LOSY state. The CES pseudo-wire enters LOSY state when the packets from the remote end of the CES pseudo-wire are lost in the transit. The local end of the CES pseudo-wire carries the R-bit in the control word as an indication of the remote pseudo-wire fault. The CES pseudo-wire stream from the remote end, carrying L-bit would result in LOSY state in the local end of the CES pseudo-wire. Administratively disabling the CES pseudo-wire in the local end would result in the LOSY state in the remote end of the CES pseudo-wire. This condition applies for both SAToP and CESoP pseudo-wires. Local M-bit (Local attachment circuit Tx fault): This condition occurs when the TDM port in the attachment circuit of the CES pseudo-wire receives remote alarm indication (Rx RAI). The local end of the CES pseudo-wire carries M-bit in the control word to indicate the remote end of the CES pseudo-wire, of the reception of RAI in the local attachment circuit. This condition applies for CESoP pseudo-wires only. Remote L-bit (Remote attachment circuit Rx fault): This condition occurs when the TDM port in attachment circuit of the remote CES pseudo-wire is in failure state or is administratively disabled. The remote end of the CES pseudo-wire carries the L-bit in the control word to the local end of the CES pseudo-wire as an indication of the attachment circuit alarm in the remote end of the CES pseudo-wire. This condition can be induced by disabling the TDM port in the remote end of the CES pseudo-wire administratively. This condition applies for both SAToP and CESoP pseudo-wires. This condition causes AIS or trunk conditioning pattern to be transmitted on the local attachment circuit. Remote R-bit (Remote

attachment circuit LOSY state): This condition occurs when the remote end of the CES pseudo-wire enters the LOSY state. When the packets from the local end of the CES pseudo-wire are lost in transit the remote end of the CES pseudo-wire enters LOSY state. This condition also occurs when the local end of the CES pseudo-wire carries L-bit to indicate the remote end of the CES pseudo-wire, of the fault in the local attachment circuit. When the local end of the CES pseudo-wire is administratively disabled, the remote end of the CES pseudo-wire enters LOSY state. This condition applies for both SAToP and CESoP pseudo-wires. Remote M-bit (Remote attachment circuit Tx fault): This condition occurs when the TDM port in the attachment circuit of the remote CES pseudo-wire receives remote alarm indication (Rx RAI). The remote end of the CES pseudo-wire carries M-bit in the control word to the local end as an indication of the RAI reception by the attachment circuit. This condition applies for CESoP pseudo-wires only. This condition causes RAI to be transmitted on the local attachment circuit.

## Remedy

Listed below the suggestions that can be tried when the PW alarm and the associated fault is detected/transmitted on the TDM PW. Local L-bit(Local attachment circuit Rx fault): The alarms associated with the TDM port in the attachment circuit of the CES pseudo-wire can be referred. The L-bit condition is cleared when the associated TDM port is restored from the failure state. Local R-bit (Local pseudo-wire LOSY state): If this condition occurs and the CES pseudo-wire is not disabled, the reachability of the CES pseudo-wire peer needs to be checked. If the peer is reachable, occurrence of remote end attachment circuit fault (remote L-bit condition) could be referred to. The R-bit condition is cleared when the remote CES pseudo-wire packets are received. Local M-bit (Local attachment circuit Tx fault): If this condition occurs, the alarms associated with the TDM port in the attachment circuit of the CES pseudo-wire can be referred. The M-bit condition is cleared when the associated TDM port stops receiving RAI indication. Remote L-bit (Remote attachment circuit Rx fault): If this condition occurs, the TDM port/attachment circuit alarms in the remote end of the CES pseudo-wire can be referred. The L-bit condition is cleared when the TDM port in the remote end of CES pseudo-wire is restored of the failure state. Remote R-bit (Remote attachment circuit LOSY state): If this condition occurs and the remote end of CES pseudo-wire is not disabled, occurrence of the local end attachment circuit fault (local L-bit condition) could be referred to. If local end of CES pseudo-wire does not carry L-bit, the reachability of the local peer from the remote end of the CES pseudo-wire needs to be checked. The R-bit condition is cleared when the local CES pseudo-wire packets are received in the remote end. Remote M-bit (Remote attachment circuit Tx fault): If this condition occurs, the alarms associated with the TDM port in the attachment circuit of the remote CES pseudo-wire can be referred. The M-bit condition is cleared when the associated TDM port stops receiving RAI indication.

## Severity

Notice

## Message Text

PW at %peerAddr% on CES %cesName% %alarmState% %alarmAction%

## Message Parameters

Name	Type
cesName	String
peerAddr	String
alarmState	String
alarmAction	String

## Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

## CES.TDM.PWClockStateChg

### Description

The Adaptive Clock Recovery recovers TDM service clock based on the CES pseudo-wire packet arrival rate and it has the following operational states: Freerun: This state indicates that the clock recovery has not started. This condition occurs when the CES pseudo-wire configured for clock recovery has not yet received packets from the remote end of the CES pseudo-wire. Holdover: This state indicates that the clock recovery is in holdover mode and not active. In this state, the last stable recovered service clock is used as the clock source. This condition occurs when the CES pseudo-wire configured for clock recovery has switched to LOSY state. Converge: This state indicates that the clock recovery has begun and the recovered service clock is being stabilized. This condition occurs when the CES pseudo-wire configured for clock recovery starts receiving remote CES pseudo-wire packets without significant loss. Normal: This state indicates that the clock recovery has reached stable state in recovering service clock from the CES pseudo-wire packet stream. This condition occurs when the CES pseudo-wire configured for clock recovery keeps receiving remote CES pseudo-wire packets without significant loss. Active: This state indicates that the clock recovery is actively stabilizing the recovered service clock that has deviated due to temporary loss in the CES pseudo-wire packet stream. This condition occurs when the CES pseudo-wire configured for packet recovery switches to LOSY state. When the LOSY state of the CES pseudo-wire prolongs, the clock recovery switches to Holdover when failed to stabilize the recovered service clock.

### Remedy

No action required - Informational message only.

### Severity

Info

## Message Text

CES %cesName% %clockType% clock recovered from %peerAddr% changed state to %clockState%

## Message Parameters

Name	Type
cesName	String
clockType	String
peerAddr	String
clockState	String

## Applicable Platforms

- Summit family switches
- I386 virtual machine switch simulator

# 23 CFM Messages

CFM.InitDone  
CFM.RxPkt  
CFM.RxPktDump  
CFM.AllocSockFail  
CFM.RxPktFail  
CFM.AddIngrFilt  
CFM.DellIngrFilt  
CFM.BndIngrFilt  
CFM.RecvACLClbk  
CFM.RxPktInv  
CFM.RxPktCflct  
CFM.TxPkt  
CFM.TxPktDump  
CFM.TxPktFail  
CFM.TxPktOvrfl  
CFM.CCIEventOcc  
CFM.rMEPEventOcc  
CFM.MEPIDMACChg  
CFM.SameMEPIDRx  
CFM.rMEPExp  
CFM.LTIEventOcc  
CFM.LBIEventOcc  
CFM.RxPktUnk  
CFM.rMEPErrEventOcc  
CFM.MEPXConEventOcc  
CFM.MEPFNGEventOcc  
CFM.MEPExp  
CFM.AddFDBFail  
CFM.DeIFDBFail  
CFM.CreatStaticrMEPFail  
CFM.SendCkptFail  
CFM.CreatThreadFail  
CFM.FrameDlyAlarm  
CFM.ClrFrameDlyAlarm  
CFM.CreatSegFail  
CFM.RxDMPkt  
CFM.VplsDebug

CFM.RxLMRPkt  
 CFM.DtectCFMSegUnavail  
 CFM.DtectCFMSegAvail  
 CFM.TxCCM  
 CFM.RxCCM

## 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
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	slnt

## CFM.BndIngrFilt

### Description

This message gets logged every time an ACL filter needs to be bound to a vpiif.

### 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%, vlanMPCCount %vlanMPCCount%

### Message Parameters

Name	Type
port	SlotPort
vlan	VLAN
agvpif	Ptr
vlanMPCCount	ulnt

## 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 sent to the CPU. Unicast CFM PDUs (not sent 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
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

Name	Type
p4	egressSlotPort
p5	egressSlotPort
p6	egressSlotPort
error	slnt

## 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
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=%ccmrcv%, rmMepwhile=%rmepwhile%
```

## Message Parameters

Name	Type
port	xInt32
vlan	uInt32
type	uInt32
level	uInt32
mepid	uInt16
mac	MAC
event	String
state	String
ccmrcv	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 MP's own MEP-ID was detected on an incoming 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
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 logs all events 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 logs all events 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
event	String
state	String
enable	String
xCCMwhile	uInt32
xCCMrecv	String

## CFM.MEPFNEventOcc

### Description

This message 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%, someRDldefect=%RDlenable%
```

## Message Parameters

Name	Type
port	xInt32
vlan	uInt32
type	uInt32
level	uInt32
event	String
state	String
MACenable	String
fngWhile	uInt32
rMepCCMenable	String
RDlenable	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.DeIFDBFail

### 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.CreatStaticMEPFail

### 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 congestion in 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
maname	String
mdlevel	uint8

# 24 CFM.HwOAM Messages

CFM.HwOAM.RecvClrFault  
CFM.HwOAM.FwdEventNtn  
CFM.HwOAM.SendLMEPReq  
CFM.HwOAM.SendRMEPReq  
CFM.HwOAM.RecvMEPFault  
CFM.HwOAM.RecvMEPCIntReply

## 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
assoc	String
vlanName	String

Name	Type
port	SlotPort
error	String

## CFM.HwOAM.FwdEventNtn

### 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.RecvMEPCIntReply

### Description

Dot1ag receives a reply with status success/failure/timeout for a Client 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



# 25 CFM.Server Messages

CFM.Server.RecvLMEPReq  
CFM.Server.RecvRMEPReq  
CFM.Server.SendMEPReply  
CFM.Server.SendEventNtfn  
CFM.Server.NtfyGrpStatusDown  
CFM.Server.NtfyGrpStatusUp  
CFM.Server.RecvRegGrpReq  
CFM.Server.RecvUnregGrpReq  
CFM.Server.SendRegGrpRspns  
CFM.Server.SendUnregGrpRspns

## 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% CCMIInterval %interval% from the client

### Message Parameters

Name	Type
reqType	String
domain	String
assoc	String

Name	Type
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 necessary 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

# 26 cm Messages

cm.nvramErr  
cm.database  
cm.reqDrop  
cm.replyDrop  
cm.syncErr  
cm.chkpErr  
cm.loadErr  
cm.configSyncErr  
cm.configNotInSync  
cm.extCFNoSpace  
cm.Warning  
cm.Error  
cm.Notice

## 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



Name	Type
objName	String
error	slnt32

## 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 explicit "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 be restored 100%. User could manually examine 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 unexpected 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

---

## 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

# 27 cm.file Messages

---

cm.file.lineTooBig  
cm.file.readErr  
cm.file.writeErr  
cm.file.invalidFmt  
cm.file.openErr  
cm.file.platformErr  
cm.file.configCorrupt  
cm.file.fileNameErr

## 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 occurred.



## 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 occurred.

### 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 occurs 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 occurs 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

# 28 cm.sys Messages

cm.sys.oom  
cm.sys.state  
cm.sys.msgErr  
cm.sys.msgDrop  
cm.sys.msgOkay  
cm.sys.actionErr  
cm.sys.asyncExec

## 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 the specified message from/to the remote peer.

### Remedy

A corrupted message is received from/send to the application. Restart the application or reboot the MSM.

### Severity

Error

### Message Text

Error %action% %msg%: Length %length% Peer %peer% (%name%)

### Message Parameters

Name	Type
action	String
msg	String

Name	Type
length	sInt32
peer	uInt32
name	String

## cm.sys.msgDrop

### Description

Unable to send/process message to/from peer.

### Remedy

Configuration request/reply is not sent successfully, restart the application specified or reboot MSM.

### Severity

Error

### 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.actionErr

### Description

Error while saving or loading the object.

### Remedy

If load failed, please manually apply the command to restore the configuration. If save failed, then the configuration is not saved completely. Might need to save configuration again.

### Severity

Error

### Message Text

Error while %action% \"%obj%\": %msg%

### Message Parameters

Name	Type
action	String
obj	String
msg	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

# 29 cli Messages

cli.logLocalCmd  
cli.logRemoteCmd  
cli.clearflowExecError  
cli.cliOutError  
cli.TermScrpTmout

## cli.logLocalCmd

### Description

User has issued the command locally (serial or internal clearflow execution).

### 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	String
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	String
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.TermScriptTmout

### 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

# 30 cli.Legacy Messages

---

```
cli.Legacy.UninstModAltPartOK
cli.Legacy.UninstModCurPartOK
cli.Legacy.InstModCurPartOK
cli.Legacy.InstModAltPartOK
cli.Legacy.ModInstl
cli.Legacy.ModNotInstl
cli.Legacy.LcnsNotEnbl
```

## cli.Legacy.UninstModAltPartOK

---

### 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.UninstModCurPartOK

---

### Description

Uninstalled request for Legacy CLI module in current Partition is executed successfully

## Remedy

This is a debug log and records every successful 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.

# 31 cli.shell Messages

```
cli.shell.connect
cli.shell.disconnect
cli.shell.executionRecv
cli.shell.completionRecv
cli.shell.executionBegin
cli.shell.executionEnd
cli.shell.completionBegin
cli.shell.completionEnd
cli.shell.idleTimeout
```

## 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 %she11% 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 %she11% 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

# 32 cli.subagent Messages

cli.subagent.connect  
cli.subagent.disconnect

## 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

# 33 DM Messages

---

DM.Critical  
DM.Error  
DM.Warning  
DM.Notice  
DM.Info  
DM.DebugSummary  
DM.DebugVerbose  
DM.DebugData  
DM.DsblSlotShutDown  
DM.DtectRebootLoop  
DM.InitIPMLSrvrFail  
DM.InitIPMLCIntFail  
DM.AllocMemFail  
DM.InPwrUsageChg  
DM.InPwrUsageStrt

## 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 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 initializing 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.InitIPMLCIntFail

### 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

# 34 DM.Card Messages

DM.Card.Critical  
DM.Card.Error  
DM.Card.Warning  
DM.Card.Notice  
DM.Card.Info  
DM.Card.DebugSummary  
DM.Card.DebugVerbose  
DM.Card.DebugData

## 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

# 35 DM.TimeProfile Messages

DM.TimeProfile.DebugSummary  
DM.TimeProfile.DebugVerbose  
DM.TimeProfile.DebugData  
DM.TimeProfile.EnterFnc  
DM.TimeProfile.ModTimer  
DM.TimeProfile.RepEventDtect  
DM.TimeProfile.SendEventActv  
DM.TimeProfile.SendEventExp  
DM.TimeProfile.SendEventInactv  
DM.TimeProfile.RegEvent  
DM.TimeProfile.UnregEvent

## DM.TimeProfile.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.TimeProfile.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.TimeProfile.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.TimeProfile.EnterFnc

### Description

Developer debug. Log when entering a function.

### Remedy

No action required - Informational message only

### Severity

Debug-Verbose

### Message Text

Enter %func%, %info%

## Message Parameters

Name	Type
func	String
info	Printf

## DM.TimeProfile.ModTimer

### Description

Developer debug. Indicates what is happening to the time profile event handler. A duration of 0 indicates canceling the timer.

### Remedy

No action required - Informational message only

### Severity

Debug-Summary

## Message Text

Event timer %action%, duration %duration%

## Message Parameters

Name	Type
action	String
duration	sInt32

## DM.TimeProfile.RepEventDtect

### Description

Developer debug. Indicates that in the calculation of the next event timer, found that so much time has elapsed since the last timer pop that the next event on the list of monitored time profiles requires servicing. This will result in repeating the event processing without another timer pop.

### Remedy

No action required - Informational message only

### Severity

Debug-Summary

### Message Text

Too much time passed between the timer pop and sending events, repeating the event handling for next time profile.

## DM.TimeProfile.SendEventActv

### Description

Indicates that the specified time profile has transitioned to the active state and the interested peer will be sent an event.

### Remedy

No action required - Informational message only

### Severity

Info

## Message Text

Notifying peer %peer% that time profile %timeprofile% is now active.

## Message Parameters

Name	Type
peer	String
timeprofile	String

## DM.TimeProfile.SendEventExp

### Description

Indicates that the specified time profile has transitioned to the expired state and the interested peer will be sent an event.

### Remedy

No action required - Informational message only

### Severity

Info

## Message Text

Notifying peer %peer% that time profile %timeprofile% is now expired.

## Message Parameters

Name	Type
peer	String
timeprofile	String

## DM.TimeProfile.SendEventInactv

### Description

Indicates that the specified time profile has transitioned to the inactive state and the interested peer will be sent an event.

## Remedy

No action required - Informational message only

## Severity

Info

## Message Text

Notifying peer %peer% that time profile %timeprofile% is now inactive.

## Message Parameters

Name	Type
peer	String
timeprofile	String

## DM.TimeProfile.RegEvent

### Description

Indicates that the specified peer has registered to be notified of events for the time profile.

### Remedy

No action required - Informational message only

### Severity

Info

### Message Text

Peer %peer% has registered for events associated with time profile %timeprofile%.

### Message Parameters

Name	Type
peer	String
timeprofile	String

## DM.TimeProfile.UnregEvent

### Description

Indicates that the specified peer has unregistered to be notified of events for the time profile.

### Remedy

No action required - Informational message only

### Severity

Info

### Message Text

Peer %peer% has unregistered for events associated with time profile %timeprofile%.

### Message Parameters

Name	Type
peer	String
timeprofile	String



# 36 DOSProt Messages

---

DOSProt.DuplACLDtect  
DOSProt.AddACLOK  
DOSProt.DelACLOK  
DOSProt.PtrnNotFnd  
DOSProt.DebugSummary  
DOSProt.DebugVerbose  
DOSProt.DebugData  
DOSProt.InitIPMLFail  
DOSProt.SetDOSDevFail  
DOSProt.StartLibFail  
DOSProt.UnExpDevErr  
DOSProt.Init  
DOSProt.PktCntExcd  
DOSProt.CreateACLFail  
DOSProt.ReadBktSizeInv  
DOSProt.RecvNotifyInv

## 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 message 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 message 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 message 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 message 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 logging 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 low 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 logging 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 low 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 logging 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 low 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 successfully allocated, and the application is ready.

### Remedy

This is an informational message and no action is required.

### 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 message and no action is required.

### 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 %struct% size %size%

## Message Parameters

Name	Type
rc	uint
size	uint
struct	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

# 37 ds Messages

---

```
ds.epm_reg_fail
ds.epm_reg_done
ds.rx_serv_fail
ds.oom
ds.calc
ds.entry_inval
ds.init_port
ds.pcfg_init_fail
ds.pcfg_read_fail
ds.clisub_fail
ds.orsub_fail
ds.rx_fail
ds.msg_reg
ds.msg_dereg
ds.msg_lookup
ds.send_fail
ds.pkt_err
ds.lookup_attr
ds.found_entry
```

## 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 connected 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

Directory 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

Successfully 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

# 38 ds.client Messages

---

```
ds.client.start
ds.client.reg_start
ds.client.invalid_entry
ds.client.invalid_attr
ds.client.pkt_err
ds.client.send_fail
ds.client.rx_fail
ds.client.reg_end
ds.client.lookup_start
ds.client.lookup_end
ds.client.query_start
ds.client.query_end
ds.client.dereg_start
ds.client.dereg_end
ds.client.newaddr_start
ds.client.newaddr_end
ds.client.invalid_input
```

## 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

Directory 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

Directory 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

Directory 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

Directory 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

# 39 EAPS Messages

EAPS.Critical  
EAPS.Error  
EAPS.Warning  
EAPS.DmnDebugSummary  
EAPS.DmnDebugVerbose  
EAPS.DmnDebugData  
EAPS.TransPortState  
EAPS.PDURecv  
EAPS.DmnInfo  
EAPS.TransDmnState  
EAPS.DebugSummary  
EAPS.DebugVerbose  
EAPS.DebugData  
EAPS.SyncSkipDomain  
EAPS.SyncTrace  
EAPS.Notification  
EAPS.RxNetTxFail  
EAPS.RxEEPLenInv  
EAPS.RxEEPLenInv  
EAPS.RxPktLenInv  
EAPS.Rx8021QtagInv  
EAPS.RxSNAPInv  
EAPS.RxOUIInv  
EAPS.RxEEPChecksumInv  
EAPS.TxNetTxFail  
EAPS.RxDmnInv  
EAPS.RxLifInv  
EAPS.RxLifDown  
EAPS.RxPduAll  
EAPS.RxAnotherMaster  
EAPS.RxUnconfiguredPort  
EAPS.RxHlthPduPriPort  
EAPS.RxPduHealth  
EAPS.RxPduLinkDown  
EAPS.RxPduRingDnFlush  
EAPS.RxPduRingDnFlushDbg  
EAPS.RxPduRingUpFlush



```
EAPS.RxPduRingUpFlushDbg
EAPS.RxPduFlushFdb
EAPS.RxPduSuspndPrefwdTmr
EAPS.RxPduSuspndPrefwdTmrDbg
EAPS.RxPduQueryLinkStatus
EAPS.RxPduLinkUp
EAPS.RxPduLinkUpDbg
EAPS.RxPduUnknown
EAPS.RxPktVlanInv
EAPS.RxPkt
EAPS.TxPkt
EAPS.DumpTlv
EAPS.DebugCheckpoint
EAPS.FdbFlush
EAPS.StrtProcLinkStateChg
EAPS.StopProcLinkStateChg
EAPS.StrtProcEvent
EAPS.StopProcEvent
EAPS.TracePriority
EAPS.TraceAck
EAPS.DumpSendVlanMgr
EAPS.TransDmnGrpState
EAPS.DtctDmnPriMismatch
EAPS.DmnPriTmout
EAPS.RecvDmnPriTransEvent
EAPS.DmnPriTransEventDone
EAPS.DmnPriTransEventIgn
EAPS.DeqDmnPriEvent
EAPS.CFMRxGrpRmtMEPInfo
EAPS.CFMRxGrpMEPState
EAPS.CFMSgnlFail
EAPS.CFMSgnlFailClr
```

## EAPS.Critical

---

### Description

This message is displayed when a critical error has occurred 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 occurred.

### Remedy

Please contact Extreme Networks with the error message and the conditions under which it occurred.

### 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.PDURcv

### 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
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 occurrence, 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 switches 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 allotted 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 occurrence, 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 occurring constantly, it would need further investigation. Start by capturing the packet and determining 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% recieved 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 occurred 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

# 40 EAPS.SharedPort Messages

---

EAPS.SharedPort.Critical  
EAPS.SharedPort.Error  
EAPS.SharedPort.Warning  
EAPS.SharedPort.PortDebugSummary  
EAPS.SharedPort.PortDebugVerbose  
EAPS.SharedPort.PortDebugData  
EAPS.SharedPort.TransSegState  
EAPS.SharedPort.PDURecv  
EAPS.SharedPort.PortInfo  
EAPS.SharedPort.TransDmnState  
EAPS.SharedPort.TransPortState  
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EAPS.SharedPort.PortWarning  
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EAPS.SharedPort.Info  
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EAPS.SharedPort.DebugSdUpSegUpCount  
EAPS.SharedPort.SdUpSegUpMaxReached  
EAPS.SharedPort.DebugSdUpSegCheckedOff  
EAPS.SharedPort.VldtSegPortUpDone

## EAPS.SharedPort.Critical

---

### Description

This message is displayed when a critical error has occurred 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 occurred.

### Remedy

Please contact Extreme Networks with the error message and the conditions under which it occurred.

### 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 segment 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

Name	Type
domain	String
segUpMax	slnt

## 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

# 41 EDP Messages

EDP.InitFail  
EDP.Error  
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EDP.AgeOutNbr  
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EDP.CreatPDUVerInv  
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EDP.CreatPortFail  
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EDP.PortTimerFail  
EDP.RemPort  
EDP.NoEdpPort  
EDP.SendSwitchPDU  
EDP.CfgAdvInterval  
EDP.CfgTimeout  
EDP.EnableEdp  
EDP.DisableEdp  
EDP.AddNbrPortFail  
EDP.Trace

---

## 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 whihc 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

Name	Type
devID1	xInt
devIDMac	srcMAC

## EDP.AgeOutVLAN

### Description

The database entry for the specified vlan, provided by the EDP node with the sopecified 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 recieved 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

Name	Type
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 infor packet was received with an invalid software bersion from the specified edp node.

### Remedy

Ensure the EDP nodes are running same version of EDP.

### Severity

Warning

### Message Text

Received edp pakcet 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

Warning

## 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 seperated 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 casue 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 maybe 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 an 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
deviceld1	xInt8
deviceld2	xInt8
deviceld	srcMAC
reason	Printf

## EDP.Trace

### Description

Using this condition to trace EDP's code. Used for debugging purposes.

### Remedy

No remedy is available.

### Severity

Debug-Summary

### Message Text

%logMsg%

## Message Parameters

Name	Type
logMsg	Printf

# 42 ELRP Messages

ELRP.DsblPortLoopDtect  
ELRP.EnblPortTimerExp  
ELRP.DebugSummary  
ELRP.NotDsblPortLoopDtect

## 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

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### 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 %eaps%port %port% which is an excluded port. ELRP took no action.

### Message Parameters

Name	Type
port	SlotPort
eaps	String

# 43 ELRP.Report Messages

## ELRP.Report.Message

### 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

# 44 elsm Messages

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elsm.portAdminEnabled  
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elsm.cfgChange  
elsm.helloPlusRx  
elsm.helloMinusRx  
elsm.helloMinusTx  
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elsm.chkpointSent  
elsm.chkpointRecv  
elsm.elsmEnabled  
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elsm.upTimerExp  
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elsm.pifCreated  
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elsm.rxPduWarning  
elsm.debugVerbose  
elsm.verifyPduFailedWarning  
elsm.verifyPduFailed  
elsm.exPktFilterFailure  
elsm.fdbError  
elsm.socketError



elsm.txPduWarning  
 elsm.elsmPortNodeWarning  
 elsm.vlanError  
 elsm.vpifError  
 elsm.nullFunction  
 elsm.libInitError  
 elsm.initError  
 elsm.blockingPort  
 elsm.unblockingPort  
 elsm.configError  
 elsm.debugTimerTrace  
 elsm.debugSetIfState  
 elsm.debugSetIfStateBulk

## 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

Recieved 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

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### 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 until 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 the 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 occurred. 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



Name	Type
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 remedy 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 occurred. 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 occurred 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 occurred 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



# 45 **ems.test** Messages

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ems.test.MsgCrtcl  
ems.test.UintCrtcl  
ems.test.SintCrtcl  
ems.test.XintCrtcl  
ems.test.Xint8Crtcl  
ems.test.Xint16Crtcl  
ems.test.Xint32Crtcl  
ems.test.Xint64Crtcl  
ems.test.Sint64Crtcl  
ems.test.Uint64Crtcl  
ems.test.StringCrtcl  
ems.test.CharCrtcl  
ems.test.BufferCrtcl  
ems.test.SlotCrtcl  
ems.test.PortCrtcl  
ems.test.MacCrtcl  
ems.test.VlanCrtcl  
ems.test.IPCrtcl  
ems.test.IPMaskLCrtcl  
ems.test.IPMaskVCrtcl  
ems.test.L4PortCrtcl  
ems.test.PtrCrtcl  
ems.test.BGPPeerCrtcl  
ems.test.vtagCrtcl  
ems.test.parmsCrtcl  
ems.test.slotPortCrtcl  
ems.test.BGPRouterCrtcl  
ems.test.EAPSCrtcl  
ems.test.Sint8Crtcl  
ems.test.Sint16Crtcl  
ems.test.Sint32Crtcl  
ems.test.Uint8Crtcl  
ems.test.Uint16Crtcl  
ems.test.Uint32Crtcl  
ems.test.MsgError  
ems.test.UintError  
ems.test.SintError

ems.test.XintError  
ems.test.Xint8Error  
ems.test.Xint16Error  
ems.test.Xint32Error  
ems.test.Xint64Error  
ems.test.Sint64Error  
ems.test.Uint64Error  
ems.test.StringError  
ems.test.CharError  
ems.test.BufferError  
ems.test.SlotError  
ems.test.PortError  
ems.test.MacError  
ems.test.VlanError  
ems.test.IPErrror  
ems.test.IPMaskLErrror  
ems.test.IPMaskVError  
ems.test.L4PortError  
ems.test.PtrError  
ems.test.BGPPeerError  
ems.test.vtagError  
ems.test.parmsError  
ems.test.slotPortError  
ems.test.BGPRouterError  
ems.test.EAPSError  
ems.test.Sint8Error  
ems.test.Sint16Error  
ems.test.Sint32Error  
ems.test.Uint8Error  
ems.test.Uint16Error  
ems.test.Uint32Error  
ems.test.MsgWarn  
ems.test.UintWarn  
ems.test.SintWarn  
ems.test.XintWarn  
ems.test.Xint8Warn  
ems.test.Xint16Warn  
ems.test.Xint32Warn  
ems.test.Xint64Warn  
ems.test.Sint64Warn  
ems.test.Uint64Warn  
ems.test.StringWarn



ems.test.CharWarn  
ems.test.BufferWarn  
ems.test.SlotWarn  
ems.test.PortWarn  
ems.test.MacWarn  
ems.test.VlanWarn  
ems.test.IPWarn  
ems.test.IPMaskLWarn  
ems.test.IPMaskVWarn  
ems.test.L4PortWarn  
ems.test.PtrWarn  
ems.test.BGPPeerWarn  
ems.test.vtagWarn  
ems.test.parmsWarn  
ems.test.slotPortWarn  
ems.test.BGPRouterWarn  
ems.test.EAPSWarn  
ems.test.Sint8Warn  
ems.test.Sint16Warn  
ems.test.Sint32Warn  
ems.test.Uint8Warn  
ems.test.Uint16Warn  
ems.test.Uint32Warn  
ems.test.MsgNotice  
ems.test.UintNotice  
ems.test.SintNotice  
ems.test.XintNotice  
ems.test.Xint8Notice  
ems.test.Xint16Notice  
ems.test.Xint32Notice  
ems.test.Xint64Notice  
ems.test.Sint64Notice  
ems.test.Uint64Notice  
ems.test.StringNotice  
ems.test.CharNotice  
ems.test.BufferNotice  
ems.test.SlotNotice  
ems.test.PortNotice  
ems.test.MacNotice  
ems.test.VlanNotice  
ems.test.IPNotice  
ems.test.IPMaskLNotice

ems.test.IPMaskVNotice  
ems.test.L4PortNotice  
ems.test.PtrNotice  
ems.test.BGPPeerNotice  
ems.test.vtagNotice  
ems.test.parmsNotice  
ems.test.slotPortNotice  
ems.test.BGPRouterNotice  
ems.test.EAPSNotice  
ems.test.Sint8Notice  
ems.test.Sint16Notice  
ems.test.Sint32Notice  
ems.test.Uint8Notice  
ems.test.Uint16Notice  
ems.test.Uint32Notice  
ems.test.MsgInfo  
ems.test.UintInfo  
ems.test.SintInfo  
ems.test.XintInfo  
ems.test.Xint8Info  
ems.test.Xint16Info  
ems.test.Xint32Info  
ems.test.Xint64Info  
ems.test.Sint64Info  
ems.test.Uint64Info  
ems.test.StringInfo  
ems.test.CharInfo  
ems.test.BufferInfo  
ems.test.SlotInfo  
ems.test.PortInfo  
ems.test.MacInfo  
ems.test.VlanInfo  
ems.test.IPInfo  
ems.test.IPMaskLInfo  
ems.test.IPMaskVInfo  
ems.test.L4PortInfo  
ems.test.PtrInfo  
ems.test.BGPPeerInfo  
ems.test.vtagInfo  
ems.test.parmsInfo  
ems.test.slotPortInfo  
ems.test.BGPRouterInfo

ems.test.EAPSInfo  
ems.test.Sint8Info  
ems.test.Sint16Info  
ems.test.Sint32Info  
ems.test.Uint8Info  
ems.test.Uint16Info  
ems.test.Uint32Info  
ems.test.MsgDbgSum  
ems.test.UintDbgSum  
ems.test.SintDbgSum  
ems.test.XintDbgSum  
ems.test.Xint8DbgSum  
ems.test.Xint16DbgSum  
ems.test.Xint32DbgSum  
ems.test.Xint64DbgSum  
ems.test.Sint64DbgSum  
ems.test.Uint64DbgSum  
ems.test.StringDbgSum  
ems.test.CharDbgSum  
ems.test.BufferDbgSum  
ems.test.SlotDbgSum  
ems.test.PortDbgSum  
ems.test.MacDbgSum  
ems.test.VlanDbgSum  
ems.test.IPDbgSum  
ems.test.IPMaskLDbgSum  
ems.test.IPMaskVDbgSum  
ems.test.L4PortDbgSum  
ems.test.PtrDbgSum  
ems.test.BGPPeerDbgSum  
ems.test.vtagDbgSum  
ems.test.parmsDbgSum  
ems.test.slotPortDbgSum  
ems.test.BGPRouterDbgSum  
ems.test.EAPSDbgSum  
ems.test.Sint8DbgSum  
ems.test.Sint16DbgSum  
ems.test.Sint32DbgSum  
ems.test.Uint8DbgSum  
ems.test.Uint16DbgSum  
ems.test.Uint32DbgSum  
ems.test.MsgDbgVerb

ems.test.UintDbgVerb  
ems.test.SintDbgVerb  
ems.test.XintDbgVerb  
ems.test.Xint8DbgVerb  
ems.test.Xint16DbgVerb  
ems.test.Xint32DbgVerb  
ems.test.Xint64DbgVerb  
ems.test.Sint64DbgVerb  
ems.test.Uint64DbgVerb  
ems.test.StringDbgVerb  
ems.test.CharDbgVerb  
ems.test.BufferDbgVerb  
ems.test.SlotDbgVerb  
ems.test.PortDbgVerb  
ems.test.MacDbgVerb  
ems.test.VlanDbgVerb  
ems.test.IPDbgVerb  
ems.test.IPMaskLDbgVerb  
ems.test.IPMaskVDbgVerb  
ems.test.L4PortDbgVerb  
ems.test.PtrDbgVerb  
ems.test.BGPPeerDbgVerb  
ems.test.vtagDbgVerb  
ems.test.parmsDbgVerb  
ems.test.slotPortDbgVerb  
ems.test.BGPRouterDbgVerb  
ems.test.EAPSDbgVerb  
ems.test.Sint8DbgVerb  
ems.test.Sint16DbgVerb  
ems.test.Sint32DbgVerb  
ems.test.Uint8DbgVerb  
ems.test.Uint16DbgVerb  
ems.test.Uint32DbgVerb  
ems.test.MsgDbgData  
ems.test.UintDbgData  
ems.test.SintDbgData  
ems.test.XintDbgData  
ems.test.Xint8DbgData  
ems.test.Xint16DbgData  
ems.test.Xint32DbgData  
ems.test.Xint64DbgData  
ems.test.Sint64DbgData

ems.test.Uint64DbgData  
ems.test.StringDbgData  
ems.test.CharDbgData  
ems.test.BufferDbgData  
ems.test.SlotDbgData  
ems.test.PortDbgData  
ems.test.MacDbgData  
ems.test.VlanDbgData  
ems.test.IPDbgData  
ems.test.IPMaskLDbgData  
ems.test.IPMaskVDbgData  
ems.test.L4PortDbgData  
ems.test.PtrDbgData  
ems.test.BGPPeerDbgData  
ems.test.vtagDbgData  
ems.test.parmsDbgData  
ems.test.slotPortDbgData  
ems.test.BGPRouterDbgData  
ems.test.EAPSDbgData  
ems.test.Sint8DbgData  
ems.test.Sint16DbgData  
ems.test.Sint32DbgData  
ems.test.Uint8DbgData  
ems.test.Uint16DbgData  
ems.test.Uint32DbgData  
ems.test.ESRPCrtcl  
ems.test.ESRPError  
ems.test.ESRPWarn  
ems.test.ESRPNotice  
ems.test.ESRPInfo  
ems.test.ESRPDbgSum  
ems.test.ESRPDbgVerb  
ems.test.ESRPDbgData  
ems.test.AddrFamilyCrtcl  
ems.test.AddrFamilyError  
ems.test.AddrFamilyWarn  
ems.test.AddrFamilyNotice  
ems.test.AddrFamilyInfo  
ems.test.AddrFamilyDbgSum  
ems.test.AddrFamilyDbgVerb  
ems.test.AddrFamilyDbgData  
ems.test.IPv6Crtcl

```
ems.test.IPv6ScpdCrtcl
ems.test.IPAddressCrtcl
ems.test.SockAddrCrtcl
ems.test.IPv6Error
ems.test.IPv6ScpdError
ems.test.IPAddressError
ems.test.SockAddrError
ems.test.IPv6Warn
ems.test.IPv6ScpdWarn
ems.test.IPAddressWarn
ems.test.SockAddrWarn
ems.test.IPv6Notice
ems.test.IPv6ScpdNotice
ems.test.IPAddressNotice
ems.test.SockAddrNotice
ems.test.IPv6Info
ems.test.IPv6ScpdInfo
ems.test.IPAddressInfo
ems.test.SockAddrInfo
ems.test.IPv6DbgSum
ems.test.IPv6ScpdDbgSum
ems.test.IPAddressDbgSum
ems.test.SockAddrDbgSum
ems.test.IPv6DbgVerb
ems.test.IPv6ScpdDbgVerb
ems.test.IPAddressDbgVerb
ems.test.SockAddrDbgVerb
ems.test.IPv6DbgData
ems.test.IPv6ScpdDbgData
ems.test.IPAddressDbgData
ems.test.SockAddrDbgData
```

## 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)|4port %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.slotPortCtrl

### Description

This is a test message 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.IPErrror

---

### Description

This is a test message 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

# 46 EPM Messages

---

EPM.dep\_check  
EPM.proc\_exist  
EPM.first  
EPM.next  
EPM.next\_start  
EPM.state  
EPM.fork  
EPM.crash\_rate  
EPM.proc\_conn\_lost  
EPM.timer  
EPM.init\_ipml\_cl  
EPM.init\_ds\_reg  
EPM.init\_ipml\_ser  
EPM.pkt\_err  
EPM.proc\_restart  
EPM.rlimit\_stack  
EPM.rlimit\_data  
EPM.rlimit\_cputime  
EPM.rlimit\_core  
EPM.exec  
EPM.proc\_kill  
EPM.proc\_dead  
EPM.proc\_cantstart  
EPM.proc\_abort  
EPM.epmrc  
EPM.epmdprc  
EPM.clisub  
EPM.orsub  
EPM.all\_shutdown  
EPM.proc\_dir  
EPM.hello\_rate  
EPM.oom  
EPM.work\_q  
EPM.start  
EPM.memzone  
EPM.oomkill  
EPM.wd\_warm\_reset

```
EPM.likely_slept
EPM.reboot
EPM.trial_days_till_expired
EPM.trial_expired
EPM.license_enabled
EPM.license_trial_enabled
EPM.license_error
EPM.license_insuff_sw
EPM.license_insuff_hw
EPM.license_update
EPM.install_status
EPM.uninstall_status
EPM.download_status
EPM.cpu
EPM.reboot_info
EPM.wdg_enable
EPM.wdg_disable
EPM.SendRegPrim
EPM.Trace
EPM.system_stable
EPM.hitless_status
EPM.license_clear
EPM.dirty_config
EPM.scheduled_reboot
EPM.cpu_debug
EPM.UnexpctRebootDtect
EPM.license_EEPROM_error
EPM.EXOSImgExpDate
EPM.EXOSImgExp
EPM.EXOSRebootImgExp
EPM.SSHLcnsNotEnbl
```

## 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 epmmc configuration file, add necessary 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% timeout 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 epmmc 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 epmmc configuration file

### Remedy

Modify epmmc 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	ulnt

## EPM.rlimit\_data

### Description

Invalid data size for process is specified in epirc configuration file

### Remedy

Modify epirc 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	ulnt

## EPM.rlimit\_cputime

### Description

Invalid cpu time for process is specified in epirc configuration file

### Remedy

Modify epirc 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	ulnt

## 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	ulnt

## 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 recommended

### 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

Warning

### 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%. Statistics: green zone %green% yellow %yellow% orange %orange% red %red%

## Message Parameters

Name	Type
name	String
zone	String
prev_zone	String
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

Due 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 situation

### 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

Rebooting with reason %reason%

## Message Parameters

Name	Type
reason	String

# 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\_enabled

---

### Description

No description is available.

### Remedy

notification, no remedy

### Severity

Warning

### Message Text

License level %c11% enabled by user %user%

### Message Parameters

Name	Type
c11	String
user	String

---

## 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

No description is available.

### Remedy

license can not be set, reason specified. It might be that license information on the switch and in Siebel database does not match. Ask customer about jerry show license info current license level, previous license level, current feature packs, previous feature packs, trial enabled and generate Siebel license according to this information.

### Severity

Error

### Message Text

Unable to set license - %reason%

## Message Parameters

Name	Type
reason	String

## 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 %c11%

## Message Parameters

Name	Type
name	String
level	uint
c11	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

Image installation finished with status %status%%reason%

### Message Parameters

Name	Type
status	String
reason	String

---

## EPM.uninstall\_status

---

### Description

No description is available.

### Remedy

notification, no remedy

### Severity

Notice

### Message Text

Image uninstallation finished with status %status%%reason%

## Message Parameters

Name	Type
status	String
reason	String

## 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 period 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 period 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 temporary 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.



# 47 EPM.Client Messages

---

EPM.Client.shutdown\_reg  
EPM.Client.proc\_reg  
EPM.Client.proc\_thread\_msg  
EPM.Client.oom  
EPM.Client.pkt\_err  
EPM.Client.send\_failed  
EPM.Client.keep\_alive  
EPM.Client.keep\_alive\_msg  
EPM.Client.keep\_alive\_th  
EPM.Client.hello\_ack  
EPM.Client.pid\_set  
EPM.Client.statechange\_reg  
EPM.Client.no\_license  
EPM.Client.license\_limit

## 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 sending 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



# 48 EPM.KLM Messages

EPM.KLM.insmod  
EPM.KLM.insmod\_state  
EPM.KLM.doesnt\_exist  
EPM.KLM.insmod\_fail  
EPM.KLM.mod\_unknown  
EPM.KLM.version  
EPM.KLM.rmmod\_fail  
EPM.KLM.exist  
EPM.KLM.rmll  
EPM.KLM.rmmod\_state  
EPM.KLM.rmmod

## 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

# 49 EPM.License Messages

---

EPM.License.Expire  
EPM.license\_error  
EPM.License.Warning  
EPM.License.Notice  
EPM.License.Info  
EPM.License.DebugSummary  
EPM.License.DebugVerbose  
EPM.License.Expire1  
EPM.license\_enabled  
EPM.License.ReadCardObjFail  
EPM.License.WriteCardObjFail  
EPM.License.ReadObjFail  
EPM.License.WriteObjFail

## EPM.License.Expire

---

### 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

Service License is going to expire %date% %noOfDays% %type% %version%



## Message Parameters

Name	Type
date	String
noOfDays	uint32
type	String
version	String

## EPM.license\_error

### Description

No description is available.

### Remedy

license can not be set, reason specified. It might be that license information on the switch and in Siebel database does not match. Ask customer about jerry show license info current license level, previous license level, current feature packs, previous feature packs, trial enabled and generate Siebel license according to this information.

### Severity

Error

### Message Text

Unable to set license - %reason%

### Message Parameters

Name	Type
reason	String

## 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 unexpected 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\_enabled

---

### Description

No description is available.

### Remedy

notification, no remedy

### Severity

Warning

### Message Text

License level %c11% enabled by user %user%

### Message Parameters

Name	Type
c11	String
user	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



# 50 EPM.Msg Messages

---

```
EPM.Msg.timer_thread
EPM.Msg.proc_id_unknown
EPM.Msg.thread_reg
EPM.Msg.thread_dereg
EPM.Msg.proc_ths_dereg
EPM.Msg.proc_unknown
EPM.Msg.th_reg_delay
EPM.Msg.proc_reg
EPM.Msg.proc_kill
EPM.Msg.proc_shutdown
EPM.Msg.proc_start
EPM.Msg.proc_exist
EPM.Msg.proc_hello
EPM.Msg.proc_thhello
EPM.Msg.hello_rate
EPM.Msg.proc_hello_ack
EPM.Msg.proc_nomon
EPM.Msg.state_change
EPM.Msg.send_failed
EPM.Msg.update
EPM.Msg.pkt_no_src
EPM.Msg.pkt_valid
EPM.Msg.pkt_no_msg
EPM.Msg.pkt_oom
EPM.Msg.command
EPM.Msg.thread_hello
EPM.Msg.proc_report
EPM.Msg.likely_slept
```

## 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 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

Info

## Message Text

Unknown Process ID %pid%

## Message Parameters

Name	Type
pid	ulnt

## 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	ulnt
tid	ulnt

## 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	ulnt
tid	ulnt

## 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	ulnt

## EPM.Msg.proc\_unknown

---

### Description

Unknown process; will not be monitored

### Remedy

add process name to epmr configuration file

### Severity

Info

### 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

Info

## 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

Info

## 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\_thello

### 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

Warning

### 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 epmmc 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

# 51 EPM.Upgrade Messages

EPM.Upgrade.DnldImg  
EPM.Upgrade.DnldImgExtMem  
EPM.Upgrade.Fail  
EPM.Upgrade.State  
EPM.Upgrade.NVRAMFail  
EPM.Upgrade.GetFile  
EPM.Upgrade.ReqUnk

## 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

Download image from hostname %hostname% ip address %ipaddress% file name %filename% VR %vrname%

### Message Parameters

Name	Type
hostname	String
ipaddress	String
filename	String
vrname	String

## 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

Download image from file name %filename%

### Message Parameters

Name	Type
filename	String

## EPM.Upgrade.Fail

---

### Description

Upgrade procedure failed.

### Remedy

Two partitions are available for image storage. Try 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

# 52 EPM.UploadEngr Messages

EPM.UploadEngr.Command  
EPM.UploadEngr.Fail

## 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



# 53 EPM.Version Messages

---

EPM.Version.oom  
EPM.Version.vers\_scan  
EPM.Version.vers\_weight  
EPM.Version.dep\_file\_err  
EPM.Version.dep\_load  
EPM.Version.proc\_unkwn  
EPM.Version.vers\_check\_dep  
EPM.Version.vers\_chckstate  
EPM.Version.vers\_exact  
EPM.Version.vers\_range  
EPM.Version.vers\_minplus  
EPM.Version.vers\_uptomax

## 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\_unkwn

### 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

dependency 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

dependency 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

dependency 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

dependency 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

# 54 ERPS Messages

ERPS.DebugSummary  
ERPS.RxPkt  
ERPS.PortState  
ERPS.SendMsgVLANMgrOK  
ERPS.SendMsgFDBFloodOK  
ERPS.SendMsgFDBFlushOK  
ERPS.AllocDataVLANFail  
ERPS.AllocCRUBufFail  
ERPS.InitModFail  
ERPS.PreAllocFailNoAckIndx  
ERPS.AllocRingFail  
ERPS.AllocAsyncCntxtFail  
ERPS.AllocFDBInfoFail  
ERPS.AllocVLANMsgFail  
ERPS.DelSubRingFail  
ERPS.UnregVLANMgrNullParm  
ERPS.RegVLANMgrNullParm  
ERPS.RegVLANPortFail  
ERPS.RegProtoIfFail  
ERPS.UnregVLANPortByHwIdFail  
ERPS.UnregProtoIfFail  
ERPS.SetVLANPortStateParmInv  
ERPS.SetVLANPortStateFail  
ERPS.EnblModFail  
ERPS.EnblSysCtrlFail  
ERPS.PortNotFnd  
ERPS.DataVLANNotFnd  
ERPS.AddFDBFiltFailInvVLAN  
ERPS.SetPortCfgFail  
ERPS.AddCtrlVLANFiltFail  
ERPS.DelCtrlVLANFiltFail  
ERPS.SendPortStateMsgFail  
ERPS.PortNotFndByIndx  
ERPS.RecvNullFlushInfo  
ERPS.RingParmNull  
ERPS.AttachRingCntxtFail  
ERPS.PortNotFndByPortInstc



ERPS.VLANIfNotFnd  
ERPS.VLANPortIfNull  
ERPS.PortStateInv  
ERPS.SetVLANTagFail  
ERPS.CreatNETTxSockFail  
ERPS.UpdtVLANPortStateFail  
ERPS.UncfgRingPortFail  
ERPS.NtfyMcastMgrFail  
ERPS.SetPortFailNullCntxt  
ERPS.UpdtVLANFailNullCntxt  
ERPS.UnblkPortByVLANIdFail  
ERPS.BlkPortByVLANIdFail  
ERPS.UnblkPortByGrpIdFail  
ERPS.BlkPortByGrpIdFail  
ERPS.CreatRingFail  
ERPS.RingNotFnd  
ERPS.MaxNumRingInstcExcd  
ERPS.MEPInstcNotFnd  
ERPS.AddSubRingFailMaxExcd  
ERPS.MEPObjNotFnd  
ERPS.SendRingPortCfgFail  
ERPS.SendVLANMgrMsgFail  
ERPS.DelCtrlVLANFail  
ERPS.AddDataVLANFail  
ERPS.IncrsTxBufSizNETTxFail  
ERPS.IncrsRxBufSizNETTxFail  
ERPS.RecvPktFailSockRxTmout  
ERPS.NoAckRingPortFail  
ERPS.SetPortStateNoGrpIdAck  
ERPS.SetRingPortStateFail  
ERPS.RingIdGrpIdMismatch  
ERPS.CtrlVLANNotFnd  
ERPS.UnregVLANPortIfFail  
ERPS.DelDataVLANFail  
ERPS.VLANApplInfoNotNull  
ERPS.LrnRmtMEP  
ERPS.RmtMEPCntUndfl  
ERPS.CreatCFMMEPAIIOK  
ERPS.DelCFMMEPAIIOK  
ERPS.CreatCFMAssocAckOK  
ERPS.CreatCFMDomainAckOK  
ERPS.SendMEPInfo

```

ERPS.RxRmtMEPInfo
ERPS.RxMEPState
ERPS.AddSubRing
ERPS.RecvCFMSrvrAckInfo
ERPS.UpdtRingPortOK
ERPS.InitReadWritLockFail
ERPS.EnableFail
ERPS.DebugVerbose
ERPS.AddMEPFailMaxExcd
ERPS.RingStateChg
ERPS.ShutdownBegin
ERPS.ShutdownEnd

```

## 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 recieved, 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

Name	Type
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.UnregVLANPortByHwldFail

---

### 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.EnbModFail

### 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.EnbSysCtrlFail

### 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 and '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 status 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 message 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 message to VLAN manager for #vlans %num%

### Message Parameters

Name	Type
num	uint32

## ERPS.DeICtrlVLANFail

---

### 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 and '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.DeIDataVLANFail

### 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.VLANAppInfoNotNull

### 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.CreatCFMMEPAIIOK

---

### 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.DeICFMMEPAIIOK

---

### 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

# 55 ESRP Messages

---

ESRP.DebugMsg  
ESRP.VplsRedundancyDebug  
ESRP.VplsRedundancyVerbose  
ESRP.TimerInfo  
ESRP.InfoMsg

## 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

# 56 ESRP.Aware Messages

ESRP.Aware.procAwareDmnAutoCreate  
ESRP.Aware.procAwareUpdateRecord  
ESRP.Aware.procAwareFwdHello  
ESRP.Aware.AddPortList  
ESRP.Aware.DelPortList  
ESRP.Aware.DropPduNoVlanPorts  
ESRP.Aware.procAwareDeleteRecord

## 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 secnds.

### Remedy

None

### Severity

Info

### Message Text

Deleting awareRecord for Domain: %domainName% Grp: %domainGroup% %info%

## Message Parameters

Name	Type
domainName	String
domainGroup	uint32
info	Printf

# 57 ESRP.InPdu Messages

ESRP.InPdu.procHelloInPdu  
ESRP.InPdu.procHelloInPduDetail  
ESRP.InPdu.procHelloV2InPduDetail  
ESRP.InPdu.procHelloDomainFnd  
ESRP.InPdu.procHelloDomainNotFnd  
ESRP.InPdu.procHelloDomainDisabled  
ESRP.InPdu.procHelloVerMismatch  
ESRP.InPdu.procHelloGrpMismatch  
ESRP.InPdu.procHelloCmpMetrics  
ESRP.InPdu.procHelloV2Handshake

## 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

Name	Type
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
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 incoming 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

Processing 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

# 58 ESRP.Nbr Messages

ESRP.Nbr.procNbrRefresh  
ESRP.Nbr.procNbrMultipleNbr  
ESRP.Nbr.procNbrCleared  
ESRP.Nbr.procNbrUpdateFailed  
ESRP.Nbr.procNbrNewNbr  
ESRP.Nbr.procNbrSequenceNumSkip

## 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 neighbor 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
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

# 59 ESRP.OutPdu Messages

ESRP.OutPdu.procHelloOutPdu  
ESRP.OutPdu.procHelloOutPduDetail  
ESRP.OutPdu.procHelloV2OutPduDetail  
ESRP.OutPdu.procHelloTxPkt

## 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
netType	uint
vid	VLAN-tag
did	uint

Name	Type
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

# 60 ESRP.State Messages

ESRP.State.ToMstr  
ESRP.State.ToSlave  
ESRP.State.ToNtrl  
ESRP.State.ToPremstr  
ESRP.State.MstrToSlave  
ESRP.State.MstrToNtrl  
ESRP.State.ToAware  
ESRP.State.Timer  
ESRP.State.UnexpectedEvent  
ESRP.State.TimerMismatch

## 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



Name	Type
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

Name	Type
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

# 61 ESRP.System Messages

## ESRP.System.timerTicks

### 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

# 62 ESRP.Track Messages

ESRP.Track.Ping  
ESRP.Track.Env  
ESRP.Track.PseudoWire

## 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



# 63 ESRP.Vlan Messages

ESRP.Vlan.RegisterVlan  
ESRP.Vlan.RegisterPort  
ESRP.Vlan.SetFwdVlan  
ESRP.Vlan.SetFwdPort  
ESRP.Vlan.portBlockAck  
ESRP.Vlan.State

## 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

# 64 ESVT Messages

---

ESVT.ARPFail  
ESVT.AC�Fail  
ESVT.SvcFail  
ESVT.Info  
ESVT.DebugSummary  
ESVT.DebugVerbose  
ESVT.DebugData  
ESVT.InitDebug  
ESVT.TxPkt  
ESVT.TxPDUFail  
ESVT.TimerDebug  
ESVT.TxPDUOK  
ESVT.VLANFail  
ESVT.PortFail  
ESVT.SockFail  
ESVT.SendCkptTLVFail

## ESVT.ARPFail

---

### Description

ESVT Arp error message. Related to a ipaddress configuration or port connections needed for ESVT to Arp properly.

### Remedy

Depending on failure reason take appropriate action to fix ARP related issue.

### Severity

Error

### Message Text

%reason%



## Message Parameters

Name	Type
reason	Printf

## ESVT.AC�Fail

### Description

ESVT Acl error message. Related to a software defect or hardware ACL table capacity for ESVT to add or delete Acl's.

### Remedy

Depending on failure reason take appropriate action to fix ACL related issue.

### Severity

Error

### Message Text

%reason%

## Message Parameters

Name	Type
reason	Printf

## ESVT.SvcFail

### Description

ESVT Services warning message. Related to a software defect in the ESVT main code for services.

### Remedy

Depending on failure reason take appropriate action to fix Service related issue

### Severity

Warning

## Message Text

%reason%

## Message Parameters

Name	Type
reason	Printf

## ESVT.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 - Information message only.

### Severity

Info

## Message Text

%reason%

## Message Parameters

Name	Type
reason	Printf

## ESVT.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

%reason%

## Message Parameters

Name	Type
reason	Printf

# ESVT.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

%reason%

## Message Parameters

Name	Type
reason	Printf

---

## ESVT.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

%reason%

### Message Parameters

Name	Type
reason	Printf

---

## ESVT.InitDebug

---

### Description

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

### Remedy

No action required - Information message only.

### Severity

Debug-Summary

### Message Text

%reason%

## Message Parameters

Name	Type
reason	Printf

## ESVT.TxPkt

### Description

A condition has been detected that may interest a developer inspecting the data of packets going out of a port

### Remedy

No action required - Information message only.

### Severity

Debug-Data

### Message Text

Outgoing packet from port `%slotport%` with length `%len%` bytes is

### Message Parameters

Name	Type
slotport	egressSlotPort
ptr	Buf-ptr
len	Buf-len

## ESVT.TxPDUFail

### Description

An ESVT PDU transmit failed due to an unexpected system error

### 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

Error

## Message Text

Transmit PDU Failed from port %portStr%; Reason[%reason%]

## Message Parameters

Name	Type
portStr	String
reason	String

## ESVT.TimerDebug

### Description

Log of timer being started, restarted or stopped (with reason).

### Remedy

No action required - Information message 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

---

## ESVT.TxPDUOK

---

### Description

An ESVT PDU got transmitted Successfully.

### Remedy

No action required - Information message only.

### Severity

Debug-Verbose

### Message Text

Transmit PDU Success for port %slotPort% TxCount %txCount%

### Message Parameters

Name	Type
slotPort	egressSlotPort
txCount	uint32

---

## ESVT.VLANFail

---

### Description

ESVT Vlan error message. Related to a software defect in the ESVT Vlan code.

### Remedy

Depending on failure reason take appropriate action to fix VLAN related issue.

### Severity

Error

### Message Text

Unable to get vlanIf for vlanIfInstance: %vlanIfInstance%

## Message Parameters

Name	Type
vlanIfInstance	xInt32

## ESVT.PortFail

---

### Description

ESVT Port error message. Related to a software defect in the ESVT Port code.

### Remedy

Depending on failure reason take appropriate action to fix PORT related issue.

### Severity

Error

### Message Text

%reason%

## Message Parameters

Name	Type
reason	Printf

## ESVT.SockFail

---

### Description

ESVT Socket error message. Related to a software defect in the ESVT socket code.

### Remedy

Depending on failure reason take appropriate action to fix SOCKET related issue.

### Severity

Error



## Message Text

%reason%

## Message Parameters

Name	Type
reason	Printf

## ESVT.SendCkptTLVFail

### 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	ulnt32
size	ulnt32

# 65 EtherOAM Messages

---

EtherOAM.ReadSockFail  
EtherOAM.AllocSockFail  
EtherOAM.InitTimerFail  
EtherOAM.BindFiltFail  
EtherOAM.DebugSummary  
EtherOAM.DebugVerbose  
EtherOAM.InitOK  
EtherOAM.RxEvent  
EtherOAM.TxEvent  
EtherOAM.CfgPortOK  
EtherOAM.CfgPortFail  
EtherOAM.CfgSysOK  
EtherOAM.CfgSysFail  
EtherOAM.Timer  
EtherOAM.AllocMemFail  
EtherOAM.FndPortFail  
EtherOAM.FndVLANFail  
EtherOAM.BlkPort  
EtherOAM.UnblkPort  
EtherOAM.VLANOperFail  
EtherOAM.RxPDUUnk  
EtherOAM.InitPortOK

## 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 continuously, 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: `%errmsg%`.Return Code : `%retCode%`

### Message Parameters

Name	Type
errmsg	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/functionality 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 occurred. 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 not 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
protold	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

# 66 EtherOAM.InPDU Messages

EtherOAM.InPDU.PDUDump  
EtherOAM.InPDU.PDUSumm  
EtherOAM.InPDU.FlagDetail  
EtherOAM.InPDU.ProcFail  
EtherOAM.InPDU.RxFail  
EtherOAM.InPDU.RxOK

## 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	ulnt
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 globally 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

Name	Type
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

# 67 EtherOAM.OutPDU Messages

EtherOAM.OutPDU.PDUDump  
EtherOAM.OutPDU.PDUSumm  
EtherOAM.OutPDU.FlagDetail  
EtherOAM.OutPDU.TxFail  
EtherOAM.OutPDU.TxOK

## 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

# 68 exsshd Messages

exsshd.RejctConnAccessDeny  
exsshd.DebugVerbose  
exsshd.DebugData

## 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

# 69 ExtLibA Messages

## ExtLibA.DebugSummary

### 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

# 70 ExtLibA.AccessList Messages

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# 71 ExtLibA.ActvRtQuery Messages

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# 72 ExtLibA.BFD Messages

ExtLibA.BFD.InitLibFail  
ExtLibA.BFD.InitRsrcFail  
ExtLibA.BFD.InitOK  
ExtLibA.BFD.DstryOK  
ExtLibA.BFD.BFDIJoinEst  
ExtLibA.BFD.BFDIJoinTerm  
ExtLibA.BFD.BFDIJoinFailOvr  
ExtLibA.BFD.BFDIJoinFail  
ExtLibA.BFD.DropIPSFmUnkPrtnr  
ExtLibA.BFD.CreatSessOK  
ExtLibA.BFD.CreatSessRsrcFail  
ExtLibA.BFD.DstrySessOK  
ExtLibA.BFD.RecvDelReqSessNonExist  
ExtLibA.BFD.SessAttach  
ExtLibA.BFD.SessDtach  
ExtLibA.BFD.SessUp  
ExtLibA.BFD.SessDown  
ExtLibA.BFD.SessAdminDown  
ExtLibA.BFD.NumStateChgExcsc  
ExtLibA.BFD.NumParmChgExcsc  
ExtLibA.BFD.RecvInvMIBMsg  
ExtLibA.BFD.RfusAttachFmUnkJoin  
ExtLibA.BFD.RfusAttachAlrdyAttach  
ExtLibA.BFD.RfusAttachInvPeerAddr  
ExtLibA.BFD.CreatSessIndxExhst  
ExtLibA.BFD.RfusAttachInvSrcAddr  
ExtLibA.BFD.MntnSessStateRstrtJoin  
ExtLibA.BFD.SessRcvryFmRstrtJoinOK  
ExtLibA.BFD.SendClntRegReqFail  
ExtLibA.BFD.EnqueueClntRegReq  
ExtLibA.BFD.SendClntUnregReqFail  
ExtLibA.BFD.EnqueueClntUnregReq  
ExtLibA.BFD.SendSessCreatReqFail  
ExtLibA.BFD.SendSessDelReqFail  
ExtLibA.BFD.GetIfInfoFail  
ExtLibA.BFD.DeISessBySvr

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## 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

Name	Type
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 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 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
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

Name	Type
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.SendCIntRegReqFail

### 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.EnqueueCntRegReq

### 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.EnqueueClntUnregReq

---

### 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	slnt32
p2	slnt32
p3	slnt32

## 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	slnt32
p2	slnt32
p3	slnt32

Name	Type
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 behalf 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
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.AgreeFTIVerForInstcFail  
ExtLibA.EntityMgr.CreatMIBStubFail  
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ExtLibA.EntityMgr.RegNewIfID  
ExtLibA.EntityMgr.CreatImplmCBFail  
ExtLibA.EntityMgr.CreatProdCBFail  
ExtLibA.EntityMgr.CreatRtCBFail  
ExtLibA.EntityMgr.CreatRtSrcCBFail  
ExtLibA.EntityMgr.CreatRtTrgtCBFail  
ExtLibA.EntityMgr.DtectIfRtLoop  
ExtLibA.EntityMgr.DtectUnexpctDrctTransRt  
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ExtLibA.EntityMgr.RegOwnMIBFail  
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ExtLibA.EntityMgr.RecvHwStatFailMsg  
ExtLibA.EntityMgr.MultiEntityRegSameType  
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ExtLibA.EntityMgr.RecvStatFailLocMsg  
ExtLibA.EntityMgr.PrimInstcAbend  
ExtLibA.EntityMgr.BkupInstcAbend  
ExtLibA.EntityMgr.PrimInstcStrt  
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ExtLibA.EntityMgr.MultiCompSuprtReqIf  
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 ExtLibA.EntityMgr.RecvStrtReplayRspns

## 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.CreatEntityTypeCBlockFail

---

### 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.CreatInstCBlockFail

---

### 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
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



Name	Type
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

# 74 ExtLibA.Framework Messages

ExtLibA.Framework.IntFSMErr  
ExtLibA.Framework.MstrJoinFSMFail  
ExtLibA.Framework.SlaveJoinFSMFail  
ExtLibA.Framework.AllocNewCBTypeRsrcFail  
ExtLibA.Framework.BkupFSMErr  
ExtLibA.Framework.RecvRepRspnsBkupNotFnd

## 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

# 75 ExtLibA.IfInfolf Messages

---

ExtLibA.IfInfolf.InitFailRsrcUnavail  
ExtLibA.IfInfolf.TermAbnorm  
ExtLibA.IfInfolf.ActvOK  
ExtLibA.IfInfolf.GetNetIfInfoRsrcUnavail  
ExtLibA.IfInfolf.ProcReqSendRtSockFail  
ExtLibA.IfInfolf.ProcRtMsgRecvRtSockFail  
ExtLibA.IfInfolf.AllocJoinRsrcFail  
ExtLibA.IfInfolf.AllocNetIfRsrcFail  
ExtLibA.IfInfolf.AllocNetAddrRsrcFail  
ExtLibA.IfInfolf.InitFailSockReqFail  
ExtLibA.IfInfolf.AllocTEParmFail  
ExtLibA.IfInfolf.CmpstTEBndllfUnk  
ExtLibA.IfInfolf.AllocRepReqRsrcFail  
ExtLibA.IfInfolf.GetAdaptAddrFail  
ExtLibA.IfInfolf.AllocIfProgJoinRsrcFail  
ExtLibA.IfInfolf.CompLinkIDUnk  
ExtLibA.IfInfolf.CompLinkBndllfIDIncrct  
ExtLibA.IfInfolf.CompLinkRqrQosNotPrvd  
ExtLibA.IfInfolf.SendEmulAddrDstryFail  
ExtLibA.IfInfolf.RtrnNetIfInfoFail  
ExtLibA.IfInfolf.AllocVIfRtInfoMemFail

## ExtLibA.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.CompLinkBndIfIDIncrct

### 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.IfInfolf.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.IfInfolf.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.IfInfolf.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.IfInfolf.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



# 76 ExtLibA.MIBHandler Messages

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ExtLibA.MIBHandler.SysInitRsrcFail  
ExtLibA.MIBHandler.CommCSSRsrcFail  
ExtLibA.MIBHandler.CommCSSFail  
ExtLibA.MIBHandler.FTIActClbkCall  
ExtLibA.MIBHandler.JoinActvClbkCall

## 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

# 77 ExtLibA.MIBSupport Messages

ExtLibA.MIBSupport.IntFSMErr  
ExtLibA.MIBSupport.MIBReqOIDIndxLenUnexpt  
ExtLibA.MIBSupport.ProcMIBMsgRsrcFail  
ExtLibA.MIBSupport.UpdtReadOnlyTbl  
ExtLibA.MIBSupport.RecvMIBTestWhenNotSuprt  
ExtLibA.MIBSupport.MIBReqOIDNotRecog  
ExtLibA.MIBSupport.CreatMIBRowNotSuprtFam  
ExtLibA.MIBSupport.DstryMIBRowNotSuprtFam  
ExtLibA.MIBSupport.MIBReqCflctCurRowState

## 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

# 78 ExtLibA.RtMgr Messages

ExtLibA.RtMgr.InitOK  
ExtLibA.RtMgr.Dstry  
ExtLibA.RtMgr.InitMIBFail  
ExtLibA.RtMgr.InitHAFLibFail  
ExtLibA.RtMgr.InitMIBAllocFail  
ExtLibA.RtMgr.IfacelfVPNMgrRegFail  
ExtLibA.RtMgr.IfacelfVPNMgrRegNotFnd  
ExtLibA.RtMgr.RecvTunIf  
ExtLibA.RtMgr.RecvTunIfDel  
ExtLibA.RtMgr.IfacelfVPNMgrReg  
ExtLibA.RtMgr.IfacelfVPNMgrSendFail  
ExtLibA.RtMgr.TunIfAllocFail  
ExtLibA.RtMgr.LblIfVPNMgrRegFail  
ExtLibA.RtMgr.LblIfVPNMgrRegNotFnd  
ExtLibA.RtMgr.LblIfVPNMgrSendFail  
ExtLibA.RtMgr.RecvVPNLabel  
ExtLibA.RtMgr.RecvVPNLabelDel  
ExtLibA.RtMgr.VPNLabelAllocFail  
ExtLibA.RtMgr.RtProgIfRegFail  
ExtLibA.RtMgr.RtProgIfRegGone  
ExtLibA.RtMgr.RtProgIfRegAllocFail  
ExtLibA.RtMgr.RtProgIfProcRespFail  
ExtLibA.RtMgr.RtProgIfSendFail  
ExtLibA.RtMgr.RtProgIfReg  
ExtLibA.RtMgr.RecvTblStrt  
ExtLibA.RtMgr.RecvTblEnd  
ExtLibA.RtMgr.SendExtStrt  
ExtLibA.RtMgr.SendExtEnd  
ExtLibA.RtMgr.SendTblRpt  
ExtLibA.RtMgr.RecvTblUpdt  
ExtLibA.RtMgr.SendExtRt  
ExtLibA.RtMgr.SendTblUpdtErr  
ExtLibA.RtMgr.ActvRtIfBGPRegFail  
ExtLibA.RtMgr.ActvRtIfBGPRegNotFound  
ExtLibA.RtMgr.BGPRegFail  
ExtLibA.RtMgr.ActvRtIfBGPReg  
ExtLibA.RtMgr.ActvRtIfBGPUreg

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ExtLibA.RtMgr.RejActvRtIfMsgFmOldBGP
ExtLibA.RtMgr.ActvRtIfBGPSendFail
ExtLibA.RtMgr.ProcQueryFmBGP
ExtLibA.RtMgr.RecvRouteInd
ExtLibA.RtMgr.RecvQueryRsp
ExtLibA.RtMgr.DnldRtFail
ExtLibA.RtMgr.DnldRtDone
ExtLibA.RtMgr.WthdrRtFail
ExtLibA.RtMgr.WthdrRtDone
ExtLibA.RtMgr.ImprtPlcyEvalFail
ExtLibA.RtMgr.ImprtPlcyActDeny
ExtLibA.RtMgr.StrtExtRtUpdtFail
ExtLibA.RtMgr.ProcExtRtFail
ExtLibA.RtMgr.ProcExtRtDone
ExtLibA.RtMgr.ExprtPlcyEvalFail
ExtLibA.RtMgr.ExprtPlcyActDeny

```

## 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.IfacelfVPNMgrRegFail

---

### 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.IfacelfVPNMgrRegNotFnd

---

### 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.RecvTunIf

### 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.RecvTunIfDel

### 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.IfacelfVPNMgrReg

### 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.IfacelfVPNMgrSendFail

---

### 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
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.SendTbIRpt

---

### 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
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
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
p5	uInt16
p6	uInt8

# 79 ExtLibA.SampleMIB Messages

ExtLibA.SampleMIB.CreatBGPInc  
ExtLibA.SampleMIB.MIBTestFail  
ExtLibA.SampleMIB.DstryBGPInc

## ExtLibA.SampleMIB.CreatBGPInc

### 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

# 80 ExtLibA.Socket Messages

---

ExtLibA.Socket.InitFail

## 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.

# 81 ExtLibA.SockLib Messages

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## ExtLibA.SockLib.InitFail

### 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.



# 82 ExtLibA.SystemRoot Messages

ExtLibA.SystemRoot.AssrtFailOper  
ExtLibA.SystemRoot.DumpMemToFile  
ExtLibA.SystemRoot.AssrtFail  
ExtLibA.SystemRoot.MsgStreamInv

## 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
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.AsrstFail

---

### 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

# 83 FIP Messages

FIP.DebugSummary  
FIP.DebugVerbose  
FIP.DebugData  
FIP.DelFiltFail  
FIP.EnblFIPsnoop  
FIP.DsblFIPsnoop  
FIP.CfgFCFModeOK  
FIP.CfgFCFModeFail  
FIP.CfgFIPsnoopPortOK  
FIP.CfgFIPsnoopPortFail  
FIP.AddFCFNodeFail  
FIP.DelFCFNodeFail  
FIP.EnblLrnCapFail  
FIP.DsblLrnCapFail  
FIP.AddFrstFiltFail  
FIP.DelFrstFiltFail  
FIP.AddFCFFiltPortFail  
FIP.DelFCFFiltPortFail  
FIP.AddFCFFiltFail  
FIP.DelFCFFiltFail  
FIP.InstlFCFFiltFail  
FIP.UninstlFCFFiltFail  
FIP.AddVNPortFiltOK  
FIP.AddVNPortFiltFail  
FIP.DelVNPortFiltOK  
FIP.DelVNPortFiltFail  
FIP.AddFDBFail  
FIP.DelFDBFail  
FIP.FlushFDBFail  
FIP.CreatFiltOK  
FIP.DelFiltOK  
FIP.InstlFiltOK  
FIP.UninstlFiltOK  
FIP.InstlFiltFail  
FIP.UninstlFiltFail

---

## FIP.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

---

## FIP.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

## FIP.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

## FIP.DeFiltFail

### Description

Failed to delete the ACL in the ACL manager. The failure may happen because ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, and ACL log - "configure log filter DefaultFilter add events [fip | ACL] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

### Severity

Debug-Data

## Message Text

Failed to delete a dynamic ACL %aclName% from the system.

## Message Parameters

Name	Type
aclName	String

## FIP.EnbFIPsnoop

---

### Description

Installed FIP and FCoE ACLs. Only the source MAC address of the accepted FIP and FCOE frames are learned and added to FDB.

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

FIP-snooping in %vlanName% is enabled and the supporting ACLs are installed.

### Message Parameters

Name	Type
vlanName	String

## FIP.DsbFIPsnoop

---

### Description

Uninstalled FIP and FCoE ACLs. The source MAC address of any frames will be learned.

### Remedy

No action required - Informational message only.

## Severity

Info

## Message Text

FIP-snooping in %vlanName% is disabled and the supporting ACLs are installed.

## Message Parameters

Name	Type
vlanName	String

## FIP.CfgFCFModeOK

---

### Description

Successfully switched to the manual or auto update mode of the FCF list.

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

Switched the FCF update mode to %mode% in VLAN %vlanName%.

### Message Parameters

Name	Type
vlanName	String
mode	String

## FIP.CfgFCFModeFail

---

### Description

Failed to switch to FCF update mode. The failure may happen because of the high utilization of the ACL process.



## Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP and ACL log - "configure log filter DefaultFilter add events [fip | ACL] severity debug-data; enable log debug-mode" - and retry when the ACL process has lighter load.

## Severity

Error

## Message Text

Failed to switch the FCF list update mode to %mode% in VLAN %vlanName% due to error %error%.

## Message Parameters

Name	Type
vlanName	String
mode	String
error	String

## FIP.CfgFIPSnoopPortOK

### Description

Successfully changed the port location type that determines the set of ACLs installed.

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

Changed the FIP snooping port location to %loc% for port %port% in VLAN %vlanName%.

## Message Parameters

Name	Type
loc	String
port	String
vlanName	String

## FIP.CfgFIPSnoopPortFail

### Description

Failed to change the port location type that determines the set of ACLs installed. The failure may happen because HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, HAL.IPv4ACL and ACL log - "configure log filter DefaultFilter add events [fip | HAL.IPv4ACL | ACL] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

### Severity

Error

### Message Text

Failed to change the FIP snooping port location to %loc% for port %port% in VLAN %vlanName% due to error %error%.

## Message Parameters

Name	Type
loc	String
port	String
vlanName	String
error	String

## FIP.AddFCFNodeFail

---

### Description

Failed to Add a new FCF entry to the FCF list and the accompanying ACLs and the FDB entry in the VLAN. The failure may happen because ACL manager or FDB manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, FDB and ACL log - "configure log filter DefaultFilter add events [fip | FDB | ACL] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

### Severity

Error

### Message Text

Failed to add a new FCF entry identified by the MAC %mac% to the FCF list on port %port% in VLAN %vlanName% due to error %error%.

### Message Parameters

Name	Type
mac	MAC
port	String
vlanName	String
error	String

## FIP.DeIFCFNodeFail

---

### Description

Failed to delete the FCF entry from the FCF list and the accompanying ACLs and the FDB entry in the VLAN. The failure may happen because ACL manager or FDB manager is busy

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, FDB and ACL log - "configure log filter DefaultFilter add events [fip | FDB | ACL] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

## Severity

Error

## Message Text

Failed to delete the FCF entry identified by the MAC %mac% from the FCF list on port %port% in VLAN %vlanName% due to error %error%.

## Message Parameters

Name	Type
mac	MAC
port	String
vlanName	String
error	String

## FIP.EnbLrnCapFail

### Description

Failed to enable HW learning capability in the VLAN while disabling FIP-snooping. The failure may happen because HAL or VMAN manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, VLAN and HAL.VLAN log - "configure log filter DefaultFilter add events [fip | VLAN | HAL.VLAN] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

## Severity

Error

## Message Text

Failed to enable HW learning capability in VLAN %vlanName% due to error %error%.

## Message Parameters

Name	Type
vlanName	String
error	String

## FIP.DsblLrnCapFail

---

### Description

Failed to disable HW learning capability in the VLAN while enabling FIP-snooping. The failure may happen because HAL or VLAN manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enale FIP, VLAN and HAL.VLAN log - "configure log filter DefaultFilter add events [fip | VLAN | HAL.VLAN] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

### Severity

Error

### Message Text

Failed to disable HW learning capability in VLAN %vlanName% due to error %error%.

### Message Parameters

Name	Type
vlanName	String
error	String

## FIP.AddFrstFiltFail

---

### Description

Failed to install initial ACL entries that blocks all FCoE and FIP frames except the multicasted FIP frames when FIP-snooping is enabled. The failure may happen because the number of installed ACL entries exceeds the limit or HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry after uninstalling ACL entries or when the CPU load is lighter.

## Severity

Error

## Message Text

Failed to add initial ACL entries which are installed when FIP snooping is enabled on port %port% in VLAN %vlanName% due to error %error%.

## Message Parameters

Name	Type
vlanName	String
port	String
error	String

## FIP.DeIFrstFiltFail

### Description

Failed to uninstall ACL entries that blocked all FCoE and FIP frames except the multicasted FIP frames when FIP-snooping is disabled. The failure may happen because HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

## Severity

Error

## Message Text

Failed to delete initial ACL entries which were installed when FIP snooping was enabled on port %port% in VLAN %vlanName% due to error %error%

## Message Parameters

Name	Type
vlanName	String
port	String
error	String

## FIP.AddFCFFiltPortFail

### Description

Failed to add ACL entries that filter frames from/to the known FCFs. The failure may happen because the number of installed ACL entries exceeds the limit or HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry after uninstalling ACL entries or when the CPU load is lighter.

### Severity

Error

### Message Text

Failed to add ACL entries to filter frames from/to the known FCFs on port %port% in VLAN %vlanName% due to error %error%

## Message Parameters

Name	Type
port	String
vlanName	String
error	String

## FIP.DeIFCFFiltPortFail

### Description

Failed to delete ACL entries that filtered frames from/to the known FCFs. The failure may happen because HAL or ACL manager is busy.

## Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

## Severity

Error

## Message Text

Failed to delete ACL entries that filtered frames from/to the known FCFs on port %port% in VLAN %vlanName% due to error %error%

## Message Parameters

Name	Type
port	String
vlanName	String
error	String

## FIP.AddFCFFiltFail

### Description

Failed to add ACL entries to the member ports that filter frames from/to the known FCF. The failure may happen because the number of installed ACL entries exceeds the limit HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry after uninstalling ACL entries or when the CPU load is lighter.

### Severity

Error



## Message Text

Failed to add ACL entries to filter frames from/to the known FCF identified by MAC %mac% to member ports in VLAN %vlanName% due to error %error%

## Message Parameters

Name	Type
mac	MAC
vlanName	String
error	String

## FIP.DeIFCFiltFail

### Description

Failed to delete ACL entries from the member ports that filtered frames from/to the known FCF. The failure may happen because HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

### Severity

Error

## Message Text

Failed to delete ACL entries that filtered frames from/to the known FCF identified by MAC %mac% to member ports in VLAN %vlanName% due to error %error%

## Message Parameters

Name	Type
mac	MAC
vlanName	String
error	String

## FIP.InstlFCFFiltFail

---

### Description

Failed to add ACL entries that filter frames from/to the known FCF. The failure may happen because the number of installed ACL entries exceeds the limit HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry after reducing the number of ACL entries or when the CPU load is lighter.

### Severity

Debug-Summary

### Message Text

Failed to add ACL entries to filter frames from/to the known FCF identified by MAC %mac% on port %port% in VLAN %vlanName% due to error %error%

### Message Parameters

Name	Type
mac	MAC
port	String
vlanName	String
error	String

## FIP.UninstlFCFFiltFail

---

### Description

Failed to delete ACL entries that filtered frames from/to the known FCF. The failure may happen because HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

## Severity

Debug-Summary

## Message Text

Failed to delete ACL entries that filtered frames from/to the known FCF identified by MAC %mac% on port %port% in VLAN %vlanName% due to error %error%

## Message Parameters

Name	Type
mac	MAC
port	String
vlanName	String
error	String

## FIP.AddVNPortFiltOK

### Description

Successfully installed an ACL entry that accepts the FCoE frames between the VN\_Port and the FCF when the FCoE virtual link is established.

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

Added an ACL entry to accepts the FCoE frames between VN\_Port %vnMac% and FCF %fcfMac% on port %port% in VLAN %vlanName%.

### Message Parameters

Name	Type
vnMac	MAC
fcfMac	MAC

Name	Type
port	String
vlanName	String

## FIP.AddVNPortFiltFail

### Description

Failed to add an ACL entry that accepts the FCoE frames between the VN\_Port and the FCF when the FCoE virtual link is established. The failure may happen because the number of installed ACL entries exceeds the limit HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry after uninstalling ACL entries or when the CPU load is lighter.

### Severity

Error

### Message Text

Failed to add an ACL entry to accept the FCoE frames between VN\_Port %vnMac% and FCF %fcfMac% on port %port% in VLAN %vlanName% due to error %error%

### Message Parameters

Name	Type
vnMac	MAC
fcfMac	MAC
port	String
vlanName	String
error	String

## FIP.DeIVNPortFiltOK

### Description

Successfully uninstalled an ACL entry that accepted the FCoE frames between the VN\_Port and the FCF when the FCoE virtual link is cleared or one of the end node is not reachable.

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

Deleted an ACL entry that accepted the FCoE frames between VN\_Port %vnMac% and FCF %fcfMac% on port %port% in VLAN %vlanName%.

### Message Parameters

Name	Type
vnMac	MAC
fcfMac	MAC
port	String
vlanName	String

## FIP.DeIVNPortFiltFail

### Description

Failed to uninstall an ACL entry that accepted the FCoE frames between the VN\_Port and the FCF when the FCoE virtual link is cleared or one of the end node is not reachable. The failure may happen because HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

## Severity

Error

## Message Text

Failed to delete an ACL entry that accepted the FCoE frames between VN\_Port %vnMac% and FCF %fcfMac% on port %port% in VLAN %vlanName% due to error %error%

## Message Parameters

Name	Type
vnMac	MAC
fcfMac	MAC
port	String
vlanName	String
error	String

## FIP.AddFDBFail

### Description

Failed to add an FDB entry when the frame is accepted or the node is added manually. The failure may happen because the number of installed FDB entries exceeds the limit or HAL or FDB manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, FDB and HAL.FDB log - "configure log filter DefaultFilter add events [fip | FDB | HAL.FDB] severity debug-data; enable log debug-mode" - and retry after reducing the number of FDB entries or when the CPU load is lighter.

## Severity

Error

## Message Text

Failed to add an FDB entry %mac% on port %port% in VLAN %vlanName% due to error %error%

## Message Parameters

Name	Type
mac	MAC
port	String
vlanName	String
error	String

## FIP.DeIFDBFail

### Description

Failed to delete an FDB entry when the corresponding node ages out or is deleted manually. The failure may happen because HAL or FDB manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, FDB and HAL.FDB log - "configure log filter DefaultFilter add events [fip | FDB | HAL.FDB] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

### Severity

Debug-Summary

### Message Text

Failed to delete an FDB entry %mac% on port %port% in VLAN %vlanName% due to error %error%

## Message Parameters

Name	Type
mac	MAC
port	String
vlanName	String
error	String

---

## FIP.FlushFDBFail

---

### Description

Failed to flush FDB entries for the VLAN when FIP snooping is enabled or disabled. The failure may happen because HAL or FDB manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, FDB and HAL.FDB log - "configure log filter DefaultFilter add events [fip | FDB | HAL.FDB] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

### Severity

Error

### Message Text

Failed to flush the FDB entries for VLAN %vlanName% due to error %error%

### Message Parameters

Name	Type
vlanName	String
error	String

---

## FIP.CreatFiltOK

---

### Description

Successfully created the ACL in the ACL manager.

### Remedy

No action required - Informational message only.

### Severity

Debug-Data



### Message Text

Created a dynamic ACL %aclName% in the system.

### Message Parameters

Name	Type
aclName	String

---

## FIP.DelFiltOK

### Description

Successfully deleted the ACL in the ACL manager.

### Remedy

No action required - Informational message only.

### Severity

Debug-Data

### Message Text

Deleted a dynamic ACL %aclName% from the system.

### Message Parameters

Name	Type
aclName	String

---

## FIP.InstFiltOK

### Description

Successfully installed the ACL relative to relName on port in the VLAN.

### Remedy

No action required - Informational message only.

## Severity

Debug-Data

## Message Text

Installed a dynamic ACL %aclName% %loc% to %relName% on %port% in VLAN %vlanName%. It is %refCnt% times installation.

## Message Parameters

Name	Type
aclName	String
relName	String
loc	String
port	String
vlanName	String
refCnt	sInt

## FIP.UninstFiltOK

### Description

Successfully uninstalled the ACL on port in the VLAN.

### Remedy

No action required - Informational message only.

## Severity

Debug-Data

## Message Text

Uninstalled a dynamic ACL %aclName% on %port% in VLAN %vlanName%. It is %refCnt% times installed.

## Message Parameters

Name	Type
aclName	String
port	String

Name	Type
vlanName	String
refCnt	slnt

## FIP.InstlFiltFail

### Description

Failed to install an ACL relative to relName on port in the VLAN. The failure may happen because the number of installed ACL entries exceeds the limit or HAL or ACL manager is busy.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry after uninstalling ACL entries or when the CPU load is lighter.

### Severity

Error

### Message Text

Failed to install a dynamic ACL %aclName% %loc% to %relName% on %port% in VLAN %vlanName %.

### Message Parameters

Name	Type
aclName	String
relName	String
loc	String
port	String
vlanName	String

## FIP.UninstFiltFail

### Description

Failed to uninstall the ACL on port in the VLAN. The failure may happen because HAL or ACL manager is busy.

## Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information. Enable FIP, ACL and HAL.IPv4ACL log - "configure log filter DefaultFilter add events [fip | ACL | HAL.IPv4ACL] severity debug-data; enable log debug-mode" - and retry when the CPU load is lighter.

## Severity

Error

## Message Text

Failed to uninstall a dynamic ACL %aclName% on %port% in VLAN %vlanName%.

## Message Parameters

Name	Type
aclName	String
port	String
vlanName	String

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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.StrtFlushRbridge

---

### 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 Rbridge for %rbridge%.

## Message Parameters

Name	Type
rbridge	uint32

## FDB.StopFlushRbridge

---

### 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 Rbridge %rbridge%.

### Message Parameters

Name	Type
rbridge	uint32

## 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

Name	Type
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

# 85 FDB.MACLocking Messages

FDB.MACLocking.FrstArrvLrnLmtRch  
FDB.MACLocking.FirstArrvLrnLmtExcd  
FDB.MACLocking.SetSNMPFail

## 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

# 86 FDB.MACTracking Messages

FDB.MACTracking.MACMove  
FDB.MACTracking.MACAdd  
FDB.MACTracking.MACDel

## 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

# 87 flowvsr Messages

---

flowvsr.err  
flowvsr.warn  
flowvsr.note  
flowvsr.info  
flowvsr.d0  
flowvsr.d1  
flowvsr.d2

## flowvsr.err

---

### Description

A flowvsr serious error. flowvsr service will usually not be functional.

### Remedy

Please contact support personnel

### Severity

Error

### Message Text

%str%

### Message Parameters

Name	Type
str	String

## flowvsr.warn

---

### Description

A flowvsr 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

## flowvsr.note

### Description

A flowvsr notice. Not an error.

### Remedy

No action is necessary.

### Severity

Notice

### Message Text

%str%

### Message Parameters

Name	Type
str	String

---

## flowvsr.info

---

### Description

A flowvsr informational message

### Remedy

No action is necessary.

### Severity

Info

### Message Text

%str%

### Message Parameters

Name	Type
str	String

---

## flowvsr.d0

---

### Description

A flowvsr level 1 debug message

### Remedy

No action is necessary.

### Severity

Debug-Summary

### Message Text

%str%

## Message Parameters

Name	Type
str	String

## flowvsr.d1

---

### Description

A flowvsr level 2 debug message

### Remedy

No action is necessary.

### Severity

Debug-Verbose

### Message Text

%str%

## Message Parameters

Name	Type
str	String

## flowvsr.d2

---

### Description

A flowvsr level 3 debug message

### Remedy

No action is necessary.

### Severity

Debug-Data



## Message Text

%str%

## Message Parameters

Name	Type
str	String

# 88 GTP Messages

GTP.DebugSummary  
GTP.DebugVerbose  
GTP.DebugData  
GTP.ParmInv  
GTP.ERROR

## GTP.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

# 89 GTP.asCapable Messages

---

GTP.asCapable.DebugSummary  
GTP.asCapable.DebugVerbose  
GTP.asCapable.DebugData  
GTP.asCapable.InitSendPdelayReq  
GTP.asCapable.PdelayExcd  
GTP.asCapable.ClockMismatch  
GTP.asCapable.PortMismatch  
GTP.asCapable.SeqIdMismatch  
GTP.asCapable.SeqIdMatch  
GTP.asCapable.ClockMatch  
GTP.asCapable.InvRateRatio  
GTP.asCapable.NegPdelay  
GTP.asCapable.Reset  
GTP.asCapable.PdelayExcdFollowUp  
GTP.asCapable.PdelayExcdIntTmr  
GTP.asCapable.asCapable

## GTP.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

## GTP.asCapable.InitSendPdelayReq

### Description

This condition occurs when the MDPdelayReq state machine enters the INITIAL\_SEND\_PDELAY\_REQ state as described in figure 11-8 of the IEEE 802.1AS-2001 document. The port is initialized to not asCapable.

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

asCapable is %asCapable% => 0, port = %port% : INITIAL\_SEND\_PDELAY\_REQ state

### Message Parameters

Name	Type
asCapable	uint
port	SlotPort

## GTP.asCapable.PdelayExcd

### Description

This condition occurs when the  $\text{currentTime} - \text{pdelayIntervalTime} \geq \text{pdelayTime}$ . 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 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

Info

## 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

## GTP.asCapable.ClockMismatch

### Description

This condition occurs 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

Info

## 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

## GTP.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

Info

## 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

## GTP.asCapable.SeqIdMismatch

### Description

This condition occurs when the Sequence Id in the received pdelay Response message does not match the transmitted Sequence Id (rcvdPdelayRespPtr->SeqId != txPdelayReqPtr->seqId). 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

Info

### Message Text

asCapable is %asCapable% => 0, port = %port%: rcvdPdelayRespPtr->seqId (%rcvSeqId%) != txPdelayReqPtr->seqId (%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

## GTP.asCapable.SeqIdMatch

### Description

This condition occurs when sequence Id in the received pdelay response message 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

Info

### 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

Name	Type
lostResponses	uint16
allowedLostResponses	uint16

## GTP.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

Info

### 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
rcvClock	String
thisClock	String

## GTP.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 currently 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

Info

## Message Text

asCapable is %asCapable% => 0, port = %port%: Invalid neighborRateRatio: WAITING\_FOR\_PDELAY\_INTERVAL\_TIMER state

## Message Parameters

Name	Type
asCapable	uint
port	SlotPort

## GTP.asCapable.NegPdelay

### Description

The condition occurs 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 substituted 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

## GTP.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

Info

### Message Text

asCapable is %asCapable% => 0, port = %port% - PDELAY\_REQ\_STATE\_RESET

### Message Parameters

Name	Type
asCapable	uint
port	SlotPort

## GTP.asCapable.PdelayExcdFollowUp

### 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

Info

### 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
nano1	uint
sec2	uint16
nano2	uint16
lostResponses	uint16
allowedLostResponses	uint16



## GTP.asCapable.PdelayExcdIntTmr

### 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

Info

### 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

## GTP.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

Info

## Message Text

asCapable is %asCapable% => 1, port = %port% : In  
WAITING\_FOR\_PDELAY\_RESP\_INTERVAL\_TIMER state

## Message Parameters

Name	Type
asCapable	uint
port	SlotPort

# 90 Card Messages

Card.Emergency  
Card.Alert  
Card.Critical  
Card.Error  
Card.Warning  
Card.Notice  
Card.Info  
Card.Debug

## Card.Emergency

### Description

The EXOS software 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 software handles a wide range of responsibilities, like protocols, control plane and device management, to name a few. 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: a record of all log messages, 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

## Card.Alert

---

### Description

The EXOS software 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 software handles a wide range of responsibilities, like protocols, control plane and device management, to name a few. 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: a record of all log messages, 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

## Card.Critical

---

### Description

The EXOS software 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 software handles a wide range of responsibilities, like protocols, control plane and device management, to name a few. 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: a record of all log messages, 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

## Card.Error

### Description

The EXOS 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. The EXOS software handles a wide range of responsibilities, like protocols, control plane and device management, to name a few. 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: a record of all log messages, 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

## Card.Warning

### Description

The EXOS software 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 software handles a wide range of responsibilities, like protocols, control plane and device management, to name a few. 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: a record of all log messages, 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

## Card.Notice

### Description

The EXOS software 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

## Card.Info

## Description

The EXOS software 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

## Card.Debug

---

### Description

The EXOS software 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



# 91 HAL Messages

## HAL.Warning

### 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 unexpected 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

# 92 HAL.BOOTP Messages

HAL.BOOTP.DebugVerbose  
HAL.BOOTP.PktRx  
HAL.BOOTP.PktTx  
HAL.BOOTP.Reply

## 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 on port %port%.

## Message Parameters

Name	Type
port	SlotPort
buffer	Buf-ptr
size	Buf-len

## HAL.Bootstrap.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.Bootstrap.Reply

---

### Description

This message is logged every time a Bootstrap 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

Bootstrap reply for %port%, mac %mac%: address %ipaddr%, file \"%name%\".

### Message Parameters

Name	Type
port	SlotPort
mac	MAC
ipaddr	IPN
name	String

# 93 HAL.Card Messages

---

HAL.Card.Critical  
HAL.Card.Error  
HAL.Card.Warning  
HAL.Card.Notice  
HAL.Card.Info  
HAL.Card.DebugSummary  
HAL.Card.DebugVerbose  
HAL.Card.DebugData  
HAL.Card.VersionWarning  
HAL.Card.MasterVersionFailed  
HAL.Card.SetTimeFailed  
HAL.Card.PowerStateError  
HAL.Card.EnblStorAndFwdMode  
HAL.Card.EnblCutThruMode  
HAL.Card.ExtTblMisMatch  
HAL.Card.ExtTblClbrtDataInv  
HAL.Card.RcmdInstlFWUpdt  
HAL.Card.DtectHWVerUnsuprtFWUpdt  
HAL.Card.PortPartMisMatch  
HAL.Card.IOCardWrongForMode  
HAL.Card.FMWrongForMode  
HAL.Card.NoFM  
HAL.Card.IntTblMisMatch  
HAL.Card.DiagXmodMiss

## 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	srclAddress

## 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.EnbIStorAndFwdMode

### 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.EnbICutThruMode

### 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.ExtTbIMisMatch

### 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.RcmdInstFWUpdt

---

### 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. For the configured setting to take effect, save reboot the %slotName%.

## 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.IntTbIMisMatch

### 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

# 94 HAL.Conduit Messages

HAL.Conduit.InsCtrlBlkFail  
HAL.Conduit.RemCtrlBlkFail  
HAL.Conduit.MsgSizInv  
HAL.Conduit.AllocMsgCtrlBlkFail  
HAL.Conduit.SendMsgFail  
HAL.Conduit.SendStateFail  
HAL.Conduit.RecvMsgFail  
HAL.Conduit.AllocMsgCtrlFail  
HAL.Conduit.OpenPipeFail  
HAL.Conduit.WkupThreadFail  
HAL.Conduit.SetSockVRIdFail  
HAL.Conduit.SetSockRcvBufFail  
HAL.Conduit.SetSockNoDlay  
HAL.Conduit.OpenSockFail  
HAL.Conduit.AllocMsgFail  
HAL.Conduit.GetSockFlagFail  
HAL.Conduit.SetNonBlkFlagFail  
HAL.Conduit.SetKeepalive  
HAL.Conduit.CnctSockFail  
HAL.Conduit.SlctSockFail  
HAL.Conduit.CnctRetryExcd  
HAL.Conduit.ConnDeadSlot  
HAL.Conduit.GetSockOptFail  
HAL.Conduit.SockNotRdy  
HAL.Conduit.CnctSockExist  
HAL.Conduit.SockFlagRstor  
HAL.Conduit.SockCtrlBlkCflct  
HAL.Conduit.RecvSockClose  
HAL.Conduit.RecvSockInv  
HAL.Conduit.RegClbkSockInv  
HAL.Conduit.UnregClbkSockInv  
HAL.Conduit.InitArgInv  
HAL.Conduit.AllocCtrlBlkFail  
HAL.Conduit.SendMsgCtrlNull  
HAL.Conduit.MsgCtrlNotInUse  
HAL.Conduit.SlotNumInv  
HAL.Conduit.SlotNotCnct

HAL.Conduit.SendSeqNumOvrfl  
 HAL.Conduit.StateSeqNumOvrfl  
 HAL.Conduit.FndCtrlBlkFail  
 HAL.Conduit.SendReqFail  
 HAL.Conduit.RecvMsgNoRegClbk  
 HAL.Conduit.RecvMsgRtrnCodeDtct  
 HAL.Conduit.RecvMsgSizExcd  
 HAL.Conduit.RecvMsgClbkNotFnd  
 HAL.Conduit.RecvMsgStateFail  
 HAL.Conduit.PollWaitFail  
 HAL.Conduit.PollWaitSlotNotReg  
 HAL.Conduit.InitAlrdyDone  
 HAL.Conduit.RecvSlotErrMsg

## 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 resources associated with a conduit message for slot `%slotId%` conduit type `%conduitType%` failed - resources 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 resources 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 Component 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	slnt
rc	slnt

## 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 returning 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 returning 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.SetSockNoDelay

### 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 returning 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 returning 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
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 returning 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 returning 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 returning 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%` returning errno `%errnoNum%` (`%errnoStr%`) for slot `%slotNo%` and conduit Type `%conduitType%`.

## Message Parameters

Name	Type
slotNo	uint
conduitType	String
sockfd	sInt
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% returning 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% returning 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 - returning 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% returning 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 component 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

Name	Type
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 initialization 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 initialization 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



Name	Type
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 insufficient 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 transmission, 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 acknowledgements 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 notification 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

Name	Type
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

# 95 HAL.Fabric Messages

HAL.Fabric.Critical  
HAL.Fabric.Error  
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HAL.Fabric.DebugData

## 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



# 96 HAL.FDB Messages

HAL.FDB.Error  
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HAL.FDB.EnterAddGlobFilt  
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HAL.FDB.EnterSyncHard  
HAL.FDB.EnterCardInit  
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HAL.FDB.EnterAddPortFilt  
HAL.FDB.EnterDelPortFilt  
HAL.FDB.EnterAddSlotFilt  
HAL.FDB.EnterDelSlotFilt  
HAL.FDB.EnterAddFilt  
HAL.FDB.EnterDelFilt  
HAL.FDB.L2SlotTblFull  
HAL.FDB.L2SlotTblFullEnt  
HAL.FDB.L2GlobTblFull  
HAL.FDB.L2GlobTblFullEnt  
HAL.FDB.MacVlanAddFail  
HAL.FDB.RecvDupMAC  
HAL.FDB.DeleteDynMAC  
HAL.FDB.DeIMACLkupFail

HAL.FDB.AddMACEntFail  
HAL.FDB.AddDynMAC  
HAL.FDB.LkupTxMIFail  
HAL.FDB.PackSlotMsgFail  
HAL.FDB.AllocMemFail  
HAL.FDB.AllocSlotMsgFail  
HAL.FDB.SendSlotMsgFail  
HAL.FDB.ParmNull  
HAL.FDB.VLANIfNull  
HAL.FDB.MACDup  
HAL.FDB.HwVLANIfNull  
HAL.FDB.LkupPortFail  
HAL.FDB.DeIMACEntFail  
HAL.FDB.SlotDown  
HAL.FDB.ParmInv  
HAL.FDB.SendAsyncSlotMsgFail  
HAL.FDB.InsMACEntFail  
HAL.FDB.GetPortInfoFailed  
HAL.FDB.GetVLANInfoFailed  
HAL.FDB.AddOutrMACFail  
HAL.FDB.UpdtOutrMACFail  
HAL.FDB.StrtDelOutrMACFail  
HAL.FDB.CmpltDelOutrMACFail  
HAL.FDB.AddOutrMACDelEntFail  
HAL.FDB.RfrshOutrMACFail  
HAL.FDB.GetOutrMACInfoFail  
HAL.FDB.GetInnrMACInfoFail  
HAL.FDB.APIFail  
HAL.FDB.MsgQueHigh  
HAL.FDB.MsgQueLow

## 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.

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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.EnterDeISlotFilt

## 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.L2SlotTbIFull

### 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.L2SlotTbIFullEnt" 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 %s1ot%. Hardware Table full.

### Message Parameters

Name	Type
slot	sInt

## HAL.FDB.L2SlotTbIFullEnt

### 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 Table full.

## Message Parameters

Name	Type
MACAddress	MAC
vlanId	VLAN-tag
slot	slot

## HAL.FDB.L2GlobTbIFull

### 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.L2GlobTbIFullEnt" 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.L2GlobTbIFullEnt

### 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 received 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
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.DeIMAClkupFail

### 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

Name	Type
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.DeIMACEntFail

### 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
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 parameters 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.CmplDelOutrMACFail

### 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 parameters 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 be 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

# 97 HAL.IPv4ACL Messages

---

HAL.IPv4ACL.Error  
HAL.IPv4ACL.Warning  
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HAL.IPv4ACL.DebugSummary  
HAL.IPv4ACL.DebugVerbose  
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HAL.IPv4ACL.LkupVLANFail  
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HAL.IPv4ACL.DelDynRuleFail  
HAL.IPv4ACL.DelPolRuleFail  
HAL.IPv4ACL.LkupTCAMIndexFail  
HAL.IPv4ACL.CreatHwCntFail  
HAL.IPv4ACL.DelHwCntFail  
HAL.IPv4ACL.ClrHwCntFail  
HAL.IPv4ACL.GetHwCntFail  
HAL.IPv4ACL.AddHwRuleFail  
HAL.IPv4ACL.DelHwRuleFail  
HAL.IPv4ACL.LkupRuleFail  
HAL.IPv4ACL.LkupInstFail  
HAL.IPv4ACL.SyncSlotTmout

## 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 messages 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 %1en% 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.DeIDynRuleFail

### 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

# 98 HAL.IPv4Adj Messages

HAL.IPv4Adj.Error  
HAL.IPv4Adj.Warning  
HAL.IPv4Adj.Notice  
HAL.IPv4Adj.Info  
HAL.IPv4Adj.DebugSummary  
HAL.IPv4Adj.DebugVerbose  
HAL.IPv4Adj.DebugData  
HAL.IPv4Adj.L3TbIFull  
HAL.IPv4Adj.RmtHostL3TbIFull  
HAL.IPv4Adj.NHTbIFull  
HAL.IPv4Adj.MapSlotUnitFail  
HAL.IPv4Adj.VLANAppDataNull  
HAL.IPv4Adj.AllocAdjEntFail  
HAL.IPv4Adj.HRCRtInv  
HAL.IPv4Adj.AdjEntNull  
HAL.IPv4Adj.L3TbIFullEnt  
HAL.IPv4Adj.RmtHostL3TbIFullEnt  
HAL.IPv4Adj.NHTbIFullEnt  
HAL.IPv4Adj.BatchDebugSummary  
HAL.IPv4Adj.NHDebugSummary  
HAL.IPv4Adj.BatchInfo

## 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 unexpected 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

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

### Severity

Notice

### Message Text

adj %ipAddr%: %msg%

### Message Parameters

Name	Type
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

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

### Severity

Info

### Message Text

vrlD %vrId% adj %ipAddr%: %msg%

## Message Parameters

Name	Type
vrlId	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

vrlId %vrId% adj %ipAddr%: %msg%

## Message Parameters

Name	Type
vrlId	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

```
vrlD %vrId% adj %ipAddr%: %msg%
```

## Message Parameters

Name	Type
vrlD	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

```
vrlD %vrId% adj %ipAddr%: %msg%
```



## Message Parameters

Name	Type
vrlId	VRID
ipAddr	IP
msg	Printf

## HAL.IPv4Adj.L3TbIFull

### 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.L3TbIFullEnt" 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.RmtHostL3TbIFull

### 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.NHTbIFull

---

### 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.NHTbIFullEnt" 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 occurred. 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

vrlId %vrlId% adj %ipAddr%: unable to get unit number for slot %slotNo% to %msg%.

### Message Parameters

Name	Type
vrlId	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

vrlD %vrlD% adj %ipAddr%: No appSpecificPtr to add IP Adjacency - MAC %mac% on VLAN %vlan%.

## Message Parameters

Name	Type
vrlD	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

vrlD %vrlD% adj %ipAddr%: No memory for IP Adjacency VLAN ID %vlanId% MAC %mac%.

## Message Parameters

Name	Type
vrlD	VRID
ipAddr	IP
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.L3TbIFullEnt

### 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.RmtHostL3TbIFullEnt

### 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

vrlD %vrlD% IPv4 unicast remote host entry %ipAddr% not added. Hardware L3 Table full. %msg%

## Message Parameters

Name	Type
vrlD	VRID
ipAddr	IP
msg	Printf

## HAL.IPv4Adj.NHTbIFullEnt

### 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

vrlD %vrlD% IPv4 unicast entry %ipAddr% not added. Hardware Next Hop Table full.

## Message Parameters

Name	Type
vrlId	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

# 99 HAL.IPv4FIB Messages

HAL.IPv4FIB.Error  
HAL.IPv4FIB.Warning  
HAL.IPv4FIB.Notice  
HAL.IPv4FIB.Info  
HAL.IPv4FIB.DebugSummary  
HAL.IPv4FIB.DebugVerbose  
HAL.IPv4FIB.DebugData  
HAL.IPv4FIB.LPMTbIFull  
HAL.IPv4FIB.ECMPTbIFull  
HAL.IPv4FIB.ECMPTbIFullEntNoVR  
HAL.IPv4FIB.uRPFECMPTbIFull  
HAL.IPv4FIB.LPMTbIFullEnt  
HAL.IPv4FIB.ECMPTbIFullEnt  
HAL.IPv4FIB.ECMPMaxGw  
HAL.IPv4FIB.BatchDebugSummary  
HAL.IPv4FIB.BatchInfo  
HAL.IPv4FIB.RtDebugSummary  
HAL.IPv4FIB.BatchDebugVerbose  
HAL.IPv4FIB.AllocBatchBufFail  
HAL.IPv4FIB.StrtBatchOperFail  
HAL.IPv4FIB.ExpctBatchBuf  
HAL.IPv4FIB.ExpctNoBatchBuf  
HAL.IPv4FIB.FndShortInstlRtFail  
HAL.IPv4FIB.FndLongUninstlRtFail  
HAL.IPv4FIB.ChkLPMShdwFail  
HAL.IPv4FIB.LPMTbIAldyEmpty  
HAL.IPv4FIB.StrtIPFDBMode  
HAL.IPv4FIB.StopIPFDBMode

## 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

```
vrlid %vrlid% dest %destAddr%:%maskLen% nexthop %nexthop%: %msg%
```

## Message Parameters

Name	Type
vrlid	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

```
vrlid %vrlid% 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

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

### 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

## 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

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

### Severity

Info

### Message Text

vrlid %vrlid% dest %destAddr%:%maskLen% nexthop %nexthop%: %msg%

### Message Parameters

Name	Type
vrlid	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

Name	Type
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.ECMPTbIFullEntNoVR

### 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.uRPFECMPTbIFull

### 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 member 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 %v1% 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.LPMTbIFullEnt

### 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.ECMPTbIFullEnt

### 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

Name	Type
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 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

## 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 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.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 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.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 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	uint

## HAL.IPv4FIB.FndShortInstIRtFail

### 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.FndLongUninstIRtFail

---

### 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 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

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

# 100 HAL.IPv4Mc Messages

HAL.IPv4Mc.Error  
HAL.IPv4Mc.Warning  
HAL.IPv4Mc.Notice  
HAL.IPv4Mc.Info  
HAL.IPv4Mc.DebugSummary  
HAL.IPv4Mc.DebugVerbose  
HAL.IPv4Mc.DebugData  
HAL.IPv4Mc.L3TbIFull  
HAL.IPv4Mc.GrpTbIFull  
HAL.IPv4Mc.GrpScale  
HAL.IPv4Mc.FwdModeChg  
HAL.IPv4Mc.CopyIPMCEntry  
HAL.IPv4Mc.DelIPMCGroupOnly  
HAL.IPv4Mc.SetIPMCEntry  
HAL.IPv4Mc.DelIPMCEntry  
HAL.IPv4Mc.AddIPMCEntry  
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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 unexpected 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.L3TbIFull

### 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.L3TbIFullEnt" 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
sourceIpAdress	IPAddrN
groupIpAdress	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.DelIPMCEnter

---

### 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.AddIPMCEnter

---

### 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.PendingChkptSnd

### 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.DeIL3Port

---

### 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
sourceIpAdress	IPAddrN
groupIpAdress	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
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

Name	Type
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.DeIFMIPMCEntFail

---

### 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
sourceIpAdress	IPAddrN
groupIpAdress	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

Name	Type
vrid	VRID
sourceIpAddress	IPAddrN
groupIpAddress	IPAddrN
IPMCGroupIndex	uint32
errorCode	uint32

## HAL.IPv4Mc.L3TbIFullEnt

### 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	IPAddrN
groupIpAddress	IPAddrN
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.DeIPVLANCache

### 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,vlnst (%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.

# 101 HAL.IPv6Adj Messages

---

HAL.IPv6Adj.Error  
HAL.IPv6Adj.Warning  
HAL.IPv6Adj.Notice  
HAL.IPv6Adj.Info  
HAL.IPv6Adj.DebugSummary  
HAL.IPv6Adj.DebugVerbose  
HAL.IPv6Adj.DebugData  
HAL.IPv6Adj.NHTbIFull  
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HAL.IPv6Adj.AllocAdjEntFail  
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HAL.IPv6Adj.ExpctHRCNull  
HAL.IPv6Adj.NHTbIFullEnt  
HAL.IPv6Adj.BatchDebugSummary  
HAL.IPv6Adj.BatchInfo  
HAL.IPv6Adj.NHDebugSummary

## HAL.IPv6Adj.Error

---

### Description

Warning messages for IPv6 Adjacencies

### Remedy

No remedy is available.

### Severity

Error

### Message Text

adj %ip6Addr%: %msg%

## Message Parameters

Name	Type
ip6Addr	IPv6
msg	Printf

## HAL.IPv6Adj.Warning

### Description

Error messages for IPv6 Adjacencies

### Remedy

No remedy is available.

### Severity

Warning

### Message Text

adj %ip6Addr%: %msg%

## Message Parameters

Name	Type
ip6Addr	IPv6
msg	Printf

## HAL.IPv6Adj.Notice

### Description

Error messages for IP6 Adjacencies

### Remedy

No remedy is available.

### Severity

Notice

## Message Text

adj %ip6Addr%: %msg%

## Message Parameters

Name	Type
ip6Addr	IPv6
msg	Printf

## HAL.IPv6Adj.Info

### Description

Error messages for IPv6 Adjacencies

### Remedy

No remedy is available.

### 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

vrlD %vrId% adj %ip6Addr%: %msg%

## Message Parameters

Name	Type
vrlD	VRID
ip6Addr	IPv6
msg	Printf

## HAL.IPv6Adj.DebugVerbose

### Description

Error messages for IPv6 Adjacencies

### Remedy

No remedy is available.

### Severity

Debug-Verbose

### Message Text

vrlD %vrId% adj %ip6Addr%: %msg%

### Message Parameters

Name	Type
vrlD	VRID
ip6Addr	IPv6
msg	Printf

## HAL.IPv6Adj.DebugData

---

### Description

Error messages for IPv6 Adjacencies

### Remedy

No remedy is available.

### Severity

Debug-Data

### Message Text

vrlD %vrlD% adj %ip6Addr%: %msg%

### Message Parameters

Name	Type
vrlD	VRID
ip6Addr	IPv6
msg	Printf

## HAL.IPv6Adj.NHTbIFull

---

### 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.NHTbIFullEnt" 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 occurred. 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

vrlD %vrlD% adj %ipAddr%: No appSpecificPtr to add Ip Adj - MAC %mac% on VLAN %vlan%.

## Message Parameters

Name	Type
vrlD	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

vrlD %vrlD% adj %ipAddr%: No memory for Ip Adj VLAN ID %vlanId% MAC %mac%.



## Message Parameters

Name	Type
vrlId	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

vrlId %vrlId% adj %ipAddr%: Add had mixed results. %succeeded% succeeded, %failed% failed (rc %errorString%)

## Message Parameters

Name	Type
vrlId	VRID
ipAddr	IPv6
succeeded	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.NHTbIFullEnt

### 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

vrlId %vrlId% IPv6 unicast entry %ip6Addr% not added. Hardware Next Hop Table full.

## Message Parameters

Name	Type
vrlId	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

# 102 HAL.IPv6FIB Messages

---

HAL.IPv6FIB.Error  
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HAL.IPv6FIB.LPMTbIFull  
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HAL.IPv6FIB.LongMskTbIFullEnt  
HAL.IPv6FIB.LongMskTbINotAvail  
HAL.IPv6FIB.LongMskUsrVRNoSuprt  
HAL.IPv6FIB.ECMPTbIFull  
HAL.IPv6FIB.ECMPTbIFullEnt  
HAL.IPv6FIB.ECMPMaxGw

## HAL.IPv6FIB.Error

---

### Description

Error messages for IPv6 FIB

### Remedy

No remedy is available.

### Severity

Error

## Message Text

vrlid %vrlId% dest %destAddr% / %maskLen% nexthop %nexthop%: %msg%

## Message Parameters

Name	Type
vrlid	uint32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

## HAL.IPv6FIB.Warning

### Description

Warning messages for IPv6 FIB

### Remedy

No remedy is available.

### Severity

Warning

### Message Text

vrlid %vrlId% dest %destAddr% / %maskLen% nexthop %nexthop%: %msg%

### Message Parameters

Name	Type
vrlid	uint32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

## HAL.IPv6FIB.Notice

---

### Description

Notice messages for IPv6 FIB

### Remedy

No remedy is available.

### Severity

Notice

### Message Text

vrlId %vrlId% dest %destAddr% / %maskLen% nexthop %nexthop% : %msg%

### Message Parameters

Name	Type
vrlId	uint32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

## HAL.IPv6FIB.Info

---

### Description

Info messages for IPv6 FIB

### Remedy

No remedy is available.

### Severity

Info

## Message Text

vrlid %vrlid% dest %destAddr% / %maskLen% nexthop %nexthop%: %msg%

## Message Parameters

Name	Type
vrlid	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

vrlid %vrlid% dest %destAddr% / %maskLen% nexthop %nexthop% : %msg%

## Message Parameters

Name	Type
vrlid	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

vrlid %vrlid% dest %destAddr% / %maskLen% nexthop %nexthop% : %msg%

### Message Parameters

Name	Type
vrlid	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

```
vrlid %vrlid% dest %destAddr% / %maskLen% nexthop %nexthop% : %msg%
```

## Message Parameters

Name	Type
vrlid	uint32
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6
msg	Printf

## HAL.IPv6FIB.LPMTbIFull

### 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.LPMTbIFullEnt" 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

Info

### Message Text

IPv6 route not added to hardware. Hardware LPM Table full.

## HAL.IPv6FIB.LPMTbFullEnt

### 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 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 %destAddr%/%maskLen% nexthop %nexthop% not added to hardware. Hardware LPM Table full.

### Message Parameters

Name	Type
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

Info messages for IPv6 FIB Batch operation

### Remedy

No remedy is available.

### Severity

Info

### Message Text

%msg%

### Message Parameters

Name	Type
msg	Printf

## HAL.IPv6FIB.BatchDebugSummary

---

### Description

Debug messages for IPv6 FIB Batch operation.

### 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.LongMskTbIFull

### 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.LongMskTbIFullEnt" 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.LongMskTbIFullEnt

### 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 %destAddr%/%maskLen% nexthop %nexthop% not added. Long Mask Hardware Table full.

## Message Parameters

Name	Type
destAddr	dstIPv6
maskLen	IPmasklen
nexthop	IPv6

## HAL.IPv6FIB.LongMskTbINotAvail

### 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.LongMskTbIFullEnt" 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.ECMPTbIFull

---

### 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.ECMPTbIFullEnt" 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.ECMPTbIFullEnt

### 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.L2McTbIFullEnt
HAL.IPv6Mc.L2McScale
HAL.IPv6Mc.SuggestL2McCompress

```

## 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 unexpected 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.L3TbIFull

### 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.L3TbIFullEnt" 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.GrpTbIFull

---

### 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.GrpTbIFullEnt" 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.SetIPMCEnter

### 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.DelIPMCEnter

---

### 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.AddIPMCEnter

---

### 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.DeIL3Port

---

### 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
sourceIpAdress	IPAddrN
groupIpAdress	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
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

Name	Type
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.DeIFMIIngrPortFail

### 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.DeIFMIPMCEntFail

---

### 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
sourceIpAdress	IPAddrN
groupIpAdress	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

Name	Type
vrid	VRID
sourceIpAddress	IPAddrN
groupIpAddress	IPAddrN
IPMCGroupIndex	uint32
errorCode	uint32

## HAL.IPv6Mc.L3TbIFullEnt

### 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	IPAddrN
groupIpAddress	IPAddrN
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.DeIPVLANCache

### 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,vlnst (%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.L2McTbIFullEnt

### 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.



# 104 HAL.IPv6Tunnel Messages

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# 105 HAL.LAG Messages

HAL.LAG.DebugSummary  
HAL.LAG.DebugVerbose  
HAL.LAG.Error  
HAL.LAG.AllocStrucFail  
HAL.LAG.CfgHashFail  
HAL.LAG.CfgFail  
HAL.LAG.CfgNoUcastHashFail  
HAL.LAG.Warning

## 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	slnt32
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	slnt32
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 unexpected 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

# 106 HAL.Mirror Messages

---

HAL.Mirror.Error  
HAL.Mirror.Info  
HAL.Mirror.DebugSummary  
HAL.Mirror.DebugVerbose  
HAL.Mirror.UpdtTrunkVLANFiltFail  
HAL.Mirror.UpdtVLANFiltFail  
HAL.Mirror.CfgVLANPortFiltFail  
HAL.Mirror.InitCndtFail  
HAL.Mirror.CndtEventNull  
HAL.Mirror.MirTypeUnk  
HAL.Mirror.MirInfoInv  
HAL.Mirror.SendAsyncMsgFail  
HAL.Mirror.SendVLANPortMsgFail  
HAL.Mirror.AllocVLANPortMsgFail  
HAL.Mirror.AllocVLANMsgFail  
HAL.Mirror.AllocPortMsgFail  
HAL.Mirror.AllocEnbMsgFail  
HAL.Mirror.AllocVLANDisblFail  
HAL.Mirror.FndMirToPortFail  
HAL.Mirror.FndVLANFail  
HAL.Mirror.FndMirVLANFail  
HAL.Mirror.MirVLANHWDataNull  
HAL.Mirror.FndPortFail  
HAL.Mirror.FndPortSendMsgFail  
HAL.Mirror.FndVLANPortFail  
HAL.Mirror.FndVLANPortSendMsgFail  
HAL.Mirror.TrunkHWDataNull

## 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



# 107 HAL.MPLS Messages

HAL.MPLS.Error  
HAL.MPLS.ilmClear  
HAL.MPLS.ilmClearInst  
HAL.MPLS.ilmGetAllocd  
HAL.MPLS.ilmGetRespData  
HAL.MPLS.ErrorIImGetStat  
HAL.MPLS.API  
HAL.MPLS.Info  
HAL.MPLS.Critical  
HAL.MPLS.ProcMsgVerInv  
HAL.MPLS.InitCndtFail  
HAL.MPLS.AllocMsgFail  
HAL.MPLS.SendAsyncMsgFail  
HAL.MPLS.SendMsgFail  
HAL.MPLS.PIFNotSuprt  
HAL.MPLS.NHLFEPParamNull  
HAL.MPLS.NHLFENbrNull  
HAL.MPLS.PWFIBNextHopNull  
HAL.MPLS.PWNHLFEFIBNextHopInv  
HAL.MPLS.FIBNextHopPWNull  
HAL.MPLS.FIBNextHopNotSuprt  
HAL.MPLS.LblCntNotSuprt  
HAL.MPLS.FIBNextHopInv  
HAL.MPLS.FIBNextHopNHLFENull  
HAL.MPLS.ILMVLANNNotFnd  
HAL.MPLS.ILMPWNNotFnd  
HAL.MPLS.ILMNextHopInv  
HAL.MPLS.ILMNHLFENotFnd  
HAL.MPLS.AllocILMFIBNextHopFail  
HAL.MPLS.ILMFIBNextHopInv  
HAL.MPLS.PWNHLFENotFnd  
HAL.MPLS.AllocPWFIBNextHopFail  
HAL.MPLS.PWVLANNNotFnd  
HAL.MPLS.AllocOutLblIndxFail  
HAL.MPLS.AllocOutVCIndxFail  
HAL.MPLS.PWDup  
HAL.MPLS.PWOutLblDup

```
HAL.MPLS.AllocPWFail
HAL.MPLS.IPv4NbrDup
HAL.MPLS.IPv6NbrDup
HAL.MPLS.NextHopAddrInv
HAL.MPLS.NHLFEFIBNextHopInv
HAL.MPLS.NHLFEDup
HAL.MPLS.ILMDup
HAL.MPLS.ReplILMToNHNotSuprt
HAL.MPLS.ReplILMFromNHNotSuprt
HAL.MPLS.AllocL2EncapFail
HAL.MPLS.AllocOutLblFail
HAL.MPLS.AllocNHLFEFail
HAL.MPLS.AllocILMFail
HAL.MPLS.ILMExist
HAL.MPLS.ClrTCAMStatsFail
HAL.MPLS.RslvTCAMHndIFail
HAL.MPLS.ILMParamInv
HAL.MPLS.ILMNotFnd
HAL.MPLS.AllocILMStatsMsgFail
HAL.MPLS.ILMTblEmpty
HAL.MPLS.PWFIBNextHopInv
HAL.MPLS.AllocIPv4NextHopFail
```

## 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.ErrorIImGetStat

### 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 debugging. Please provide the error code along with "show tech" to Technical Support.

### Severity

Critical

### Message Text

Conduit initialization 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.NHLFEParmNull

### 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.PWOutLbIDup

### 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.AllocOutLbIFail

### 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

Name	Type
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.RslvTCAMHndIFail

### 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

# 108 HAL.Msg Messages

HAL.Msg.Critical  
HAL.Msg.Error  
HAL.Msg.Warning  
HAL.Msg.Notice  
HAL.Msg.Info  
HAL.Msg.DebugSummary  
HAL.Msg.DebugVerbose  
HAL.Msg.DebugData

## 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

# 109 HAL.NetClock Messages

HAL.NetClock.DebugSummary  
HAL.NetClock.DebugVerbose  
HAL.NetClock.DebugData  
HAL.NetClock.ClockModHwMiss

## 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.

# 110 HAL.OAM Messages

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```
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## 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 does, 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.EnbIHwCFMFail

---

### 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 does, 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 association (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 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.DeHwMAFail

---

### Description

This message is generated when an attempt to delete a maintenance association 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 HWA OAM database.

## HAL.OAM.UpdtHwMDFail

---

### Description

This message is generated when an attempt to update a maintenance domain fails because 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 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 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.DeIHwMEPFail

### Description

This message is generated when an attempt to delete a maintenance domain 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 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
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 database.

### 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 database.

### 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

Name	Type
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

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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 remedy 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 `%msgType%` 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 remedy 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 remedy 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 flooding 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 flooding 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 flooding 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 flooding 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 flooding 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 Network 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 Network 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 Network 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.EnbIFail

### 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.DsbIFail

---

### 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-`%s1ot%` for 802.1ah.

## Message Parameters

Name	Type
slot	Slot

## Applicable Platforms

- I386 virtual machine switch simulator

## HAL.PBB.MaxTunIRch

### 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.TunIdxInv

---

### 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.TunOperFail

---

### 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 remedy 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 remedy 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 is for debugging problems related to memory allocation for PBB Tunnels. This is normal and does not indicate a problem.

### Remedy

There is no remedy 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.AllocEncapIdxTrace

### Description

This message is for debugging problems related to Encap Index allocation for PBB Tunnels. This is normal and does not indicate a problem.

### Remedy

There is no remedy 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.AllocTunIndxTrace

---

### Description

This message is for debugging problems related to Tunnel Index allocation for PBB Tunnels. This is normal and does not indicate a problem.

### Remedy

There is no remedy 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.AllocTunMsgFail

---

### 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 is 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 remedy 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 occurred 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 is for debugging problems related to PBB Tunnels Finite State Machine. This is normal and does not indicate a problem.

### Remedy

There is no remedy 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 is 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 remedy 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

This message is 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 remedy 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 communication 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 is 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 remedy 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 is 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 remedy 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 is 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 remedy 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 be 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 communication 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

# 112 HAL.Port Messages

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## HAL.Port.CableNotCompatPlatType

### 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 congestion 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.ClrQoSStatsFail

### 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 error 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.GBICFEFIDsbI

---

### 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 %fefePortMap% error %errorCode%

## Message Parameters

Name	Type
fefePortMap	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 %fefePortMap% 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 occurred 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 occurred 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

# 113 HAL.PTP Messages

HAL.PTP.DebugSummary  
HAL.PTP.DebugVerbose  
HAL.PTP.DebugData  
HAL.PTP.Error  
HAL.PTP.HwNotDtect  
HAL.PTP.InstlHwFiltTblFull

## 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.InstHwFiltTblFull

---

### 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

# 114 HAL.QOS Messages

HAL.QOS.EnterFnc  
HAL.QOS.QosCmdUnsuprt  
HAL.QOS.SlotInv  
HAL.QOS.PortInv  
HAL.QOS.ExitFnc  
HAL.QOS.CndtEventNull  
HAL.QOS.CndtInitFail  
HAL.QOS.ConduitEventAllocFail  
HAL.QOS.CndtSendFail  
HAL.QOS.SlotPortInv  
HAL.QOS.DebugSummary

## 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

# 115 HAL.RateLimit Messages

---

HAL.RateLimit.Critical  
HAL.RateLimit.Error  
HAL.RateLimit.Warning  
HAL.RateLimit.Notice  
HAL.RateLimit.Info  
HAL.RateLimit.DebugSummary  
HAL.RateLimit.DebugVerbose  
HAL.RateLimit.DebugData  
HAL.RateLimit.InitSlotFail  
HAL.RateLimit.InitMeterTbl  
HAL.RateLimit.CreatMeterExist  
HAL.RateLimit.AllocMeterFail  
HAL.RateLimit.CfgMeterNotExist  
HAL.RateLimit.DelMeterNotExist  
HAL.RateLimit.CfgMeter  
HAL.RateLimit.DelMeterInuse  
HAL.RateLimit.ClrMeterNotExist  
HAL.RateLimit.GetMeter  
HAL.RateLimit.GetMeterNoACL  
HAL.RateLimit.CreatMeterLmtExcd  
HAL.RateLimit.SyncMeterFail  
HAL.RateLimit.AllocSlotMsgFail  
HAL.RateLimit.SendCfgMsgSlotFail  
HAL.RateLimit.HookArgNull  
HAL.RateLimit.GetStatsFail  
HAL.RateLimit.CfgSlotFail  
HAL.RateLimit.AddACLMeterNotExist  
HAL.RateLimit.AddACLMeterNotCfg  
HAL.RateLimit.CfgMeterVlanNotExist

## 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 unexpected 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 messages 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 for 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 operation 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 `%1en%` 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 operation to configure a meter to rate-limit flood-traffic on a vlan failed. VLAN configuration is not in sync between vlan, acl and HAI.

## 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



# 116 HAL.RateShape Messages

HAL.RateShape.CreateIndxFail  
HAL.RateShape.AllocIndxTMUnitNumInv  
HAL.RateShape.AllocIndxFail  
HAL.RateShape.FreeIndxTMUnitNumInv  
HAL.RateShape.FreeIndxFail  
HAL.RateShape.PopIndxTMUnitNumInv  
HAL.RateShape.PopIndxFail

## 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

# 117 HAL.ReachNXT Messages

HAL.ReachNXT.DebugVerbose  
HAL.ReachNXT.Add  
HAL.ReachNXT.Del  
HAL.ReachNXT.DtectLmt

## 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



# 118 HAL.sFlow Messages

HAL.sFlow.FndHndlFail  
HAL.sFlow.FndParmFail  
HAL.sFlow.InitMMCNdtFail  
HAL.sFlow.CndtEventNull  
HAL.sFlow.AllocCndtFail  
HAL.sFlow.SendCndtMsgFail  
HAL.sFlow.DebugVerbose  
HAL.sFlow.DebugData  
HAL.sFlow.DebugSummary

## HAL.sFlow.FndHndlFail

### Description

Error occurred 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 occurred 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

# 119 HAL.SM Messages

---

HAL.SM.Critical  
HAL.SM.Error  
HAL.SM.Warning  
HAL.SM.Notice  
HAL.SM.Info  
HAL.SM.DebugSummary  
HAL.SM.DebugVerbose  
HAL.SM.DebugData  
HAL.SM.ChanDsbl  
HAL.SM.ChanRstor  
HAL.SM.InstlStaticEntFail  
HAL.SM.InitTrunkFail  
HAL.SM.InstlFiltFail  
HAL.SM.CtrlPathReroute  
HAL.SM.SlowPathReroute  
HAL.SM.CtrlPathRstor  
HAL.SM.SlowPathRstor

## 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.InstFiltFail

### 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

# 120 HAL.SyncE Messages

HAL.SyncE.DebugSummary  
HAL.SyncE.DebugVerbose  
HAL.SyncE.DebugData

## 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

# 121 HAL.Sys Messages

HAL.Sys.Error  
HAL.Sys.Warning  
HAL.Sys.Notice  
HAL.Sys.Info  
HAL.Sys.DebugSummary  
HAL.Sys.DebugVerbose  
HAL.Sys.DebugData  
HAL.Sys.MasterPFCFailed  
HAL.Sys.NoBackupPFC  
HAL.Sys.NoPFCOperational  
HAL.Sys.SetBackupPFCtoMaster  
HAL.Sys.SetMasterPFCFailed  
HAL.Sys.BackupPFCFailed  
HAL.Sys.GetPFCMastershipFailed  
HAL.Sys.PFCMastershipInitFailed  
HAL.Sys.OtherPFCFailed  
HAL.Sys.PFCVersionTooOld  
HAL.Sys.CardInVoltNorm  
HAL.Sys.CardInVoltHigh  
HAL.Sys.CardInVoltLow  
HAL.Sys.ReadFanTrayTempFail  
HAL.Sys.ParsePwrFanCtrlMsgFail  
HAL.Sys.uCtrlMsgBufSizExcd  
HAL.Sys.InitFanTrayFail  
HAL.Sys.FanTrayFail  
HAL.Sys.UpgrdFanTrayStrt  
HAL.Sys.UpgrdFanTrayDone  
HAL.Sys.ShutDwnTempRangeExcd  
HAL.Sys.ReadPFCTempFail  
HAL.Sys.TempCritical  
HAL.Sys.IntPortDown  
HAL.Sys.FanTrayCommTimeout  
HAL.Sys.FanTrayCommTimeoutNotif  
HAL.Sys.FanTrayCommRestoreNotif  
HAL.Sys.TempWarning  
HAL.Sys.HCExtTbl  
HAL.Sys.HCPrCSSRECC

HAL.Sys.PktMemOvrCmmt  
 HAL.Sys.PktMemTxSizBlk  
 HAL.Sys.AltStkOptCardSlotEmpty  
 HAL.Sys.RebootOverHeat

## 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 unexpected 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 `##s1otNo%`

## 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 minimum 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 been 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 damages, 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 occurred 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	ulnt
fanTray	ulnt

### 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 message 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.



# 122 HAL.SysHC Messages

---

HAL.SysHC.InitDone  
HAL.SysHC.CompFail  
HAL.SysHC.CompFailDetail  
HAL.SysHC.DebugSummary  
HAL.SysHC.ErrCntExcdNormRange  
HAL.SysHC.RAMUsage  
HAL.SysHC.ClockFreqNormRangeExcd  
HAL.SysHC.PktPrccsrExcpt

## 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 occurring 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

# 123 HAL.Transceiver Messages

HAL.Transceiver.DebugSummary  
HAL.Transceiver.DebugVerbose  
HAL.Transceiver.DebugData  
HAL.Transceiver.Rstrct  
HAL.Transceiver.Trial  
HAL.Transceiver.TrialStrt  
HAL.Transceiver.TrialExp  
HAL.Transceiver.TrialExpPort  
HAL.Transceiver.TrialRemn

## 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.Transceiver.Rstrct

### Description

An unsupported high speed transceiver is attached to a port, and the '3rd Party Optics' feature license has not been installed. The transceiver bandwidth has been restricted.

### 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 transceiver has been restricted to %restrict\_val%.

## Message Parameters

Name	Type
slo_po	SlotPort
restrict_val	String

## HAL.Transceiver.Trial

### Description

An unsupported high speed transceiver is attached to a port, and the '3rd Party Optics' feature license has not been installed. The trial period for unsupported high speed transceivers is active, after which the transceiver will be 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 which has been attached to port %slo\_po% is unsupported and unlicensed. The %trial\_days% day trial period for unsupported high speed transceivers has %days\_left% remaining.

## Message Parameters

Name	Type
slo_po	SlotPort
days_left	String
trial_days	uint

## HAL.Transceiver.TrialStrt

### Description

An unsupported and unlicensed high speed transceiver has been detected, and the '3rd Party Optics' feature license has not been installed. The trial period for unlicensed high speed transceivers has begun, after which all unlicensed high speed transceivers will be restricted to 25 percent of capacity.

### Remedy

Use supported transceivers 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

An unlicensed high speed transceiver has been detected and the %trial\_days% day trial period for all unlicensed high speed transceivers has begun.

## Message Parameters

Name	Type
trial_days	uint

## HAL.Transceiver.TrialExp

### Description

The trial period for unsupported and unlicensed high speed transceivers has expired, and the '3rd Party Optics' feature license has not been installed. All unlicensed high speed transceivers will be restricted to 25 percent of capacity the next time the respective port(s) is/are enabled.

### Remedy

Use supported transceivers 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 %trial\_days% day trial period for unsupported and unlicensed high speed transceivers has expired. Unlicensed high speed transceivers will be restricted to 25 percent of capacity the next time the respective port(s) is/are enabled.

## Message Parameters

Name	Type
trial_days	uint

## HAL.Transceiver.TrialExpPort

### Description

The trial period for unsupported and unlicensed high speed transceivers has expired, and the '3rd Party Optics' feature license has not been installed. All unlicensed high speed transceivers will be restricted to 25 percent of capacity the next time the port is enabled.

## Remedy

Use supported transceivers 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, and the %trial\_days% day trial period has expired. The transceiver will be restricted to %restrict\_val% the next time the port is enabled.

## Message Parameters

Name	Type
slo_po	SlotPort
restrict_val	String
trial_days	uint

## HAL.Transceiver.TrialRemn

### Description

An unsupported and unlicensed high speed transceiver is attached to a port, and the '3rd Party Optics' feature license has not been installed. The trial period for unlicensed high speed transceivers is active, after which the transceiver will be 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 %trial\_days% day trial period for unsupported and unlicensed high speed transceivers is active, and has %days\_left% remaining.

## Message Parameters

Name	Type
days_left	String
trial_days	uint

# 124 HAL.TRILL Messages

HAL.TRILL.DebugVerbose  
HAL.TRILL.API  
HAL.TRILL.VRIdDebugSummary  
HAL.TRILL.NextHopDebugSummary  
HAL.TRILL.AdjNull  
HAL.TRILL.VLANIfNull  
HAL.TRILL.AllocFail  
HAL.TRILL.FreeFail  
HAL.TRILL.NextHopTbIFullEnt  
HAL.TRILL.VLANIfHwInfoNull  
HAL.TRILL.BatchDebugSummary  
HAL.TRILL.BatchInfo  
HAL.TRILL.NextHopFreeEntFail  
HAL.TRILL.AddDtreeNextHopEntFail

## HAL.TRILL.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.TRILL.API

---

### Description

The Hardware Abstraction Layer has received a command to configure some TRILL 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 TRILL API.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%format%

### Message Parameters

Name	Type
format	Printf

## HAL.TRILL.VRIdDebugSummary

---

### 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

vrlId %vrlId% : %msg%

## Message Parameters

Name	Type
vrlId	VRID
msg	Printf

## HAL.TRILL.NextHopDebugSummary

### 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

adj for Nickname %nickName%: %msg%

## Message Parameters

Name	Type
nickName	xInt16
msg	Printf

## HAL.TRILL.AdjNull

### Description

Null adjacency is received when Non-Null adjacency entry is expected.



## Remedy

This implies memory corruption or a problem in TRILL HAL layer. Increase the log severity to highest for TRILL HAL and collect more data.

## Severity

Error

## Message Text

vrlId %vrlId%: Adjacency is Null for Nickname:%nickName%.

## Message Parameters

Name	Type
vrlId	VRID
nickName	xInt16

## HAL.TRILL.VLANifNull

### Description

Either caller handed the wrong argument or the VLAN 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

Error

### Message Text

VLAN Interface is NULL for VLAN Instance %vlanInst%, Nickname:%nickName%.

### Message Parameters

Name	Type
vlanInst	uint32
nickName	xInt16

---

## HAL.TRILL.AllocFail

---

### Description

The allocation of memory resource 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. This is a rare internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "show memory".

### Severity

Error

### Message Text

No memory for %resource%.

### Message Parameters

Name	Type
resource	String

---

## HAL.TRILL.FreeFail

---

### Description

The deallocation of memory resource 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 free an internal system resource.

### Remedy

This is a rare internal condition needing technical assistance. Contact technical support with the following information: "show tech" and "show memory".

### Severity

Error

## Message Text

Could not free memory for %resource%.

## Message Parameters

Name	Type
resource	String

## HAL.TRILL.NextHopTblFullEnt

### Description

The hardware Next Hop Table full, and a TRILL egress object entry could not be added. The Next Hop table is shared by IPv4 and IPv6 unicast host entries.

### Remedy

The command "show iproute reserved-entries statistics" shows hardware table utilization, including counts of IPv4 and IPv6 unicast hosts "debug hal show platform trill fib" can be used to determine which entries were not added to hardware. Entries added to hardware have the 'F' flag set. This is a rare condition. The problem may be resolved by deleting some configurations, retrying the operation or a reboot.

### Severity

Warning

## Message Text

TRILL Next Hop entry for %nickName% not added. Hardware Next Hop Table full.

## Message Parameters

Name	Type
nickName	xInt16

## HAL.TRILL.VLANIfHwInfoNull

### Description

The VLAN interface didn't have the hardware specific information.

## Remedy

Undo and redo the configuration after the current activities complete.

## Severity

Error

## Message Text

No hardware specific information on VLAN %vlan%.

## Message Parameters

Name	Type
vlan	VLAN-tag

## HAL.TRILL.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

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

%msg%

## Message Parameters

Name	Type
msg	Printf

---

## HAL.TRILL.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

---

## HAL.TRILL.NextHopFreeEntFail

---

### Description

TRILL Next Hop table entry could not be deleted.

### Remedy

This is a rare condition. The problem may be resolved by retrying the operation or a reboot.

### Severity

Warning

### Message Text

Failed to free TRILL Next Hop table entry for Nickname:%nickName%

## Message Parameters

Name	Type
nickName	xInt16

## HAL.TRILL.AddDtreeNextHopEntFail

### Description

TRILL Dtree Next Hop table entry could not be added.

### Remedy

This is a rare condition. The problem may be resolved by restarting the links for the Next Hop or by issuing 'disable trill' command followed by 'enable trill'.

### Severity

Error

### Message Text

Dtree nexthop entry failed to get added for Nickname:%nickName%, VLAN ID:%vlanId%

## Message Parameters

Name	Type
nickName	xInt16
vlanId	VLAN-tag

# 125 HAL.Tunl Messages

HAL.Tunl.Error  
HAL.Tunl.Warning  
HAL.Tunl.Notice  
HAL.Tunl.Info  
HAL.Tunl.DebugSummary  
HAL.Tunl.DebugVerbose  
HAL.Tunl.DebugData

## 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 usually 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 hardware is reached, remove configured tunnels will resolve the issue. Other error messages are usually 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
vrlid	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
vrlId	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 %vrlId% : %msg%

## Message Parameters

Name	Type
vrlId	uint32
msg	Printf

# 126 HAL.TunlAdj Messages

HAL.TunlAdj.Error  
HAL.TunlAdj.Warning  
HAL.TunlAdj.Notice  
HAL.TunlAdj.Info  
HAL.TunlAdj.DebugSummary  
HAL.TunlAdj.DebugVerbose  
HAL.TunlAdj.DebugData

## 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
vrld	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
vrld	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
vrlid	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
vrlId	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 %vrlId% : %msg%

## Message Parameters

Name	Type
vrlId	VRID
msg	Printf



# 127 HAL.VLAN Messages

HAL.VLAN.Error  
HAL.VLAN.Warning  
HAL.VLAN.Notice  
HAL.VLAN.Info  
HAL.VLAN.DebugSummary  
HAL.VLAN.DebugVerbose  
HAL.VLAN.DebugData  
HAL.VLAN.DsblLrnFiltFull  
HAL.VLAN.PVLANL2TbIFull  
HAL.VLAN.PVLANL2TbIFullEnt  
HAL.VLAN.ParmInv  
HAL.VLAN.VLANifNull  
HAL.VLAN.VPifNull  
HAL.VLAN.PifNull  
HAL.VLAN.VLANifHwInfoNull  
HAL.VLAN.AllocTXMIFail  
HAL.VLAN.AddPortPSIFail  
HAL.VLAN.DelPortPSIFail  
HAL.VLAN.SendAddPortCndtMsgFail  
HAL.VLAN.SendDelPortCndtMsgFail  
HAL.VLAN.AddPortFail  
HAL.VLAN.DelPortFail  
HAL.VLAN.AddPortToVLANFlood  
HAL.VLAN.DelPortFmVLANFlood  
HAL.VLAN.RemVLANTag  
HAL.VLAN.SyncSlot  
HAL.VLAN.MgmtVLAN  
HAL.VLAN.DumpVLANPSI  
HAL.VLAN.CfgIPAddr  
HAL.VLAN.CfgVLANToVRAssoc  
HAL.VLAN.CreatVR  
HAL.VLAN.DeIVR  
HAL.VLAN.AllocCndtMsgFail  
HAL.VLAN.VLANLibAPIFail  
HAL.VLAN.SendCkptMsgFail  
HAL.VLAN.AllocMemFail  
HAL.VLAN.CkptNotRdy

HAL.VLAN.Enter  
HAL.VLAN.Exit  
HAL.VLAN.CfgVLANAttr  
HAL.VLAN.ConfigVLANPortAttr  
HAL.VLAN.VPifHwInfoNull  
HAL.VLAN.VLANifHwInfoInv  
HAL.VLAN.TXMIMisMatch  
HAL.VLAN.FreeTXMIFail  
HAL.VLAN.PifHwInfoInv  
HAL.VLAN.ChgVLANTagFail  
HAL.VLAN.OpenCndtFail  
HAL.VLAN.CndtAckFail  
HAL.VLAN.CndtAck  
HAL.VLAN.SendCndtMsgFail  
HAL.VLAN.SendCndtMsgDone  
HAL.VLAN.SendMCndtMsgFail  
HAL.VLAN.SetFloodDataFail  
HAL.VLAN.AllocTagModFailed  
HAL.VLAN.MemoryAllocTagModFailed  
HAL.VLAN.TreeInsertTagModFailed  
HAL.VLAN.DeleteTagModGotNullInfo  
HAL.VLAN.DeleteTagModFailed  
HAL.VLAN.GotNoVirPortInfo  
HAL.VLAN.GotNullPortInfo  
HAL.VLAN.GotNullPortInfo2  
HAL.VLAN.halMallocFailed  
HAL.VLAN.halMallocFailed2  
HAL.VLAN.GotNullFL  
HAL.VLAN.FailedMallocForChkptMsg  
HAL.VLAN.FailedToChkptFL  
HAL.VLAN.GotNullPortInfo3  
HAL.VLAN.GotNullPortInfo4  
HAL.VLAN.GotNullPortInfo5  
HAL.VLAN.GotNullPortInfo6  
HAL.VLAN.GotNullPortInfo7  
HAL.VLAN.DelPortFromFLFailed  
HAL.VLAN.FailedToFindFL  
HAL.VLAN.EmptyDefaultFLFailed  
HAL.VLAN.InitFLFailed  
HAL.VLAN.FailedToFindFL2  
HAL.VLAN.FailedAddingPortToFL  
HAL.VLAN.FailedAddingPortToFL2

HAL.VLAN.FailedDelPortFromFL  
HAL.VLAN.FailToFindVirPortInfo  
HAL.VLAN.FailedAddingPortToFL3  
HAL.VLAN.FailedToCreateFL  
HAL.VLAN.FailToFindVirPortInfo2  
HAL.VLAN.ConduitInitFailed  
HAL.VLAN.ConduitSendFailed  
HAL.VLAN.ProgramHWTblFailed  
HAL.VLAN.GotNULLVlanInfo  
HAL.VLAN.StoreTagModFailed  
HAL.VLAN.RestoreVLANFLFailed  
HAL.VLAN.PortTXMIFindFailed  
HAL.VLAN.SetEncodingTblFail  
HAL.VLAN.ClearEncodingTblFail  
HAL.VLAN.CreateCustomFLFail  
HAL.VLAN.FindTagModFail  
HAL.VLAN.ConduitSendInfoFail  
HAL.VLAN.DeleteCustomFLFail  
HAL.VLAN.DeIPVLANFail  
HAL.VLAN.ChkptGotNullVlanFL  
HAL.VLAN.ChkptGotNullPortList  
HAL.VLAN.ChkptGotNullPortTxmi  
HAL.VLAN.ChkptGotNullVlanIns  
HAL.VLAN.ChkptGotNullTxmi  
HAL.VLAN.ChkptMsgBadInfo  
HAL.VLAN.ConduitAllocFailed  
HAL.VLAN.GotNullPortInstance  
HAL.VLAN.TrunkCustomFLFailed  
HAL.VLAN.SyncPVLANFail  
HAL.VLAN.AddIngrVLANXlateFail  
HAL.VLAN.EnblIngrVLANXlateFail  
HAL.VLAN.DelIngrVLANXlateFail  
HAL.VLAN.StrtDfrSendUpdt  
HAL.VLAN.StopDfrSendUpdt  
HAL.VLAN.RxStatsFiltRsrcUnavail  
HAL.VLAN.TxStatsFiltRsrcUnavail  
HAL.VLAN.DeIVLANXlateRangeFail  
HAL.VLAN.AddVLANXlateRangeFail  
HAL.VLAN.AddEgrVLANXlateFail  
HAL.VLAN.DelEgrVLANXlateFail  
HAL.VLAN.EnblEgrVLANXlateFail

---

## 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.PVLANL2TbIFull

### 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 occurrence can be seen by enabling the PVLANL2TbIFullEnt 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.PVLANL2TbIFullEnt

---

### Description

The hardware table was full and this FDB entry could not be added for PVLAN/Vlan translation. See the information for PVLANL2TbIFull for details.

### Remedy

See the information for PVLANL2TbIFull 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 usually 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 VLAN.

### 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.DeIPortPSIFail

### 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 messages.

### 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 messages.

## 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
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 deletion 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

Synchronize 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.DeIVR

---

### 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 %msgType% 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	slnt

## 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



Name	Type
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	slnt

## 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 doesn'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 trying 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 to 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.DeIPVLANFail

---

### 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% psiAddIoSnd %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% psiAddIoSnd %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.DeIVLANXlateRangeFail

## 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 occurrence 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

Name	Type
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 occurrence 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.EnableEgrVLANXlateFail

### 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

# 128 HAL.VMAN Messages

HAL.VMAN.DebugSummary  
HAL.VMAN.AddSVIDFail  
HAL.VMAN.SetUpdtSVIDFail  
HAL.VMAN.DelPortUpdtSVIDFail  
HAL.VMAN.AddPortUpdtSVIDFail  
HAL.VMAN.TxMISyncPortFail

## 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 occurred 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 occurred 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 occurred 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 occurred 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 occurred 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 severity level of HAL.VMAN, HAL.VLAN and report this issue to the customer 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

# 129 HAL.VSM Messages

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HAL.VSM.DebugSummary  
HAL.VSM.DebugVerbose  
HAL.VSM.DebugData  
HAL.VSM.BlkIngPort  
HAL.VSM.UnblkIngPort  
HAL.VSM.EnblRedirEgrPort  
HAL.VSM.DsblRedirEgrPort  
HAL.VSM.RecvUnkMsg  
HAL.VSM.FndPortFail  
HAL.VSM.MLAGUnsuprtPort  
HAL.VSM.AllocMLAGMemFail  
HAL.VSM.UnitInv  
HAL.VSM.CreatFiltFail  
HAL.VSM.QualPortFail  
HAL.VSM.QualTrunkFail  
HAL.VSM.AddFiltActFail  
HAL.VSM.InstlFiltFail  
HAL.VSM.ReInstlFiltFail  
HAL.VSM.CnvrFiltFail  
HAL.VSM.RepairFilt  
HAL.VSM.RepairFiltFail  
HAL.VSM.InstlHwFiltFail  
HAL.VSM.FiltHwFull  
HAL.VSM.RecvUnsuprtCkptVer  
HAL.VSM.ReconcilFiltInSync  
HAL.VSM.ReconcilAddFilt  
HAL.VSM.ReconcilDelFilt  
HAL.VSM.FastCnvrCtrlSyncFail

## 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.BkIngPort

---

### 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 the 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 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 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.InstFiltFail

### 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.ReInstIFiltFail

---

### 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.InstHwFiltFail

### 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 identifier. 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 identical 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.FastCnvrgeCtrlSyncFail

### 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

# 130 HAL.WRED Messages

---

HAL.WRED.GetStatsFail  
HAL.WRED.ClrStatsFail  
HAL.WRED.MemAllocParmFail  
HAL.WRED.GetGenPortFail  
HAL.WRED.GetGenPortModportFail  
HAL.WRED.GetEgrGenPortAchv  
HAL.WRED.CfgStatsFail  
HAL.WRED.EnblStatsFail  
HAL.WRED.SetStatsPortUnavail  
HAL.WRED.GetQueEstBufSizFail  
HAL.WRED.GetBufPortInv  
HAL.WRED.GetBufCfgPortInv  
HAL.WRED.CfgFail  
HAL.WRED.ClrStatsInv  
HAL.WRED.SetupStatsStrt  
HAL.WRED.SetupStatsDone  
HAL.WRED.GetCnts  
HAL.WRED.ClrCnts  
HAL.WRED.GetCustmPortStats  
HAL.WRED.CfgStrt  
HAL.WRED.Unsuprt  
HAL.WRED.IgnUnitInv

## 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: %errmsg%

## Message Parameters

Name	Type
port	String
errmsg	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: %errmsg%

## Message Parameters

Name	Type
port	String
errmsg	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: %errmsg%

## Message Parameters

Name	Type
port	String
errmsg	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: %errmsg%

### Message Parameters

Name	Type
port	String
errmsg	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: %errmsg%

## Message Parameters

Name	Type
port	String
errmsg	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: %errmsg%

## Message Parameters

Name	Type
port	String
errmsg	String

## HAL.WRED.SetStatsPortUnavail

### Description

WRED statistics setup has failed because of unavailability 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: %errmsg%

## Message Parameters

Name	Type
port	String
qos	uint32
errmsg	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%: %errmsg%

## Message Parameters

Name	Type
port	String
errmsg	String

# 131 HAL.Stacking Messages

HAL.Stacking.Error  
HAL.Stacking.Warning  
HAL.Stacking.Info  
HAL.Stacking.DebugSummary  
HAL.Stacking.DebugVerbose  
HAL.Stacking.DebugData  
HAL.Stacking.CfgStkMACAddrInv  
HAL.Stacking.QoSMatchDtect  
HAL.Stacking.BkupNodeMisCfg  
HAL.Stacking.StbyNodeMisCfg

## 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 unexpected 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.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 priority, 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 priority, 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.

# 132 Kern.Card Messages

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Kern.Card.Emergency  
Kern.Card.Alert  
Kern.Card.Critical  
Kern.Card.Error  
Kern.Card.Warning  
Kern.Card.Notice  
Kern.Card.Info  
Kern.Card.Debug

## 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

# 133 Kern.IPv4Adj Messages

Kern.IPv4Adj.Error  
Kern.IPv4Adj.Warning  
Kern.IPv4Adj.Notice  
Kern.IPv4Adj.Info  
Kern.IPv4Adj.Debug

## 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

# 134 Kern.IPv4FIB Messages

Kern.IPv4FIB.Error  
Kern.IPv4FIB.Warning  
Kern.IPv4FIB.Notice  
Kern.IPv4FIB.Info  
Kern.IPv4FIB.Debug

## 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

# 135 Kern.IPv4Mc Messages

Kern.IPv4Mc.Error  
Kern.IPv4Mc.Warning  
Kern.IPv4Mc.Notice  
Kern.IPv4Mc.Info  
Kern.IPv4Mc.Debug

## 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



# 136 Kern.IPv6Adj Messages

Kern.IPv6Adj.Error  
Kern.IPv6Adj.Warning  
Kern.IPv6Adj.Notice  
Kern.IPv6Adj.Info  
Kern.IPv6Adj.Debug

## 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

# 137 Kern.IPv6FIB Messages

Kern.IPv6FIB.Error  
Kern.IPv6FIB.Warning  
Kern.IPv6FIB.Notice  
Kern.IPv6FIB.Info  
Kern.IPv6FIB.Debug

## 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

# 138 Kern.IPv6Mc Messages

Kern.IPv6Mc.Error  
Kern.IPv6Mc.Warning  
Kern.IPv6Mc.Notice  
Kern.IPv6Mc.Info  
Kern.IPv6Mc.Debug

## 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

# 139 Kern.MPLS Messages

Kern.MPLS.Emergency  
Kern.MPLS.Alert  
Kern.MPLS.Critical  
Kern.MPLS.Error  
Kern.MPLS.Warning  
Kern.MPLS.Notice  
Kern.MPLS.Info  
Kern.MPLS.Debug

## 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 operation.

### 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 operation.

### 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 operation.

### 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

# 140 Kern.PTP Messages

Kern.PTP.Error  
Kern.PTP.Warning  
Kern.PTP.Notice  
Kern.PTP.Info  
Kern.PTP.Debug

## 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



# 141 Kern.SyncE Messages

Kern.SyncE.Error  
Kern.SyncE.Warning  
Kern.SyncE.Notice  
Kern.SyncE.Info  
Kern.SyncE.Debug

## 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

# 142 Kern.TRILL Messages

Kern.TRILL.Emergency  
Kern.TRILL.Alert  
Kern.TRILL.Critical  
Kern.TRILL.Error  
Kern.TRILL.Warning  
Kern.TRILL.Notice  
Kern.TRILL.Info  
Kern.TRILL.Debug

## Kern.TRILL.Emergency

### Description

TRILL 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.TRILL.Alert

---

### Description

TRILL 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.TRILL.Critical

---

### Description

TRILL 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.TRILL.Error

### Description

TRILL processing on specified slot logged a message of severity 'Error'.

### Remedy

If the error message indicates no memory on the system, removing 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.TRILL.Warning

### Description

TRILL 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.TRILL.Notice

---

### Description

TRILL 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.TRILL.Info

---

### Description

TRILL 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.TRILL.Debug

## Description

TRILL 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

# 143 Kern.TunlAdj Messages

Kern.TunlAdj.Error  
Kern.TunlAdj.Warning  
Kern.TunlAdj.Notice  
Kern.TunlAdj.Info  
Kern.TunlAdj.Debug

## 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

# 144 LAGHC Messages

LAGHC.DebugSummary  
LAGHC.DebugVerbose  
LAGHC.DebugData  
LAGHC.TCPTrckNtfyRecv  
LAGHC.MbrPortRem  
LAGHC.MbrPortAdd  
LAGHC.MbrPortCreate  
LAGHC.MbrPortDelete  
LAGHC.AC�Apply  
LAGHC.AC�DeApply  
LAGHC.AC�Created  
LAGHC.AC�Deleted  
LAGHC.ConfigTrace  
LAGHC.DuplicateGroupld  
LAGHC.GroupldDoesNotExist  
LAGHC.PortDoesNotExist  
LAGHC.MaxLagInstancesReached  
LAGHC.LagInstanceOutOfRange  
LAGHC.OutOfMemory  
LAGHC.TCPTrckNtfyIgn  
LAGHC.TmrCreateFailed  
LAGHC.PortNotFound  
LAGHC.TCPTrkAddErr  
LAGHC.ChkPtTlvSendErr  
LAGHC.ChkPtTlvDecodeErr  
LAGHC.ChkPtUnkEv  
LAGHC.ChkPtUnsupType  
LAGHC.ChkPtTlvSizeMismatch  
LAGHC.InsPortFail  
LAGHC.AddTrackldFail  
LAGHC.RemTCPTrackFail  
LAGHC.DsbITCPTrackFail  
LAGHC.DsbITCPTrackMsgFail  
LAGHC.EnbITCPTrackFail  
LAGHC.UnackTimerExp  
LAGHC.LAGNotExist  
LAGHC.NoFreeUnackEntAvail

LAGHC.SetAggrFail  
 LAGHC.AddPortFail  
 LAGHC.LifNotExist  
 LAGHC.PifNotExist

## 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 recieved. 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.ACApply

### 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.TCPTrckNtfylgn

### 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

Name	Type
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.DsbITCPTrackFail

---

### 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.DsbITCPTrackMsgFail

### 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.EnbITCPTrackFail

---

### 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

# 145 IdMgr Messages

IdMgr.RecvACLCIbk  
IdMgr.RecvLLDPTrig  
IdMgr.RecvNetLoginTrig  
IdMgr.RecvFDBTrig  
IdMgr.RecvIPSecTrig  
IdMgr.RecvCIntCtrl  
IdMgr.RecvCIntData  
IdMgr.RecvCIntMsg  
IdMgr.DscvrId  
IdMgr.UndscvrId  
IdMgr.PurgIdEnt  
IdMgr.HighMemUsageRch  
IdMgr.MaxMemUsageRch  
IdMgr.AddIPv4Addr  
IdMgr.DelIPv4Addr  
IdMgr.AuthIdFail  
IdMgr.CritMemUsageRch  
IdMgr.NrmlMemUsageRch  
IdMgr.ChgAgeOutTime  
IdMgr.RecvKerberosTrig  
IdMgr.RecvKerberosEvent  
IdMgr.OpenRxSockFail  
IdMgr.AddLLDPInfo  
IdMgr.DelLLDPInfo  
IdMgr.AddKerberosInfo  
IdMgr.DelKerberosInfo  
IdMgr.ReauthId  
IdMgr.ReauthIdFail  
IdMgr.EvtObjAddFail  
IdMgr.EvtInfoAddFail  
IdMgr.EvtNotifyFail  
IdMgr.EvtSendFail  
IdMgr.EvtHandleError  
IdMgr.RecvDOSTrig  
IdMgr.AssocIdToRole  
IdMgr.DisassocIdFmRole  
IdMgr.ApplyPlcyVerbose

IdMgr.CnctLDAPsrvrFail  
IdMgr.BndUserLDAPsrvrFail  
IdMgr.SrchUserLDAPsrvrFail  
IdMgr.CnctLDAPsrvrOK  
IdMgr.BndUserLDAPsrvrOK  
IdMgr.SrchUserLDAPsrvrOK  
IdMgr.MoveIdMACMoveDtect  
IdMgr.AddPlcyToRoleFail  
IdMgr.SrcAddrTypeChgFail  
IdMgr.MoveIdFmEnblToDsbIPort  
IdMgr.FDBAgeOutForId  
IdMgr.RxPktBuf  
IdMgr.CauseEntRedun  
IdMgr.ParmNull  
IdMgr.ParmInv  
IdMgr.AllocMemFail  
IdMgr.DelStrucFldNotNull  
IdMgr.AllocIndxFail  
IdMgr.DelVldFDBIdAgeOutList  
IdMgr.GreyListUserDtect  
IdMgr.PriorityHeirarchyFail  
IdMgr.SendLDAPGrpQuery  
IdMgr.SrchUserGrpLDAPsrvrOK  
IdMgr.SrchUserGrpLDAPsrvrFail  
IdMgr.DecryptMaxStrSizExcd  
IdMgr.RoleBasedVLANTrace  
IdMgr.AssocIdToRoleVLAN  
IdMgr.IdRoleVRMismatch

## 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%/ [%v1Size%] %v11%; %v12%; %v13%; %v14%, authMethod %authMethod%

### Message Parameters

Name	Type
triggerName	String
user	String
mac	MAC
port	SlotPort
v1Size	uint32
v11	uint32
v12	uint32
v13	uint32
v14	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.RecvCntCtrl

### 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.UndscvId

---

### 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 availability 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	slnt
percMem	slnt
maxMem	slnt

## 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

Name	Type
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 availability 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 generated. This can be an indicator of error condition as too many identities have been discovered on the device

### Remedy

This message is for error notification 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 identities 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
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 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 \"%capability%\" added

### Message Parameters

Name	Type
identity	String
mac	MAC

Name	Type
authMethod	String
port	SlotPort
capability	String

## IdMgr.DeLLDPInfo

### 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.MoveIdFmEnbIToDsbIPort

### Description

The Identity is moved from IDMgr enabled port to IDMgr 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 will be 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

While 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 allocation 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.DelVidFDBIdAgeOutList

### 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

# 146 IPFIX Messages

---

IPFIX.CreatSockFail  
IPFIX.SetVRFail  
IPFIX.BindSrcAddrFail  
IPFIX.CnctFail  
IPFIX.ExportFail  
IPFIX.DebugVerbose

## IPFIX.CreatSockFail

---

### Description

Internal error.

### Remedy

Contact tech support.

### Severity

Error

### Message Text

Failed to open socket to Collector

## IPFIX.SetVRFail

---

### Description

Internal error.

### Remedy

Please check if the corresponding VR exists. If it does please contact tech support.

### Severity

Error

### Message Text

Could not set VR %vr1%.

### Message Parameters

Name	Type
vr1	VRID

## 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

# 147 IPFIX.FlowRcrd Messages

IPFIX.FlowRcrd.RecvErr  
IPFIX.FlowRcrd.IPv4  
IPFIX.FlowRcrd.IPv6  
IPFIX.FlowRcrd.NonIP  
IPFIX.FlowRcrd.General

## 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

# 148 ipSecur Messages

ipSecur.dhcpViol  
ipSecur.arpViol  
ipSecur.blkPort  
ipSecur.blkMac  
ipSecur.drpPkt  
ipSecur.fdbLkup  
ipSecur.fdbCbK  
ipSecur.ipAnomaly  
ipSecur.l4portAnomaly  
ipSecur.tcpFlagAnomaly  
ipSecur.tcpHeaderSizeAnomaly  
ipSecur.tcpFragmentAnomaly  
ipSecur.icmpAnomaly  
ipSecur.dataDump  
ipSecur.errorAnomaly  
ipSecur.infoAnomaly  
ipSecur.debugAnomaly  
ipSecur.secArpAdd  
ipSecur.secArpDel  
ipSecur.srcIpLockedDown  
ipSecur.srcIpUnlocked  
ipSecur.dhcpLeaseExpired  
ipSecur.opt82ClientPktDropped  
ipSecur.opt82CheckFailed  
ipSecur.dhcpBindingAddRefresh  
ipSecur.bindingsUploadIP  
ipSecur.bindingsUploadHostname  
ipSecur.bindingsDownloadIP  
ipSecur.bindingsDwnldHstnam  
ipSecur.bindingsUploadIPFail  
ipSecur.bindingsUpldHstnamFail  
ipSecur.bindingsDownloadIPFail  
ipSecur.bindingsDwnldHstnamFail

## 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 remedy is available.

### 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 remedy is available.

### 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 remedy is available.

### 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 remedy is available.

## 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 remedy is available.

### 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 remedy is available.

### 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

Name	Type
smac	srcMAC
dmac	dstMAC
sip	String
dip	String
sport	L4port
dport	L4port
info	String

## ipSecur.tcpFragmentAnomaly

### Description

Detect TCP header size anomaly:

### Remedy

No remedy is available.

### 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
dip	String
info	String

## ipSecur.icmpAnomaly

---

### Description

Detect ICMP anomaly:

### Remedy

No remedy is available.

### 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 remedy is available.

### 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 information message

### Remedy

No remedy is available.

### Severity

Info

### Message Text

%info%

### Message Parameters

Name	Type
info	String

## ipSecur.debugAnomaly

---

### Description

protocol anomaly protection debugging message

### Remedy

No remedy is available.

### Severity

Debug-Summary

### Message Text

%debug%

### Message Parameters

Name	Type
debug	String

## ipSecur.secArpAdd

---

### Description

A Secure ARP entry was added.

## Remedy

No remedy is available.

## 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 remedy is available.

## 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 remedy is available.

### 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 remedy is available.

### 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 remedy is available.

### 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 remedy is available.

### 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 remedy is available.

### 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 remedy is available.

### 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 remedy is available.

### 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 remedy is available.

### 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 remedy is available.

## Severity

Info

## Message Text

Upload of bindings file %filename% to server %ip% failed

## Message Parameters

Name	Type
ip	IP
filename	String

## ipSecur.bindingsUpIidHstnamFail

---

### Description

No description is available.

### Remedy

No remedy is available.

### 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 remedy is available.

### 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 remedy is available.

### Severity

Info

### Message Text

Download of bindings file %filename% from server %hostname% failed

### Message Parameters

Name	Type
hostname	String
filename	String



# 149 ISIS Messages

ISIS.DebugSummary  
ISIS.IvlUpd  
ISIS.RchMap  
ISIS.RchInfParam  
ISIS.RchInfMap  
ISIS.RchInfDel  
ISIS.RchInfUpd  
ISIS.ISRchMap  
ISIS.NoISIS  
ISIS.InitFail  
ISIS.LockInitFail  
ISIS.CLIAsyncFailVRNull  
ISIS.CLIAsyncFailMstrNull  
ISIS.CLIAsyncExpCntxtNull  
ISIS.CLIAsyncAllocFail  
ISIS.TermStrt  
ISIS.TermDone  
ISIS.ClientInitFail  
ISIS.IfsNotFwd  
ISIS.IPv4IfNotFwd  
ISIS.IPv6IfNotFwd  
ISIS.DelFDBFail  
ISIS.AddFDBFail  
ISIS.BndMACFiltFail  
ISIS.UnbndMACFiltFail  
ISIS.InitSockFail  
ISIS.CreatMACFiltFail  
ISIS.DeIMACFiltFail  
ISIS.BndMACFiltInitNotDone  
ISIS.BndMACFiltReqFail  
ISIS.UnbndMACFiltInitNotDone  
ISIS.UnbndMACFiltReqFail  
ISIS.PollSockFail

---

## 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.IlvUpd

---

### 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 need 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.DeIFDBFail

### 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 support.

### 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.DeIMACFiltFail

---

### 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 support.

### 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

# 150 ISIS.Export Messages

---

ISIS.Export.IfStart  
ISIS.Export.IfAdd  
ISIS.Export.IfDel  
ISIS.Export.IfNotify  
ISIS.Export.IfReg  
ISIS.Export.UpdtMapDebug  
ISIS.Export.UpdtIPv4  
ISIS.Export.UpdtIPv6  
ISIS.Export.ChgIPv4RtType  
ISIS.Export.ChgIPv6RtType  
ISIS.Export.DellIPv4NoExist  
ISIS.Export.DellIPv6NoExist  
ISIS.Export.WalkRtTypeAllocFail  
ISIS.Export.WalkRtTypeReqFail  
ISIS.Export.WalkRtTypeHndlDup  
ISIS.Export.RtTypeInv

## 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
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.DellPv6NoExist

### 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

# 151 ISIS.IFSM Messages

ISIS.IFSM.IfUp  
ISIS.IFSM.IfDown  
ISIS.IFSM.MaxCircIDExc  
ISIS.IFSM.IfCircDown  
ISIS.IFSM.HelloTimerExp  
ISIS.IFSM.CSNPTimerExp  
ISIS.IFSM.DisElect  
ISIS.IFSM.IfDownRes  
ISIS.IFSM.IgnEvent  
ISIS.IFSM.StateChg  
ISIS.IFSM.ProcEvent

## 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 occurred 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

# 152 ISIS.IIH Messages

---

ISIS.IIH.RxSrcIdSame  
ISIS.IIH.RxSrcIdNoMatch  
ISIS.IIH.RxMacNoMatch  
ISIS.IIH.RxAuthFail  
ISIS.IIH.RxCircIdNoMatch  
ISIS.IIH.RxCircTypeNoMatch  
ISIS.IIH.RxCircTypeChg  
ISIS.IIH.RxAreaNoMatch  
ISIS.IIH.RxNoProto  
ISIS.IIH.RxProtoNoMatch  
ISIS.IIH.RxIPv4NoMatch  
ISIS.IIH.RxIPv4IfNoMatch  
ISIS.IIH.RxIPv6NoMatch  
ISIS.IIH.RxIPv6IfNoMatch  
ISIS.IIH.Rx3WayInv  
ISIS.IIH.RxSysIdNoMatch  
ISIS.IIH.RxExtCircIdNoMatch  
ISIS.IIH.RxNbrAddLocalFail  
ISIS.IIH.RxNbrAddGlobalFail  
ISIS.IIH.RxIPv4IfNotFwd  
ISIS.IIH.RxIPv6IfNotFwd

## ISIS.IIH.RxSrcIdSame

---

### Description

A Hello packet of the specified type was received from a neighbor 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-topology 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

# 153 ISIS.Import Messages

---

```
ISIS.Import.AddIPv4Fail
ISIS.Import.DelIPv4Fail
ISIS.Import.AddIPv4BlackHoleFail
ISIS.Import.DelIPv4BlackHoleFail
ISIS.Import.AddIPv6Fail
ISIS.Import.DelIPv6Fail
ISIS.Import.AddIPv6BlackHoleFail
ISIS.Import.DelIPv6BlackHoleFail
ISIS.Import.UpdtIPv4
ISIS.Import.UpdtIPv6
ISIS.Import.UpdtIPv4NextHop
ISIS.Import.UpdtIPv6NextHop
ISIS.Import.AddReq
ISIS.Import.AddTrace
ISIS.Import.AddNextHopDebug
ISIS.Import.AddDone
ISIS.Import.DelReq
ISIS.Import.DelTrace
ISIS.Import.DelDone
```

## 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 enabled 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 reenabled 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 enabled 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 enabled 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 enabled 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 enabled 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	slnt
rc	slnt

## 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 enabled 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	slnt

## 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 re-enabled 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
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

Name	Type
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

# 154 ISIS.LSP Messages

---

ISIS.LSP.Add  
ISIS.LSP.AddSelf  
ISIS.LSP.AddSNP  
ISIS.LSP.UpdtSelf  
ISIS.LSP.Del  
ISIS.LSP.DelSelf  
ISIS.LSP.RxZeroLife  
ISIS.LSP.RxNewer  
ISIS.LSP.RxSame  
ISIS.LSP.RxOlder  
ISIS.LSP.RxPrevSNP  
ISIS.LSP.AgeOut  
ISIS.LSP.NoFloodSRM  
ISIS.LSP.NoFloodNbr  
ISIS.LSP.NoFloodSize  
ISIS.LSP.RxSelfCSNP  
ISIS.LSP.Proc  
ISIS.LSP.AuthFail  
ISIS.LSP.CksumFail  
ISIS.LSP.LifetimeInv  
ISIS.LSP.RxSelfPSNP  
ISIS.LSP.TLV\_Data

## 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.DeIself

## 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

%1spId%: received LSP is same as DB copy

## Message Parameters

Name	Type
lspId	String

## ISIS.LSP.RxOlder

### Description

The received LSP is older than 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 specified 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

%1spId%: no valid L%1level% 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 appropriate 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



# 155 ISIS.NFSM Messages

---

ISIS.NFSM.LANHoldTimerExp  
ISIS.NFSM.LANRxFirstHello  
ISIS.NFSM.LANRxHello  
ISIS.NFSM.LANIfDown  
ISIS.NFSM.LANAdjUp  
ISIS.NFSM.IgnEvent  
ISIS.NFSM.AdjChg  
ISIS.NFSM.ProcEvent  
ISIS.NFSM.P2PHoldTimerExp  
ISIS.NFSM.P2PCSNPTimerExp  
ISIS.NFSM.P2PIgnEvent  
ISIS.NFSM.NbrNotFound  
ISIS.NFSM.NbrAdd  
ISIS.NFSM.NbrDel  
ISIS.NFSM.ProtoChg

## 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

# 156 ISIS.PDU Messages

ISIS.PDU.RxProtoInv  
ISIS.PDU.RxProtoUnk  
ISIS.PDU.RxLvlMisMatch  
ISIS.PDU.RxProtoVerInv  
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ISIS.PDU.LanHelloTlv  
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ISIS.PDU.PsnpTlv  
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ISIS.PDU.RxFail

## 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.RxLvIMisMatch

---

### 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

Name	Type
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 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.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



# 157 ISIS.Policy Messages

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ISIS.Policy.BndFail  
ISIS.Policy.BndReqFail  
ISIS.Policy.UnbndFailHndlNull  
ISIS.Policy.UnbndReqFail  
ISIS.Policy.BndFailRtTypeInv  
ISIS.Policy.DebugData  
ISIS.Policy.RfrshFailInstNull  
ISIS.Policy.RfrshFailMstrNull  
ISIS.Policy.RfrshFailVRNull  
ISIS.Policy.RfrshFailRtTypeInv  
ISIS.Policy.RfrshFailVRIDUnk  
ISIS.Policy.RfrshFailDataNull  
ISIS.Policy.BndFailDataNull  
ISIS.Policy.RfrshImpprtDebug  
ISIS.Policy.RfrshExprtDebug  
ISIS.Policy.RfrshInterLvlDebug

## 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.RfrshImpprtDebug

### 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

# 158 ISIS.Restart Messages

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ISIS.Restart.T1Exp  
ISIS.Restart.Success  
ISIS.Restart.Fail  
ISIS.Restart.T3ExpNoSync  
ISIS.Restart.IfNotReady  
ISIS.Restart.LSPNotSync  
ISIS.Restart.TrigSyncCall  
ISIS.Restart.TrigSyncSuccess  
ISIS.Restart.T2Exp  
ISIS.Restart.SyncSuccess  
ISIS.Restart.SyncFail  
ISIS.Restart.DisChg  
ISIS.Restart.DisElect  
ISIS.Restart.T3Exp  
ISIS.Restart.LANIDNoIf  
ISIS.Restart.LANIDTrc  
ISIS.Restart.LANIDCircIDChg  
ISIS.Restart.MaxT1ExpExcd

## 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 acknowledgement 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 accommodate 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 synchronized.

### 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 verified 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 verified 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% circlD %circlD%: vlan inst %vlanInst% not enabled

### Message Parameters

Name	Type
objID	uint
circlD	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

Name	Type
ifCirclD	uint
preservedCirclD	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

# 159 ISIS.SPF Messages

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ISIS.SPF.PathMaxExc  
ISIS.SPF.CalcNexthop  
ISIS.SPF.NoNexthop  
ISIS.SPF.InvIPIntRch  
ISIS.SPF.IgnLSP  
ISIS.SPF.InvProto  
ISIS.SPF.LSPExist  
ISIS.SPF.NbrNoLink  
ISIS.SPF.DumpVert  
ISIS.SPF.DumpNexthop  
ISIS.SPF.CalcStart  
ISIS.SPF.CalcNoSelf  
ISIS.SPF.CalcNoRoot  
ISIS.SPF.CalcEnd  
ISIS.SPF.CalcTimerExp  
ISIS.SPF.CalcDone  
ISIS.SPF.CalcSched

## 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%: calculate 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



Name	Type
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



# 160 ISIS.VLAN Messages

---

ISIS.VLAN.IfUp  
ISIS.VLAN.IfDown  
ISIS.VLAN.IfDownErr  
ISIS.VLAN.IfAddrAdd  
ISIS.VLAN.IfAddrDel  
ISIS.VLAN.NoVR  
ISIS.VLAN.VRIDMismatch  
ISIS.VLAN.IfNameNotFound  
ISIS.VLAN.IfCreateFail  
ISIS.VLAN.IfUnbindFail  
ISIS.VLAN.IfNotFound  
ISIS.VLAN.IfInstNotFound  
ISIS.VLAN.IfProtoEnDis  
ISIS.VLAN.IfProtoEnDisFail  
ISIS.VLAN.VRCreateFail  
ISIS.VLAN.VRCreateDupe  
ISIS.VLAN.IfTrc

## 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

# 161 Kern Messages

Kern.Emergency  
Kern.Alert  
Kern.Critical  
Kern.Error  
Kern.Warning  
Kern.Notice  
Kern.Info  
Kern.Debug

## 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

# 162 LACP Messages

LACP.Error  
LACP.DebugSummary  
LACP.DebugVerbose  
LACP.DebugData  
LACP.DebugInit  
LACP.RxPkt  
LACP.TxPkt  
LACP.LACPPDUInvMaxSizExcd  
LACP.MrkrPDUInvMaxSizExcd  
LACP.CreatUnackTimerFail  
LACP.CreatVLANMsgFail  
LACP.CreatVLANInfoFail  
LACP.CreatFineGranTimerFail  
LACP.CreatPeriodTimerFail  
LACP.CreatCurWhileTimerFail  
LACP.GetLastPortFail  
LACP.CreatWaitWhileTimerFail  
LACP.CreatChurnTimerFail  
LACP.CreatLAGFail  
LACP.AddPortFail  
LACP.CreatAggrPortFail  
LACP.CreatPDUFail  
LACP.CreatCkptMsgFail  
LACP.AttachExpktFiltFail  
LACP.GetVLANNameFail  
LACP.RxPDUFail  
LACP.RxPDULenInv  
LACP.RxPDUSizExcd  
LACP.DestAddrInv  
LACP.PDULenNotMatchProto  
LACP.LAGInstcOutOfRange  
LACP.SendPDUFail  
LACP.LAGGrpldInv  
LACP.CreatNetTxSockFail  
LACP.IncrsSendBufSizFail  
LACP.IncrsRxBufSizFail  
LACP.OpenNetTxConnFail

LACP.InitTimerFail  
LACP.SysMACActorKeyCombInv  
LACP.ModLAGId  
LACP.NoFreeUnackEntAvail  
LACP.LAGInstcNotExist  
LACP.UnackTimerExp  
LACP.SetAggrErr  
LACP.DtachExpktFiltFail  
LACP.VLANIDAlrdyExist  
LACP.VLANIDNotExist  
LACP.InitPortFail  
LACP.MuxStateInv  
LACP.WaitTimerAlrdyEnbl  
LACP.WaitTimerExp  
LACP.AttachPort  
LACP.PortLogicInvMuxState  
LACP.ChurnTimerStateInv  
LACP.ChurnTimerExp  
LACP.ChurnEventUnk  
LACP.LifNotExist  
LACP.PifNotExist  
LACP.LAGNotFndForLif  
LACP.AddPortDupGrpId  
LACP.RemLAGEntFail  
LACP.NoFreeLAGInstcAvail  
LACP.AddPortDupPortNum  
LACP.PortNotExistInLAG  
LACP.CurWhileTimerExp  
LACP.RxPDUUnkType  
LACP.RecvUnkCkptMsg  
LACP.SendTrapFailLAGNotExist  
LACP.RecvLcnsUpdt  
LACP.SkipAckUsage  
LACP.AddPortToAggr  
LACP.RemPortFromAggr  
LACP.BindExpktFiltFail  
LACP.UnBindExpktFiltFail  
LACP.MinActvLinkAchv  
LACP.MinActvLinkNotMntn

## 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

# 163 LAGHC Messages

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LAGHC.SetAggrFail  
LAGHC.AddPortFail  
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LAGHC.PifNotExist

## 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 recieved. 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.ACApply

### 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.TCPTrckNtfylgn

---

### 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

Name	Type
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.DsbITCPTrackFail

---

### 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.DsbITCPTrackMsgFail

### 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.EnbITCPTrackFail

---

### 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

# 164 Ildp Messages

---

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---

## Ildp.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

---

## Ildp.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 Support

### 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	slnt

## 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

## Ildp.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

---

## Ildp.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

---

## Ildp.LocalTLVChange

---

### Description

This message gets logged if data for an Enabled TLV changes. Port 255:255 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 than 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

## Ildp.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

## Ildp.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

## Ildp.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



## Ildp.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

## Ildp.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

## Ildp.TxStateVar

### Description

This message logs the state variable 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 %sc1%, TTR %txTTR%, delay %txDelay%, async %async%

## Message Parameters

Name	Type
port	ingressSlotPort
timer	xInt32
pe	uint8
scl	uint8
txTTR	uint16
txDelay	uint16
async	sInt

## Ildp.RxStateVar

### Description

This message logs the state variable 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

## Ildp.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

## Ildp.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

## Ildp.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/PHY information 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.ReachNXTdetect

### 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 lldMgr for port %port%, mac %mac%, device %device%

## Message Parameters

Name	Type
event	String
port	SlotPort
mac	MAC
device	xInt32

# 165 Ildp.DCBX Messages

Ildp.DCBX.DebugSummary  
Ildp.DCBX.DebugVerbose  
Ildp.DCBX.DebugData  
Ildp.DCBX.CfgMisMatchDtect  
Ildp.DCBX.CfgMisMatchRslv  
Ildp.DCBX.ParmInv  
Ildp.DCBX.MultiPeerDtect  
Ildp.DCBX.MultiPeerRslv

## Ildp.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

---

## Ildp.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

---

## Ildp.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

## Ildp.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

## Ildp.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

## Ildp.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

## Ildp.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

## Ildp.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

# 166 log Messages

---

log.ClientBufOvrfl  
log.unregReq  
log.regReq  
log.regFinAck  
log.NVRAM\_Reset  
log.NVRAM\_Update  
log.NVRAM\_Validate  
log.NVRAM\_Init  
log.serverStarted  
log.clientNew  
log.clientID  
log.clientDead  
log.noBuffer  
log.dupClient  
log.maxDupComp  
log.syslogSocket  
log.syslogBind  
log.syslogVRID  
log.dumpClient  
log.compClients  
log.compLog  
log.compRemoved  
log.compRegFailed  
log.tftpSend  
log.tftpOut  
log.tftpIn  
log.tftpTimeout  
log.tftpError  
log.uplLogStart  
log.uplLogFinished  
log.uplLogError  
log.initFilter  
log.initTarget  
log.sendClrCounters  
log.recvCounter  
log.NVRAM\_Failed  
log.NVRAM\_Corrupted

## log.AlertMbufTrgtPrcntFull

## 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
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

Name	Type
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

Restart the log facility; and if the problem persists, get in touch with Extreme Networks Technical Support, providing the results from running diagnostics and "show tech".

### Severity

Error

### Message Text

Unable to update the NVRAM target log message storage header [result code %code%].

### Message Parameters

Name	Type
code	sInt

## log.NVRAM\_Validate

---

### Description

The log facility failed to validate the newly created NVRAM Log header.



## Remedy

Restart the log facility, if the problem continues to exist get in touch with Extreme Networks Techsupport.

## 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 remedy is available.

### Severity

Info

### Message Text

The NVRAM target was successfully initialized.

---

## log.serverStarted

---

### Description

This message gets displayed when the emsServer starts.

### Remedy

This is an informational message.

### Severity

Info

### Message Text

Log message server application 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

See if the system is low on memory resources.

### 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.

## Remedy

Try to restart the application and see if it happens again. If so please report this issue to the Extreme Networks support center.

## Severity

Warning

## Message Text

Duplicate client registration detected for client %name% [%peerOne%.%peerTwo%.%chassis%.%slot%.%pid%]

## Message Parameters

Name	Type
name	String
peerOne	uint
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

Try restarting the log server. If this happens again please get in touch with Extreme Networks techsupport.

### Severity

Error

### Message Text

Unable to allocate system socket for syslog server communication.

## log.syslogBind

---

### Description

The log server was unable to bind UDP port 514 to the syslog client.

### Remedy

Try restarting the log server. If this happens again please get in touch with Extreme Networks techsupport.

## Severity

Error

## Message Text

Unable to bind syslog client socket to UDP port 514 [%error%]

## Message Parameters

Name	Type
error	String

## log.syslogVRID

---

### Description

The log server was unable to assign the correct VR ID for the syslog client.

### Remedy

Try restarting the log server. If this happens again please get in touch with Extreme Networks techsupport.

## Severity

Error

## Message Text

Unable to set VR ID for syslog client socket [%error%]

## Message Parameters

Name	Type
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 too 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; too 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 were 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 too 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 remedy is available.

### Severity

Debug-Data

## Message Text

Outgoing tftp packet to %ip%:%port% size %size% bytes

## Message Parameters

Name	Type
ip	IPN
port	ulnt
size	ulnt
outpacketp	Buf-ptr
packetlen	Buf-len

## log.tftpln

### 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	ulnt
size	ulnt
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.upLogStart

### 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.upLogFinished

### 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.upLogError

### 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 - -----  
 ----- | 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
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

The NVRAM target failed initialization.

### Remedy

See previous log messages, "show log chron", what could have caused this.

### 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

Please contact Extreme Networks Techsupport, as this should not happen during normal operation.

### 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

# 167 IPMC Messages

---

IPMC.Critical  
IPMC.Error  
IPMC.Warning  
IPMC.Notice  
IPMC.Info  
IPMC.DebugSummary  
IPMC.DebugVerbose  
IPMC.DebugData  
IPMC.init  
IPMC.memAlloc  
IPMC.NotifyV3Members  
IPMC.AddMemberErr  
IPMC.mcmAddMember  
IPMC.FmcDebug  
IPMC.RxIGMPQueryCfgMismatch  
IPMC.RxMLDQueryCfgMismatch

## 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 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

# 168 IPMC.HAL Messages

IPMC.HAL.AddIPv6Cache  
IPMC.HAL.DelIPv6Cache  
IPMC.HAL.FlushIPv6Cache  
IPMC.HAL.AddPortIPv6Cache  
IPMC.HAL.DelPortIPv6Cache

## 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

# 169 IPMC.mrinfo Messages

IPMC.mrinfo.RxReq  
IPMC.mrinfo.RxRspns  
IPMC.mrinfo.SendReqToPIM  
IPMC.mrinfo.RecvRspnsFmPIM  
IPMC.mrinfo.TxReq  
IPMC.mrinfo.TxRspns  
IPMC.mrinfo.DropRspns  
IPMC.mrinfo.DropReq  
IPMC.mrinfo.TxReqFail  
IPMC.mrinfo.TxRspnsFail  
IPMC.mrinfo.CIntSessnTmout

## 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 Neighbors2 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) is being sent out by the switch in response to mrinfo request.

### Remedy

Informational message only, for debug purpose.

### Severity

Debug-Data

## Message Text

Sending DVMRP Neighbors2 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 Neighbors2 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) is dropped in EXOS switch.

### Remedy

Error string displays the reason.

### Severity

Debug-Summary

### Message Text

Dropping DVMRP Neighbors2 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 Neighbors2 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 Neighbors2 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.CIntSessnTmout

### 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 %rcvPkt% on VR %vrId%

### Message Parameters

Name	Type
fromAddr	IPN
toAddr	IPN
sentPkt	ulnt32
rcvPkt	ulnt32
vrId	ulnt32

# 170 IPMC.mtrace Messages

IPMC.mtrace.RxRspns  
IPMC.mtrace.RxReq  
IPMC.mtrace.SendReqToPIM  
IPMC.mtrace.RecvRspnsFmPIM  
IPMC.mtrace.TxReq  
IPMC.mtrace.FwdReq  
IPMC.mtrace.TxRspns  
IPMC.mtrace.DropReq  
IPMC.mtrace.DropRspns  
IPMC.mtrace.TxReqFail  
IPMC.mtrace.TxRspnsFail  
IPMC.mtrace.CIntSessnTmout

## 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

Name	Type
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
vrlId	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 %vrlId%

### Message Parameters

Name	Type
ipDestAddr	IPN
srcAddr	IPN
grpAddr	IPN
queryId	uInt32
iifAddr	IPN
srcMask	uInt8
fwdCode	uInt8
vrlId	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.CIntSessnTmout

### 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

# 171 IPMC.MVR Messages

IPMC.MVR.portCheckFail  
IPMC.MVR.portCheckPass  
IPMC.MVR.AddedVif  
IPMC.MVR.PortTraversal

## 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
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
grp	IPAddrN
slot	Slot
port	Port

# 172 IPMC.Snoop Messages

IPMC.Snoop.routerPortAge  
IPMC.Snoop.igmpQuerier  
IPMC.Snoop.nigmpQuerier  
IPMC.Snoop.newReceiver  
IPMC.Snoop.newRouterPort  
IPMC.Snoop.ageReceiver  
IPMC.Snoop.l2CacheMiss  
IPMC.Snoop.ageSource  
IPMC.Snoop.recvData  
IPMC.Snoop.l3CacheMiss  
IPMC.Snoop.cacheError  
IPMC.Snoop.modeSwIn  
IPMC.Snoop.recvdQueryMsg  
IPMC.Snoop.recvdV1ReportMsg  
IPMC.Snoop.recvdLeaveMsg  
IPMC.Snoop.sendQueryMsg  
IPMC.Snoop.recvdMLDQueryMsg  
IPMC.Snoop.recvdMLDReportMsg  
IPMC.Snoop.recvdMLDReductionMsg  
IPMC.Snoop.ageMLDReceiver  
IPMC.Snoop.v1bypassedPim  
IPMC.Snoop.v2bypassedPim  
IPMC.Snoop.recvdV2ReportMsg  
IPMC.Snoop.recvdV3ReportMsg  
IPMC.Snoop.recvdV3NewGroup  
IPMC.Snoop.membersNotSent  
IPMC.Snoop.processIgmpReport  
IPMC.Snoop.PimSnoopPktRcv  
IPMC.Snoop.changeGroupVersion  
IPMC.Snoop.changeReceiverVersion  
IPMC.Snoop.ReceiverGrpRec  
IPMC.Snoop.setReceiverTimer  
IPMC.Snoop.receivedWholePacket  
IPMC.Snoop.wholePktLenMismatch  
IPMC.Snoop.delOif  
IPMC.Snoop.addOif  
IPMC.Snoop.KernDelL2Cache



IPMC.Snoop.sendMLDQueryMsg  
 IPMC.Snoop.MLDQuerier  
 IPMC.Snoop.nMLDQuerier

## 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.I2CacheMiss

---

### 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.I3CacheMiss

### 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% vld=%vId%

## Message Parameters

Name	Type
srcAddr	IPAddrN
grpAddr	IPAddrN
ifIndex	Port
vld	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



Name	Type
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

Name	Type
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
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.processIgmppReport

### 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
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 mismatch in the IP packet length field and the actual packet 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

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### 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

# 173 IPMC.SSMap Messages

IPMC.SSMap.pimNotifyJoin  
IPMC.SSMap.pimNotifyPrune  
IPMC.SSMap.ssmRangeSet  
IPMC.SSMap.ssmRangeUnSet

## IPMC.SSMap.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.SSMap.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.SSMap.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.SSMap.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

# 174 IPMC.VLAN Messages

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IPMC.VLAN.create  
IPMC.VLAN.delete  
IPMC.VLAN.addPort  
IPMC.VLAN.deletePort  
IPMC.VLAN.mismatchLocalGrpTree  
IPMC.VLAN.insertLocalFailed  
IPMC.VLAN.msdpEncapFail  
IPMC.VLAN.DelPortHal  
IPMC.VLAN.delMsgToPim  
IPMC.VLAN.InsRtrPort  
IPMC.VLAN.DelRtrPort  
IPMC.VLAN.addCacheHal  
IPMC.VLAN.delInPortHal  
IPMC.VLAN.delCacheHal  
IPMC.VLAN.addPortHal  
IPMC.VLAN.addVifHal  
IPMC.VLAN.addVifPortHal  
IPMC.VLAN.addCachePortHal  
IPMC.VLAN.delVifHal  
IPMC.VLAN.flushCacheHal  
IPMC.VLAN.flushPortHal  
IPMC.VLAN.setVlanState

## 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
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
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
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

Name	Type
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

# 175 IPMC.VSM Messages

IPMC.VSM.CIntInitFail  
IPMC.VSM.SetAppDataFail  
IPMC.VSM.AllocBufFail  
IPMC.VSM.AllocAppDataFail  
IPMC.VSM.GetISCStateFail  
IPMC.VSM.CreatISC  
IPMC.VSM.CreatCkptTxTimer  
IPMC.VSM.DelISC  
IPMC.VSM.DelCkptTxTimer  
IPMC.VSM.UpdtISC  
IPMC.VSM.StateChgNtfn  
IPMC.VSM.ISCUp  
IPMC.VSM.AppDataNull  
IPMC.VSM.ISCDown  
IPMC.VSM.AllocISCNodeFail  
IPMC.VSM.ISCPortInstcInv  
IPMC.VSM.GetISCPortInstcFail  
IPMC.VSM.CreatMLAG  
IPMC.VSM.GetLocMLAGPortInstcFail  
IPMC.VSM.GetRmtMLAGPortStateFail  
IPMC.VSM.GetLocMLAGPortStateFail  
IPMC.VSM.MLAGPortInstcInv  
IPMC.VSM.DeIMLAG  
IPMC.VSM.NtfyMLAGStateChg  
IPMC.VSM.RmtMLAGPortDown  
IPMC.VSM.GetISCPortFail  
IPMC.VSM.RemMLAGIndxFmRecvr  
IPMC.VSM.RemRecvrFmGrp  
IPMC.VSM.RemMLAGIndxFmRtrPort  
IPMC.VSM.StrtFastAgeOut  
IPMC.VSM.GetISCIndxFail  
IPMC.VSM.IgnRecvr  
IPMC.VSM.SendQuery  
IPMC.VSM.LeakIGMPGrp  
IPMC.VSM.AllocMLAGNodeFail  
IPMC.VSM.AddMLAGIndxToISC  
IPMC.VSM.FndISCRecvrFail

IPMC.VSM.FndGrpFail  
IPMC.VSM.AddISCRtrPort  
IPMC.VSM.FndMLAGPortFail  
IPMC.VSM.ISCPortInstcChg  
IPMC.VSM.FndRecvrFail  
IPMC.VSM.UpdtRmnRecvrTime  
IPMC.VSM.UpdtRmnGrpTime  
IPMC.VSM.IgnLeaveMsg  
IPMC.VSM.SnoopLeaveOnISC  
IPMC.VSM.LeakIGMPLeave  
IPMC.VSM.FndISCPortFail  
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IPMC.VSM.SkipAddMLDv2RmtStateUnk  
IPMC.VSM.SendMLDQuery

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## IPMC.VSM.CIntInitFail

---

### 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.DeIISC

### 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	uint

## IPMC.VSM.CreatMLAG

### Description

This is a 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 MLAG %mlag%

## Message Parameters

Name	Type
mlag	uint16

## IPMC.VSM.DeIMLAG

### 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

Name	Type
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.FndISCRcvrFail

---

### 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%, isIdx %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 %m1ag%, receiver not added

### Message Parameters

Name	Type
m1ag	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 since 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 %m1ag%, 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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MPLS.ChgStaticEgrLSPState  
MPLS.ChgIfState  
MPLS.ChgProtoState  
MPLS.CfgLbMgrFail

---

## 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 unexpected 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
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.NhIfeSetObj

### 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.NhIfeGetObj

## 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: %hIndex%, 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%, Action=%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

Name	Type
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

Name	Type
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

# 177 MPLS.BandwidthMgr Messages

---

# 178 MPLS.BFD Messages

MPLS.BFD.DebugSummary  
MPLS.BFD.DebugVerbose  
MPLS.BFD.DebugData

## 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



# 179 MPLS.CES Messages

MPLS.CES.UpdtNamedLSP  
MPLS.CES.UpdtBestLSP  
MPLS.CES.DelNamedLSP  
MPLS.CES.DelBestLSP  
MPLS.CES.UpdtVCLSP  
MPLS.CES.LSPUnusable  
MPLS.CES.LSPNotFnd  
MPLS.CES.NoTunILSP  
MPLS.CES.VCLSPNotRdy  
MPLS.CES.UpdtPW  
MPLS.CES.RemPW  
MPLS.CES.AddrFamUnsprt  
MPLS.CES.EnterTrigFunc  
MPLS.CES.NoUsableTunILSP  
MPLS.CES.SvcDsbl  
MPLS.CES.PeerStateDump  
MPLS.CES.LDPAAdjCallback  
MPLS.CES.LDPAAdjMsg  
MPLS.CES.SetPWUptime  
MPLS.CES.ClrPWUptime  
MPLS.CES.VCLSPDump  
MPLS.CES.RSMRdy  
MPLS.CES.TransportLSPDebug  
MPLS.CES.UpdtFEC  
MPLS.CES.CreatVCFECFail  
MPLS.CES.SendVCFECFail  
MPLS.CES.EnterFn  
MPLS.CES.RmtPeerCfgMismatch  
MPLS.CES.PWStateChg  
MPLS.CES.PWNotFnd  
MPLS.CES.PWStateBitmap  
MPLS.CES.ParmMismatchRcvryNotCfg

## MPLS.CES.UpdtNamedLSP

---

### Description

Debug tracing for named LSPs being updated by the LSP manager.

### Remedy

No action required - Informational message only

### Severity

Debug-Verbose

### Message Text

Updating Named LSP %lspName%: %message%

### Message Parameters

Name	Type
lspName	String
message	Printf

## MPLS.CES.UpdtBestLSP

---

### Description

Debug trace for best-LSP-to-dest updates from LSP manager.

### Remedy

No action required - Informational message only

### Severity

Debug-Verbose

### Message Text

Updating best LSP. Dest %destAddr%: %message%

## Message Parameters

Name	Type
destAddr	IPAddress
message	Printf

## MPLS.CES.DelNamedLSP

### Description

Debug trace for named LSPs being deleted from LSP manager.

### Remedy

No action required - Informational message only

### Severity

Debug-Verbose

### Message Text

Deleting Named LSP named %1spName%: %message%

## Message Parameters

Name	Type
lspName	String
message	Printf

## MPLS.CES.DelBestLSP

### 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

Deleting best LSP. %message%

## Message Parameters

Name	Type
message	Printf

## MPLS.CES.UpdtVCLSP

### Description

Debug trace for updating the VC LSP, as notified by data plane manager.

### Remedy

No remedy is available.

### Severity

Debug-Verbose

### Message Text

Updating virtual channel LSP. CES named %cesName%, VC ID %vcId%: %message%

### Message Parameters

Name	Type
cesName	String
vcId	uint32
message	Printf

## MPLS.CES.LSPUnusable

### Description

The LSP has not yet been established or is configured as not usable by CES.

### Remedy

No remedy is available.

## Severity

Notice

## Message Text

LSP %1spName% not useable by CES: %reason%

## Message Parameters

Name	Type
lspName	String
reason	String

## MPLS.CES.LSPNotFnd

### Description

While configuring a named LSP to an CES 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 %1spName% not found.

## Message Parameters

Name	Type
lspName	String

---

## MPLS.CES.NoTunLSP

---

### Description

No LSPs have been manually added for this peer, and no LSPs have been fed to CES by the LSP manager.

### Remedy

Establish tunnel LSPs for this peer using LDP, RSVP-TE or static LSPs.

### Severity

Notice

### Message Text

There are no tunnel LSPs for the peer at %peerAddr%

### Message Parameters

Name	Type
peerAddr	IPAddress

---

## MPLS.CES.VCLSPNotRdy

---

### Description

The data plane manager has not notified CES about a VC label for this pseudo wire.

### Remedy

Wait for the VC LSP to become ready.

### Severity

Notice

### Message Text

The Virtual Circuit LSP for the peer at %peerAddr% on CES %cesName% is not ready.

## Message Parameters

Name	Type
cesName	String
peerAddr	IPAddress

## MPLS.CES.UpdtPW

### Description

Debug tracing for pseudo-wire updates.

### Remedy

No action required - Informational message only

### Severity

Debug-Summary

### Message Text

Updating Pseudo-Wire. CES %cesName%, Peer %peerAddr%: %message%

## Message Parameters

Name	Type
cesName	String
peerAddr	IPAddress
message	Printf

## MPLS.CES.RemPW

### Description

Debug tracing for removing the pseudo-wire from hardware.

### Remedy

No action required - Informational message only

## Severity

Debug-Verbose

## Message Text

Removing Pseudo-Wire. CES %cesName%, Peer %peerAddr%: %message%

## Message Parameters

Name	Type
cesName	String
peerAddr	IPAddress
message	Printf

## MPLS.CES.AddrFamUnsprt

### Description

AF\_INET(0x2) is the only address family currently supported.

### Remedy

Use an AF\_INET address.

### Severity

Notice

### Message Text

Address family (%addrFamily%) not supported.

### Message Parameters

Name	Type
addrFamily	xInt32

## MPLS.CES.EnterTrigFunc

### Description

The function named was called. This function is triggered by other MPLS components.



## Remedy

No action required - Informational message only

## Severity

Debug-Verbose

## Message Text

%funcName% entered.

## Message Parameters

Name	Type
funcName	String

# MPLS.CES.NoUsableTunILSP

## Description

No usable LSPs have been fed to CES by the LSP manager.

## Remedy

Check the LDP, RSVP-TE, or static LSP configuration to establish usable LSPs.

## Severity

Info

## Message Text

No usable LSP for %peerAddr%: %message%

## Message Parameters

Name	Type
peerAddr	IPAddress
message	String

---

## MPLS.CES.SvcDsbl

---

### Description

Notification about the state of CES services for the specified CES instance.

### Remedy

Enable services.

### Severity

Info

### Message Text

CES services are disabled for CES %cesName%. PW not established.

### Message Parameters

Name	Type
cesName	String

---

## MPLS.CES.PeerStateDump

---

### Description

Dump of a peer's state bitmap, used to determine display messages regarding a peer's state.

### Remedy

No action required - Informational message only

### Severity

Debug-Data

### Message Text

Peer: %peerAddr%, state bitmap: %peerStateBitmap%

## Message Parameters

Name	Type
peerAddr	IPAddress
peerStateBitmap	xInt32

## MPLS.CES.LDPAdjCallback

### Description

Debug tracing for the LDP adjacency callback.

### Remedy

No action required - Informational message only

### Severity

Debug-Data

### Message Text

LDP Adjacency callback for CES %cesName%, peer %adjAddr%: %message%

## Message Parameters

Name	Type
cesName	String
adjAddr	IPAddress
message	Printf

## MPLS.CES.LDPAdjMsg

### Description

debug tracing for targeted LDP adjacency events

### Remedy

No action required - Informational message only

## Severity

Debug-Data

## Message Text

CES %cesName%, peer %peerAddr%: %message%

## Message Parameters

Name	Type
cesName	String
peerAddr	IPAddress
message	Printf

# MPLS.CES.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 action required - Informational message only

## Severity

Debug-Data

## Message Text

Pseudo-Wire for peer %peerAddr% moving to UP state. Setting UP time

## Message Parameters

Name	Type
peerAddr	IPAddress

---

## MPLS.CES.ClrPWUptime

---

### Description

This indicates that the PW is leaving the UP state, so the UP time is being cleared

### Remedy

No action required - Informational message only

### Severity

Debug-Data

### Message Text

Pseudo-Wire for peer `%peerAddr%` leaving UP state. Clearing UP time

### Message Parameters

Name	Type
peerAddr	IPAddress

---

## MPLS.CES.VCLSPDump

---

### Description

Debug trace for updating the VC LSP, as notified by data plane manager.

### Remedy

No action required - Informational message only

### Severity

Debug-Data

### Message Text

Display Virtual Circuit LSP Info for CES `%cesName%`, peer `%peerAddr%` VC info: ILM `%ilmInstance%` / `%rxLabel%`, NHLFE `%nhlfeInstance%` / `%txLabel%`

## Message Parameters

Name	Type
cesName	String
peerAddr	IPAddress
ilmInstance	uint32
rxLabel	xInt32
nhIfInstance	uint32
txLabel	xInt32

## MPLS.CES.RSMRdy

### Description

Debug tracing for the Route Selection Manager Ready notification.

### Remedy

No action required - Informational message only

### Severity

Debug-Data

### Message Text

Route Selection Manager. %message%

### Message Parameters

Name	Type
message	Printf

## MPLS.CES.TransportLSPDebug

### Description

Debug message for looking at Transport LSP changes.

### Remedy

No action required - Informational message only

## Severity

Debug-Data

## Message Text

%message%

## Message Parameters

Name	Type
message	Printf

# MPLS.CES.UpdtFEC

---

## 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.CES.CreatVCFECFail

---

## Description

An attempt to create a Virtual Circuit Forwarding Equivalency Class object failed. Currently, the only way this can fail is if an unsupported address family is used as the peer IP Address. 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

Use a peer IP Address of type AF\_INET

## 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.CES.SendVCFECFail

### Description

An attempt to send a Virtual Circuit FEC object failed. As a result, either a Psuedo-Wire will not be established to the specified peer, or the status of an existing Psuedo-Wire will not be sent to the peer.

### Remedy

Try deleting the peer and re-adding it.

### Severity

Error

### Message Text

An attempt to send a Virtual Circuit Forwarding Equivalency Class object for peer %peerAddr% failed.

### Message Parameters

Name	Type
peerAddr	IPAddress



## MPLS.CES.EnterFn

---

### Description

Developer debug. Log when entering a function.

### Remedy

No action required - Informational message only

### Severity

Debug-Data

### Message Text

Enter %func%

### Message Parameters

Name	Type
func	String

## MPLS.CES.RmtPeerCfgMismatch

---

### Description

To establish a TDM Psuedo-Wire, there are a variety of parameters exchanged between the peers. These parameters need to be compatible in order for the Psuedo-Wire to become active.

### Remedy

Correct the mismatched values for the particular configuration so that both ends of the Psuedo-Wire match.

### Severity

Error

### Message Text

Remote Peer Configuration for Psuedo-Wire %peerAddr% is mismatched. %mismatch%

## Message Parameters

Name	Type
peerAddr	IPAddress
mismatch	String

## MPLS.CES.PWStateChg

### Description

The Psuedo-Wire state has changed.

### Remedy

No action required. Informational message only.

### Severity

Notice

### Message Text

Pseudo-Wire for peer %peerAddr% state transition from %oldState% to %newState%

## Message Parameters

Name	Type
peerAddr	IPAddress
oldState	String
newState	String

## MPLS.CES.PWNotFnd

### Description

A PW peer lookup has failed. The IP address specified may be bad, or the Psuedo-Wire peer has been deleted prior to the lookup being performed.

### Remedy

Verify that the Psuedo-Wire peer IP Address exists.

## Severity

Warning

## Message Text

Unable to find Pseudo-Wire with address `%peerAddr%` on Circuit Emulation Service `%cesName%`

## Message Parameters

Name	Type
cesName	String
peerAddr	IPAddress

## MPLS.CES.PWStateBitmap

### Description

Display Psuedo-Wire peer state bitmap whenever a state change occurs. The state bitmap represents the sub-state when the Psuedo-Wire is in Signalling state.

### Remedy

No action required. Informational message only.

### Severity

Debug-Summary

### Message Text

Pseudo-Wire for peer `%peerAddr%` state:`%state%` State Bitmap `%stateBitmap%`  
(`%stateBitmapStr%`)(`%stateBitmapTranslation%`)

### Message Parameters

Name	Type
peerAddr	IPAddress
state	String
stateBitmap	xInt32
stateBitmapStr	String
stateBitmapTranslation	String

## MPLS.CES.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 %cesName% peer %peerAddr% vcid %vcId% and the peer has released our VC label.

### Message Parameters

Name	Type
cesName	String
peerAddr	IPAddress
vcId	uint32

# 180 MPLS.CSPF Messages

---

MPLS.CSPF.InternalDev  
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MPLS.CSPF.LinkUpdtLinkTypeUnk  
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MPLS.CSPF.MsgLinkUpdateRemoteAddr

## 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

Name	Type
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% teRtrId: %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
rtrId	IP
correl	uint32
isFlush	uint32

Name	Type
numLoc	uint32
numRem	uint32

## MPLS.CSPF.MsgLinkUpdate2

### Description

A message was received for a Link Update (additional info).

### Remedy

Development Informational Only.

### Severity

Debug-Verbose

### Message Text

Link Update (cont): InkJCorr: %lnkJCorr% InkJType: %lnkJType% InkJId: %lnkJId% InkJLocalId: %lnkJLocalId% teMetric: %teMetric% maxBW: %maxBW% maxRsvBW: %maxRsvBW% resClass: %resClass%

### Message Parameters

Name	Type
InkJCorr	uint32
InkJType	uint32
InkJId	uint32
InkJLocalId	uint32
teMetric	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

# 181 MPLS.DPM Messages

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 MPLS.DPM.HalNhlfeUpdate  
 MPLS.DPM.HalIImUpdate  
 MPLS.DPM.LSI  
 MPLS.DPM.DB  
 MPLS.DPM.UNEX

## 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 unexpected 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 manager 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 subcomponent.

### 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 operation 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 operation has occurred.

## 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	srclAddress

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
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%. interface = %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

Name	Type
EgrBwReq	uInt32
InUsePri	uInt32
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%. interface = %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.HalNhlfUpdate

---

### 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.HallmUpdate

### 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 subcomponent.

## 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 subcomponent.

## 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

# 182 MPLS.HAL Messages

MPLS.HAL.clearIImStatsFail  
MPLS.HAL.clearIImStatsSuccess  
MPLS.HAL.sendClearIImStats  
MPLS.HAL.createClearIImStats

## MPLS.HAL.clearIImStatsFail

### 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.clearIImStatsSuccess

### 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

# 183 MPLS.L2VPN Messages

MPLS.L2VPN.updateNamedLsp  
MPLS.L2VPN.updateBestLsp  
MPLS.L2VPN.deleteNamedLsp  
MPLS.L2VPN.deleteBestLsp  
MPLS.L2VPN.updateVcLsp  
MPLS.L2VPN.peerNotFound  
MPLS.L2VPN.lspNotUsable  
MPLS.L2VPN.lspNotFound  
MPLS.L2VPN.noTunnelLsps  
MPLS.L2VPN.vcLspNotReady  
MPLS.L2VPN.pseudoWireUpdate  
MPLS.L2VPN.pseudoWireRemove  
MPLS.L2VPN.unsupportedAddrFam  
MPLS.L2VPN.triggerFuncEnter  
MPLS.L2VPN.subCompDisabled  
MPLS.L2VPN.noUsableTunnelLsp  
MPLS.L2VPN.servicesDisabled  
MPLS.L2VPN.sendVcFecInfo  
MPLS.L2VPN.dumpPeerState  
MPLS.L2VPN.IdpAdjCallback  
MPLS.L2VPN.IdpAdjMsg  
MPLS.L2VPN.floodAdd  
MPLS.L2VPN.floodDelete  
MPLS.L2VPN.setPwUptime  
MPLS.L2VPN.clearPwUptime  
MPLS.L2VPN.mtuMismatch  
MPLS.L2VPN.noStorage  
MPLS.L2VPN.vcLspDump  
MPLS.L2VPN.fecSendFail  
MPLS.L2VPN.fecSendQueued  
MPLS.L2VPN.rsmReady  
MPLS.L2VPN.VplsRedundancyDebug  
MPLS.L2VPN.VplsRedundancyVerbose  
MPLS.L2VPN.receiveMacAddr  
MPLS.L2VPN.sendMacAddr  
MPLS.L2VPN.pseudoWireActivityCheck  
MPLS.L2VPN.EAPS\_Debug



MPLS.L2VPN.healthCheckVCCVFailure  
 MPLS.L2VPN.adjustSvcIf  
 MPLS.L2VPN.VplsTransportLspDebug  
 MPLS.L2VPN.VplsUpdateFec  
 MPLS.L2VPN.IdpStatusList  
 MPLS.L2VPN.IdpStatusListVerbose  
 MPLS.L2VPN.STPDebugSummary  
 MPLS.L2VPN.SpclFlushDebugSummary  
 MPLS.L2VPN.VplsMibDebug  
 MPLS.L2VPN.CreatVCFECFail  
 MPLS.L2VPN.SendVCFECFail  
 MPLS.L2VPN.RemL2VPNVLANTreeFail  
 MPLS.L2VPN.ChgPeerSrcAddrFail  
 MPLS.L2VPN.ERPS\_Debug  
 MPLS.L2VPN.ParmMismatchRcvryNotCfg  
 MPLS.L2VPN.VPLSStatusInfo  
 MPLS.L2VPN.ChgPWState

## 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 %1spName%: %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 %1spName% not useable by VPLS: %reason%

## Message Parameters

Name	Type
lspName	String
reason	String

## MPLS.L2VPN.IspNotFound

### 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 %1spName% 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.IdpAdjCallback

---

### 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.IdpAdjMsg

---

### 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 %vpplsName%: %msg%

## Message Parameters

Name	Type
vpplsName	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
vclId	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 %vpplsName%, peer %peerAddr% VC info: ILM %ilmInstance% / %rxLabel%, NHLFE %nhlfeInstance% / %txLabel%

## Message Parameters

Name	Type
vpplsName	String
peerAddr	IPAddress
ilmInstance	uint32
rxLabel	xInt32
nhlfeInstance	uint32
txLabel	xInt32

## MPLS.L2VPN.fecSendFail

### Description

Internal communication 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 communication 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 %vpplsName%, Peer %peerAddr%: %message%

### Message Parameters

Name	Type
vpplsName	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.IdpStatusList

---

### 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.IdpStatusListVerbose

### 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	slnt
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

Pseudo-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
rxLabel	xint32
txLabel	xint32



# 184 MPLS.L3VPN Messages

MPLS.L3VPN.CreatVREntry  
MPLS.L3VPN.CreatVRExit  
MPLS.L3VPN.CreatVRErr  
MPLS.L3VPN.DeIVREntry  
MPLS.L3VPN.DeIVRExit  
MPLS.L3VPN.CfgVRLblEntry  
MPLS.L3VPN.CfgVRLblExit  
MPLS.L3VPN.CfgVRLblErr  
MPLS.L3VPN.MibState  
MPLS.L3VPN.Trace1  
MPLS.L3VPN.Trace2  
MPLS.L3VPN.ChgVRLblInfo

## 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.DeIVREntry

### 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.DeIVRExit

### 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



# 185 MPLS.LabelMgr Messages

MPLS.LabelMgr.InternalDev  
MPLS.LabelMgr.InternalAudit  
MPLS.LabelMgr.InternalExcept  
MPLS.LabelMgr.InternalProb

## 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

Name	Type
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

# 186 MPLS.LDP Messages

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MPLS.LDP.InternalDev  
MPLS.LDP.InternalAudit  
MPLS.LDP.InternalExcept  
MPLS.LDP.InternalProb  
MPLS.LDP.RxHelloMsg  
MPLS.LDP.TxHelloMsg  
MPLS.LDP.RxInitializationMsg  
MPLS.LDP.TxInitializationMsg  
MPLS.LDP.RxKeepAliveMsg  
MPLS.LDP.TxKeepAliveMsg  
MPLS.LDP.SessnUp  
MPLS.LDP.SessnDown  
MPLS.LDP.ProtocolError  
MPLS.LDP.LogSessnMsgFail  
MPLS.LDP.ChgProtoState

## 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

Name	Type
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	uint32
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	srclIP
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 session 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

Name	Type
role	String
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

# 187 MPLS.Ping Messages

MPLS.Ping.Info  
MPLS.Ping.DebugSummary  
MPLS.Ping.DebugVerbose  
MPLS.Ping.DebugData  
MPLS.Ping.Entry  
MPLS.Ping.Exit  
MPLS.Ping.pingPacketReceived  
MPLS.Ping.pingOpenSocketError  
MPLS.Ping.pingBindError  
MPLS.Ping.pingReceiveError  
MPLS.Ping.pingParseError  
MPLS.Ping.pingReply  
MPLS.Ping.dispatch  
MPLS.Ping.pingPacketNotEgress  
MPLS.Ping.pingUnknownPingId  
MPLS.Ping.pingRx  
MPLS.Ping.pingTxIP  
MPLS.Ping.pingTxOAM  
MPLS.Ping.pingTxEcho  
MPLS.Ping.SetIPSockOptFail  
MPLS.Ping.SetMPLSSockOptFail  
MPLS.Ping.ParmNull  
MPLS.Ping.SendEchoReplyFail  
MPLS.Ping.RxMPLSOAMPktSmall  
MPLS.Ping.RxMPLSOAMPktTLVSmall  
MPLS.Ping.RxMPLSOAMPktFECSmall  
MPLS.Ping.RxMPLSOAMPktFECTypeUnk  
MPLS.Ping.RxMPLSOAMPktTLVTypeUnk  
MPLS.Ping.RxMPLSOAMPktProtUnk  
MPLS.Ping.RxMPLSOAMPktIPVerUnk  
MPLS.Ping.RxMPLSOAMPktIPProtUnk  
MPLS.Ping.FndLSPForFECFail  
MPLS.Ping.RxMPLSOAMPktLabExcd  
MPLS.Ping.FndLSPByNameFail  
MPLS.Ping.AppndDownstrmMapLenInv  
MPLS.Ping.RxMPLSOAMPktIPv4Small



---

## 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 incoming 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
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	slnt
ip	SockAddr
port	ulnt
err	slnt

## 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 incoming 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	slnt
err	slnt

## 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.

# 188 MPLS.RSVPTTE Messages

MPLS.RSVPTTE.InternalDev  
MPLS.RSVPTTE.InternalAudit  
MPLS.RSVPTTE.InternalExcept  
MPLS.RSVPTTE.InternalProb  
MPLS.RSVPTTE.ChgIngrLSPState  
MPLS.RSVPTTE.ChgProtoState  
MPLS.RSVPTTE.LSPPathActv

## MPLS.RSVPTTE.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

# 189 MPLS.RtMgr Messages

MPLS.RtMgr.QueueStatus  
MPLS.RtMgr.RegisterFailed  
MPLS.RtMgr.RtMgrStatus  
MPLS.RtMgr.FSMStatus  
MPLS.RtMgr.QueryResponse  
MPLS.RtMgr.RouteUpdate  
MPLS.RtMgr.NonTEQuery  
MPLS.RtMgr.RawRouteUpdate

## 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



# 190 MPLS.SCK Messages

MPLS.SCK.Open  
MPLS.SCK.Error  
MPLS.SCK.Warning  
MPLS.SCK.Notice  
MPLS.SCK.Info  
MPLS.SCK.DebugSummary  
MPLS.SCK.DebugVerbose  
MPLS.SCK.DebugData  
MPLS.SCK.OpenError  
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MPLS.SCK.PathErrlPHdr  
MPLS.SCK.ResvErrlPHdr  
MPLS.SCK.PathTearlPHdr  
MPLS.SCK.ResvTearlPHdr  
MPLS.SCK.ConfirmlPHdr  
MPLS.SCK.DreqlPHdr  
MPLS.SCK.DreplPHdr  
MPLS.SCK.BundlelPHdr  
MPLS.SCK.AcklPHdr  
MPLS.SCK.NotifylPHdr  
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MPLS.SCK.HellolPHdr  
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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 unexpected 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. 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

SocketID = %socketID%. %msg4% = %retcode%. %msg1% = %addrFam%. %msg2% = %mplsProt%.  
%msg3% = %sock\_type%

### Message Parameters

Name	Type
socketID	sInt
addrFam	String

Name	Type
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
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	slnt
T_R_bits	String
socketID	slnt

## 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

Name	Type
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. 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

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
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
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 checksum = %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%. checksum = %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

Name	Type
tos	String
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%. checksum = %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 checksum = %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 cksum = %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%. checksum = %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%. checksum = %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%. checksum = %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.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%. checksum = %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

Name	Type
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.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%. checksum = %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



Name	Type
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%. checksum = %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%. checksum = %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%. checksum = %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%. checksum = %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
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

Name	Type
dst_addr	dstIPAddress
rsvp_type	String
tos	String
tot_ip_len	uint
pkt_ttl	uint
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

Name	Type
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
rsvp_type	String
tos	String
tot_ip_len	uint
pkt_ttl	uint
router_alert	String
pkt_dir	String

## MPLS.SCK.DreplpHdr

### 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

Name	Type
dst_addr	dstIPAddress
rsvp_type	String
tos	String
tot_ip_len	uint
pkt_ttl	uint
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

Name	Type
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
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

# 191 MPLS.TPM Messages

---

MPLS.TPM.DebugSummary  
MPLS.TPM.DebugVerbose  
MPLS.TPM.DebugData  
MPLS.TPM.EnterFnc  
MPLS.TPM.AddEntFail  
MPLS.TPM.UpdtEntFail  
MPLS.TPM.DelEntFail  
MPLS.TPM.CBDataIgn  
MPLS.TPM.CBParmlgn  
MPLS.TPM.CBDataNotFnd  
MPLS.TPM.CBParmNotFnd  
MPLS.TPM.CBDataNull  
MPLS.TPM.StateChgInv  
MPLS.TPM.AddWorkQueFail  
MPLS.TPM.EventInv  
MPLS.TPM.DebugFSM

## 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 identified 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.CBDatalign

### 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.CBParamIgn

### 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.CBParamNotFnd

### 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.CBDDataNull

### 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 properly; however, if 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 properly; however, if 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

# 192 MRP Messages

MRP.DebugSummary  
MRP.DebugVerbose  
MRP.DebugData  
MRP.ParmInv  
MRP.ERROR  
MRP.SMTrace

## 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



# 193 msdp Messages

msdp.DebugSummary  
msdp.DebugVerbose  
msdp.DebugData  
msdp.Init  
msdp.DeInit  
msdp.NodeNotFnd  
msdp.SockCreatFail  
msdp.SockOptSetFail  
msdp.MemAllocFail  
msdp.SockConnectFail  
msdp.DataTxFail  
msdp.DataRxFail

## 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

# 194 msdp.events Messages

---

```
msdp.events.DebugSummary
msdp.events.DebugVerbose
msdp.events.DebugData
msdp.events.HoldTmrExp
msdp.events.PeerFSMEvent
msdp.events.PeerStart
msdp.events.SockBindFail
msdp.events.FSMError
msdp.events.AuthCfgFail
msdp.events.RejAnonConn
msdp.events.LocAddrMismatch
msdp.events.TcpFail
msdp.events.TcpClosed
msdp.events.ReadyToSend
msdp.events.SACacheAgeout
msdp.events.ReRunRpf
msdp.events.RpfResult
msdp.events.PurgeSACache
msdp.events.LocalSAAdd
msdp.events.LocalSADel
msdp.events.SAAdvTmrExp
msdp.events.MarkRpfRun
msdp.events.RunPeerRpf
msdp.events.PeerRpfFail
msdp.events.NoRpfPeer
```

## 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

# 195 msdp.extif Messages

---

```
msdp.extif.DebugSummary
msdp.extif.DebugVerbose
msdp.extif.DebugData
msdp.extif.Reg
msdp.extif.RtMgrPrefixRegFail
msdp.extif.RtNotif
msdp.extif.UnkRtNotif
msdp.extif.NotifyPIM
msdp.extif.ClientReg
msdp.extif.SGRegByPIM
msdp.extif.SGUnRegByPIM
msdp.extif.RtNotifFromBGP
msdp.extif.RxMsgFromClient
msdp.extif.SendRtReqToBGP
msdp.extif.RxSyncRspFromBGP
msdp.extif.SendGrpNotifToPIM
msdp.extif.RxMsgFromPIM
msdp.extif.RxEntriesSGfromPIM
msdp.extif.RxDupRegMsgFromPIM
msdp.extif.RxDupUnRegMsgFromPIM
msdp.extif.RxDupSAFromPIM
```

## 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.TxSAResp  
msdp.msgs.InitialSATx  
msdp.msgs.TxSA  
msdp.msgs.TxSAReq  
msdp.msgs.SAReqNotSent  
msdp.msgs.RxFrmMeshGrp  
msdp.msgs.NumPeerSACacheExcd  
msdp.msgs.NumRejSACacheExcd  
msdp.msgs.TXSAEncap  
msdp.msgs.EncapFree  
msdp.msgs.DupEncapDataRx

---

## 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 encapsulated 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.TxSReq

---

### 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	slnt32

---

## 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 %1en%

## Message Parameters

Name	Type
len	sInt32

## msdp.msgs.DupEncapDataRx

### Description

This event is about reception of a duplicate MSDP SA msg with encapsulated 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

# 197 nl Messages

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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 VmgrProtocollfRegister()

### 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 VmgrProtocollfDeRegister()

## 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 might 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%\", authentication %auth%

### Message Parameters

Name	Type
protocol	String
user	String
mac	MAC

Name	Type
port	SlotPort
vlan	VLAN
auth	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%, Mac %mac% port %port% VLAN(s) \"%vlan%\" Protocol(s) \"%protocol%\"

## Message Parameters

Name	Type
user	String
mac	MAC
port	SlotPort
vlan	VLAN

Name	Type
protocol	String
module	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 nIvPif 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 nVPif 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
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



# 198 nl.dot1x Messages

---

```
nl.dot1x.init
nl.dot1x.backAuthSMTrans
nl.dot1x.authPaeSMTrans
nl.dot1x.AAAResult
nl.dot1x.eapolPktRcvd
nl.dot1x.authPaeSMEvent
nl.dot1x.backAuthSMEvent
nl.dot1x.eapPktSent
nl.dot1x.eapolPktSent
nl.dot1x.timerExpiry
nl.dot1x.AAAAuthFail
```

## 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

# 199 nl.mac Messages

---

nl.mac.init  
nl.mac.NewClient  
nl.mac.DeleteClient  
nl.mac.AAAResult  
nl.mac.AAARequest  
nl.mac.FrameworkResult  
nl.mac.MacListEmpty

## 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.AAAResult

---

### 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

# 200 nl.web Messages

---

nl.web.init  
nl.web.sessionRefreshFailed

## 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

# 201 BOOTP Messages

BOOTP.RxReqPkt  
BOOTP.RxReqPktDump

## 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% from %ciaddr%, %fip% sent to %tip%

### Message Parameters

Name	Type
bytes	uint
vlan	VLAN
fip	srcSockAddr
tip	dstSockAddr
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% from %ciaddr%, %fip% sent to %tip%

### Message Parameters

Name	Type
bytes	uint
vlan	VLAN
fip	srcSockAddr
tip	dstSockAddr
port	ingressSlotPort
ciaddr	MAC
buffer	Buf-ptr
bufferLen	Buf-len



# 202 BOOTP.Client Messages

---

```
BOOTP.Client.RxEventVLANInv
BOOTP.Client.RxEvent
BOOTP.Client.AllocNetRsrcFail
BOOTP.Client.RxReply
BOOTP.Client.RxReplyDump
BOOTP.Client.RxBOOTPAddrInv
BOOTP.Client.RxAddrInuse
BOOTP.Client.AssgnVLANIPAddr
BOOTP.Client.RemVLANIPAddr
BOOTP.Client.SendCkptData
BOOTP.Client.RecvCkptData
BOOTP.Client.AutoPrvsnEnbl
BOOTP.Client.AutoPrvsnDone
BOOTP.Client.AutoPrvsnTFTPUnrch
BOOTP.Client.AutoPrvsnFileNameInv
BOOTP.Client.AutoPrvsnReadNVRAMFail
BOOTP.Client.AutoPrvsnWritNVRAMFail
BOOTP.Client.AutoPrvsnOpenFileFail
BOOTP.Client.AutoPrvsnDHCPUnrch
BOOTP.Client.AutoPrvsnDHCPOpt43Inv
BOOTP.Client.AutoPrvsnFileNotExist
BOOTP.Client.AutoPrvsnVLANIPAlrdyCfg
```

## BOOTP.Client.RxEventVLANInv

---

### Description

An event for a vlan instance occurred, 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% occurred 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 incoming 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 %sourceIP%, type %opcode%, length %len%.

## Message Parameters

Name	Type
vlan	uint32
opcode	uint
len	uint
sourceIP	srcIP

## BOOTP.Client.RxReplyDump

### Description

This message can be used to trace all incoming 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 %sourceIP%, type %opcode%, length %len%.

## Message Parameters

Name	Type
vlan	uint32
opcode	uint
len	uint
sourceIP	srcIP
buff	Buf-ptr
bufflen	Buf-len

## BOOTP.Client.RxBOTPAAddrInv

---

### 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 %srcIP% that's already in use by %mac%

## Message Parameters

Name	Type
vlan	VLAN
ip	IP
srcIP	srcIP
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 because 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 because 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

# 203 BOOTP.Relay Messages

BOOTP.Relay.RxPktOpcodeInv  
BOOTP.Relay.RxPktSizInv  
BOOTP.Relay.FwdReqFailCfgInv  
BOOTP.Relay.FwdFailIPInv  
BOOTP.Relay.FwdFailVLANLpbk  
BOOTP.Relay.FwdReqOK  
BOOTP.Relay.FwdReqTxIPFail  
BOOTP.Relay.FwdReqTxVLANFail  
BOOTP.Relay.FwdReplyTxOK  
BOOTP.Relay.FwdReplyTxFail  
BOOTP.Relay.LkupIfIndxFail  
BOOTP.Relay.FndIfFail  
BOOTP.Relay.FwdReplyFailCfgInv  
BOOTP.Relay.IPFwdOffRxVLAN  
BOOTP.Relay.IPFwdOffTxVLAN  
BOOTP.Relay.FwdFailRtInv  
BOOTP.Relay.PktReqAct  
BOOTP.Relay.PktReplyChkFail  
BOOTP.Relay.FwdReqDump  
BOOTP.Relay.FwdReplyDump  
BOOTP.Relay.UDPFwdVLAN  
BOOTP.Relay.UDPFwdHost  
BOOTP.Relay.SendCkptData  
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BOOTP.Relay.FwdReqFailDsbIVLAN  
BOOTP.Relay.FwdReplyFailDsbIVLAN  
BOOTP.Relay.RxReqDsbIVLAN  
BOOTP.Relay.RxReplyDsbIVLAN  
BOOTP.Relay.GiaddrMaxAtmpt  
BOOTP.Relay.Giaddr  
BOOTP.Relay.IPv6AddrNotCfg  
BOOTP.Relay.RxRelayPktInvPort

---

## 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 too 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 too 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 forward 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 forward 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	slnt

## BOOTP.Relay.LkupIfIdxFail

### Description

When enabled this message will be logged when a BOOTP/DHCP packet is received but the corresponding 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	slnt
ifindex	slnt

---

## 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 through 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 specified 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.FwdReqFailDsbIVLAN

---

### 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.FwdReplyFailDsbIVLAN

### 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.RxReqDsbIVLAN

### 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.RxReplyDsbIVLAN

### 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 automatically 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

# 204 BOOTP.Server Messages

---

```
BOOTP.Server.AllocSockFail
BOOTP.Server.RxPktPortInv
BOOTP.Server.RxPktInv
BOOTP.Server.RxPktOpcodeInv
BOOTP.Server.RxPktSizInv
BOOTP.Server.RxPktMsgTypeInv
BOOTP.Server.RxPktGwIPAddrInv
BOOTP.Server.IPAddrNotAvail
BOOTP.Server.CfgAddrRangeInv
BOOTP.Server.VLANIPNotCfg
BOOTP.Server.TxDHCPPkt
BOOTP.Server.TxDHCPPktDump
BOOTP.Server.RxPktMsgTypeDscvr
BOOTP.Server.RxPktMsgTypeReq
BOOTP.Server.RxPktMsgTypeRel
BOOTP.Server.RxPktMsgTypeDcln
BOOTP.Server.RxPktMsgTypeInfm
BOOTP.Server.IPAddrInUse
BOOTP.Server.SendCkptData
BOOTP.Server.RecvCkptData
```

## 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 only 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 too 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 too 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 only 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 requires 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	dstIP
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	dstIP
error	slnt
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.RxPktMsgTypeDecln

### 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



# 205 DHCPV6.Client Messages

---

DHCPV6.Client.DebugSummary  
DHCPV6.Client.DebugVerbose  
DHCPV6.Client.DebugData  
DHCPV6.Client.AllocMemFail  
DHCPV6.Client.DfltOptLkupFail  
DHCPV6.Client.CIntIdOptMiss  
DHCPV6.Client.ElapsedTimeOptMiss  
DHCPV6.Client.IdAssocNonTmpOptMiss  
DHCPV6.Client.IdAssocAddrOptMiss  
DHCPV6.Client.OptReqOptMiss  
DHCPV6.Client.InvSrvrId  
DHCPV6.Client.InvCIntId  
DHCPV6.Client.LocCIntIdMiss  
DHCPV6.Client.CIntIdMismatch  
DHCPV6.Client.RecvInvIPv6Addr  
DHCPV6.Client.DHCPv6SndPktFail  
DHCPV6.Client.RecvInvDHCPv6PfxOpt  
DHCPV6.Client.ActvLeaseNotExist

## 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.CIntIdOptMiss

### 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 option 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 option 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 option 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.LocCIntIdMiss

### 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.CIntIdMismatch

### 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.

# 206 DHCPV6.Relay Messages

DHCPV6.Relay.AddDlgtPfx  
DHCPV6.Relay.RenewDlgtPfx  
DHCPV6.Relay.DelDlgtPfx  
DHCPV6.Relay.AddRtDlgtPfx  
DHCPV6.Relay.AddRtDlgtPfxFail  
DHCPV6.Relay.DelRtDlgtPfx  
DHCPV6.Relay.RtLkupDlgtPfxGwFail

## 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
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.DeIDlgtPfx

---

### 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.DeIRtDIgtPfx

### 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



# 207 NetTools Messages

---

NetTools.PrvlgNotRoot  
NetTools.AllocRawSockFail  
NetTools.SetSockVRIDFail  
NetTools.AddSockToDsptchFail  
NetTools.DsptchClbkCtrlBlkNull  
NetTools.ICMPPktRxFmSock  
NetTools.ICMPFragSizeSmall  
NetTools.ICMPFragInvalid  
NetTools.ICMPFragPktRxFmSock  
NetTools.AllocUDPSockFail  
NetTools.BindUDPSockFail  
NetTools.ICMPPktRxSizeSmall  
NetTools.RxPingReply  
NetTools.ConnectUDPSockFail  
NetTools.AllocTCPSockFail  
NetTools.BindTCPSockFail  
NetTools.ListenTCPSockFail  
NetTools.AcceptTCPSockFail  
NetTools.ConnectTCPSockFail  
NetTools.InitVLANLibFail  
NetTools.BindICMPSockFail  
NetTools.RxUDPPingReply  
NetTools.BindEchoSockFail  
NetTools.AllocPFSockFail  
NetTools.ProcTrackingEvent  
NetTools.AllocEPFSockFail  
NetTools.PingTrackAddFail  
NetTools.PingTrackDelFail  
NetTools.PingTrackAdd  
NetTools.PingTrackDel  
NetTools.TCPPortTrackAdd  
NetTools.TCPPortTrackDel  
NetTools.TCPPortTrackAddFail  
NetTools.TCPPortTrackDelFail  
NetTools.TCPPortTrackConnected  
NetTools.TCPPortTrackConnectFail  
NetTools.TCPPortTrackEntryAddOK

```
NetTools.TCPPortTrackEntryDelOK
NetTools.TCPPortTrackMaxEntries
NetTools.TCPPortTrackOKNotify
NetTools.TCPPortTrackFailNotify
NetTools.TCPPortTrackDebug
NetTools.DebugSummary
NetTools.Error
NetTools.TCPSockGetPeerNameFail
NetTools.SockBindVLANFail
NetTools.SendCkptData
NetTools.RecvCkptData
NetTools.IPv6HopLmtMisMatch
```

## 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 receiving 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 Extreme 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.SetSockVRIDFail

### Description

Can't set VR ID 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 set VR ID %vrid% for socket %socket%- %type% error %error%

## Message Parameters

Name	Type
vrid	sInt
socket	sInt
type	uInt
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 operation 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 fragment is too small to identify 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 too 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 incoming 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 `icmpln` 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

Name	Type
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%)

### Message Parameters

Name	Type
event	uint
ip	dstSockAddr
vrid	uint
freq	uint
cfgMis	uint16
curMis	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
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 occurred.

### Remedy

Please contact Extreme Networks with the error message and the conditions under which it occurred.

### Severity

Debug-Summary

### Message Text

%reason%

## Message Parameters

Name	Type
reason	Printf

## NetTools.Error

---

### Description

This message is displayed when a software error has occurred.

### Remedy

Please contact Extreme Networks with the error message and the conditions under which it occurred.

### 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

# 208 NetTools.DNSClient Messages

---

```
NetTools.DNSClient.DmnName
NetTools.DNSClient.TryNum
NetTools.DNSClient.NetSrvr
NetTools.DNSClient.SrvrRtrnCode
NetTools.DNSClient.TryRslvAsIs
NetTools.DNSClient.ReqNotFnd
NetTools.DNSClient.RxPktInv
NetTools.DNSClient.IPAddrInv
NetTools.DNSClient.NetSrvrNotCfg
NetTools.DNSClient.RslvSrchFail
NetTools.DNSClient.SrchReq
NetTools.DNSClient.TryNxtSrvr
NetTools.DNSClient.RetrySrchReq
NetTools.DNSClient.SrchReqFail
NetTools.DNSClient.RslvSendFail
NetTools.DNSClient.TryRslvHostDmn
NetTools.DNSClient.NetToolsNotCnct
NetTools.DNSClient.NetToolsRdy
NetTools.DNSClient.NetToolsNotRdy
NetTools.DNSClient.AllocBufFail
```

## 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 receiving packet error:%bytes%

## Message Parameters

Name	Type
bytes	slnt

## 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 connected 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 configuration (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

# 209 NetTools.DNSProxy Messages

---

NetTools.DNSProxy.CreatFail  
NetTools.DNSProxy.AllocFail  
NetTools.DNSProxy.SendReqFail  
NetTools.DNSProxy.SendRspnsFail

## 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

# 210 NetTools.RouterAdv Messages

---

```
NetTools.RouterAdv.EnblIPv6RtrDiscFail
NetTools.RouterAdv.SchdRtrAdvertFail
NetTools.RouterAdv.VLANCfgNotFnd
NetTools.RouterAdv.AdvertStateNotFnd
NetTools.RouterAdv.AdvertInvCfg
NetTools.RouterAdv.AdvertPrefixInvCfg
NetTools.RouterAdv.VLANNotExist
NetTools.RouterAdv.AddrNotLinkLoc
NetTools.RouterAdv.AdvertInvPktShort
NetTools.RouterAdv.AdvertHopLmtInv
NetTools.RouterAdv.AdvertInvOptLenZero
NetTools.RouterAdv.AdvertInvICMPCodNotZero
NetTools.RouterAdv.AdvertInvParseFail
NetTools.RouterAdv.AdvertPrefixInv
NetTools.RouterAdv.ICMP6IfNotFnd
NetTools.RouterAdv.SockInitFail
NetTools.RouterAdv.InitRtrDiscMcastFail
NetTools.RouterAdv.DebugTrace
NetTools.RouterAdv.DNSSLSfxTxFail
NetTools.RouterAdv.AdvertRDNSSOptLenInv
NetTools.RouterAdv.RxAdvertRDNSSOpt
NetTools.RouterAdv.LkupRDNSSAddrFail
NetTools.RouterAdv.AdvertRDNSSOptLftimeInv
NetTools.RouterAdv.AdvertDNSSLOptLenInv
NetTools.RouterAdv.RxAdvertDNSSLOpt
NetTools.RouterAdv.LkupDNSSLSfxFail
NetTools.RouterAdv.AdvertDNSSLOptLftimeInv
```

## 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 DNSSSL suffix `%suffix%` as part of DNSSSL 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] rdns <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
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 Address %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] rdns <ipaddress>' command.

### Severity

Warning

## Message Text

RDNSS Address Lookup failed for received Router Advertisement on vlan %vlanName% from %otherRouter% with a RDNSS Address %addr%

## Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
addr	IPv6

## NetTools.RouterAdv.AdvertRDNSSOptLftmeInv

### 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] rdns <ipaddress> {<rdns\_lifetime>}' or 'configure <vlan-name> router-discovery rdns-lifetime <rdns\_lifetime>' command.

### Severity

Warning

## Message Text

Received Router Advertisement on vlan %vlanName% from %otherRouter% with a RDNSS Address %addr% and lifetime %rxLfTm% which differs from locally configured lifetime of %cfgLfTm%

## Message Parameters

Name	Type
vlanName	VLAN
otherRouter	IPv6
addr	IPv6

Name	Type
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
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.AdvertDNSSLOptLftmeInv

### 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

# 211 NetTools.SNTP Messages

NetTools.SNTP.TxReqToSrvr  
NetTools.SNTP.SrvrReqTmout  
NetTools.SNTP.RxPktFmSrvr  
NetTools.SNTP.PktRxInv  
NetTools.SNTP.PktRxVld  
NetTools.SNTP.TimeOffset  
NetTools.SNTP.AdjTimeOfDay  
NetTools.SNTP.ResetTimeOfDay  
NetTools.SNTP.OpenBcastUDPSockFail  
NetTools.SNTP.OpenUcastUDPSockFail  
NetTools.SNTP.TxReqToSrvrFail  
NetTools.SNTP.SrvrNameNotRslved  
NetTools.SNTP.SendCkptData  
NetTools.SNTP.RecvCkptData

## 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

Servers 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

Servers 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

# 212 NM Messages

NM.DebugSummary  
NM.DebugVerbose  
NM.DebugData  
NM.NodeStateFail  
NM.StrtProc

## 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 between 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.

# 213 NTP Messages

NTP.StrtSrvcFail  
NTP.SrvcFail

## 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, "/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

# 214 NTP.Peer Messages

NTP.Peer.DtectServRch  
NTP.Peer.DtectServUnrch  
NTP.Peer.SelSysPeer

## 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 stopped 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



# 215 NTP.Sys Messages

NTP.Sys.SetKernClockFreq  
NTP.Sys.InitKernClockFreq  
NTP.Sys.ActvSysPeerNotExist  
NTP.Sys.DtectClockSpike  
NTP.Sys.DtectClockStep  
NTP.Sys.NtfyClockSync

## 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 %va1% 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 %va1% 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.

# 216 OpenFlow Messages

---

OpenFlow.DebugSummary  
OpenFlow.DebugVerbose  
OpenFlow.DebugData  
OpenFlow.ACLModRuleFail  
OpenFlow.ACLRecvRuleInv  
OpenFlow.ACLRecvPortInv  
OpenFlow.ACLCfgPortInv  
OpenFlow.ParmNull  
OpenFlow.ParmInv  
OpenFlow.CfgVLAN  
OpenFlow.SetSockFail  
OpenFlow.Error  
OpenFlow.Warning  
OpenFlow.Notice

## OpenFlow.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

## OpenFlow.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

## OpenFlow.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

## OpenFlow.ACLModRuleFail

### Description

A failure has occurred while attempting to modify a rule. This normally indicates the ACL Manager or HAL failed to modify the rule.

### Remedy

Examine the logs for any ACL related messages that may indicate why the modification failed.

### Severity

Warning

### Message Text

Failed to %operation% %rule% with error=%error%.

### Message Parameters

Name	Type
operation	String
rule	String
error	sint32

## OpenFlow.ACLRecvRuleInv

### Description

A rule was received by the OpenFlow module that it did not recognize.

## Remedy

Examine the logs for any ACL related messages that may indicate why the rule was sent to the OpenFlow module. Examine the output of the command "show openflow ports" to determine if the rule is on an OpenFlow enabled port.

## Severity

Warning

## Message Text

The rule %rule%(%rule\_no%) is not an OpenFlow rule.

## Message Parameters

Name	Type
rule	String
rule_no	uint16

## OpenFlow.ACLRecvPortInv

### Description

The OpenFlow module adds ACL rules to program the hardware to send packets to the OpenFlow module. A packet was received that did not correspond to an OpenFlow enabled port.

### Remedy

Examine the logs for any ACL related messages that may indicate why the packet was sent to the OpenFlow module. Examine the output of the command "show openflow ports" to determine if the port is an OpenFlow enabled port. Examine the output of the command "show access-list dynamic" to correlate what rules are enabled for the OpenFlow ports.

### Severity

Warning

### Message Text

A packet was received by the OpenFlow module on an invalid port (%port%).



## Message Parameters

Name	Type
port	uint32

## OpenFlow.ACLCfgPortInv

### Description

An invalid port was passed to the OpenFlow module.

### Remedy

Examine the output of the command "show openflow ports" to determine if the port is an OpenFlow enabled port.

### Severity

Warning

### Message Text

Port %port% is invalid.

## Message Parameters

Name	Type
port	uint32

## OpenFlow.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 and internal condition needing technical assistance. Contact technical support with the following information: Output of 'show tech', 'show openflow', 'show configuration openflow'.

### Severity

Critical

## Message Text

Argument `%arg%` is NULL

## Message Parameters

Name	Type
arg	String

## OpenFlow.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

This is a rare and internal condition needing technical assistance. Contact technical support with the following information: Output of 'show tech', 'show openflow', 'show configuration openflow'.

### Severity

Critical

## Message Text

Argument `%str%` has an invalid value `%val%`.

## Message Parameters

Name	Type
str	String
val	uint32

## OpenFlow.CfgVLAN

---

### Description

OpenFlow has been configured on a vlan.

## Remedy

No action required - Notification message only.

## Severity

Notice

## Message Text

OpenFlow %state% on vlan %vlanStr% (%vlanId%)

## Message Parameters

Name	Type
state	String
vlanStr	String
vlanId	uint16

## OpenFlow.SetSockFail

### Description

OpenFlow failed to set an option on a socket. Failure to set correct socket options will result in incorrect behavior of the OpenFlow feature.

### Remedy

This is a rare and internal condition needing technical assistance. Contact technical support with the following information: Output of 'show tech', 'show openflow', 'show configuration openflow'.

### Severity

Error

### Message Text

Failed to set socket %option% error: %errorMsg%(%err%).

## Message Parameters

Name	Type
option	String
errorMsg	String
err	slnt32

## OpenFlow.Error

### Description

This is a rare internal condition needing technical assistance.

### Remedy

This is a rare and internal condition needing technical assistance. Contact technical support with the following information: Output of 'show tech', 'show openflow', 'show configuration openflow and show log'.

### Severity

Error

### Message Text

%format%

### Message Parameters

Name	Type
format	Printf

## OpenFlow.Warning

### Description

This is a rare internal condition needing technical assistance.

### Remedy

This is a rare and internal condition needing technical assistance. Contact technical support with the following information: Output of 'show tech', 'show openflow', 'show configuration openflow and show log'.

## Severity

Warning

## Message Text

%format%

## Message Parameters

Name	Type
format	Printf

# OpenFlow.Notice

## Description

This is a rare internal condition needing technical assistance.

## Remedy

This is a rare and internal condition needing technical assistance. Contact technical support with the following information: Output of 'show tech', 'show openflow', 'show configuration openflow and show log'.

## Severity

Notice

## Message Text

%format%

## Message Parameters

Name	Type
format	Printf

# 217 OpenFlow.OVS Messages

---

OpenFlow.OVS.DebugSummary  
OpenFlow.OVS.DebugVerbose  
OpenFlow.OVS.DebugData  
OpenFlow.OVS.Enter  
OpenFlow.OVS.Exit  
OpenFlow.OVS.Emer  
OpenFlow.OVS.Err  
OpenFlow.OVS.Warn  
OpenFlow.OVS.Info  
OpenFlow.OVS.Dbg  
OpenFlow.OVS.Dsptch  
OpenFlow.OVS.RmtCnct  
OpenFlow.OVS.OfMsg

## OpenFlow.OVS.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

## OpenFlow.OVS.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

## OpenFlow.OVS.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

## OpenFlow.OVS.Enter

---

### 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

## OpenFlow.OVS.Exit

---

### 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

## OpenFlow.OVS.Emer

---

### 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

Critical

### Message Text

%string%

### Message Parameters

Name	Type
string	String

## OpenFlow.OVS.Err

---

### 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

Error

### Message Text

%string%

### Message Parameters

Name	Type
string	String

## OpenFlow.OVS.Warn

### 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

Warning

### Message Text

%string%

### Message Parameters

Name	Type
string	String

## OpenFlow.OVS.Info

---

### 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-Summary

### Message Text

%string%

### Message Parameters

Name	Type
string	String

## OpenFlow.OVS.Dbg

---

### 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

%string%

## Message Parameters

Name	Type
string	String

## OpenFlow.OVS.Dsptch

### 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

## OpenFlow.OVS.RmtCnct

### Description

This is a generic event for monitoring remote connections to OpenFlow servers. Connection state changes such as 'connecting', 'disconnecting', 'connected', 'disconnected', 'connection timed out' cause this event to occur.

### Remedy

No action required - Informational message only.

### Severity

Notice

## Message Text

%string%

## Message Parameters

Name	Type
string	String

## OpenFlow.OVS.OfMsg

---

### Description

This is a generic event for monitoring human-readable OpenFlow client-server messages. When appropriate, please use packet capture for larger packets or packet streams instead of this message.

### Remedy

No action required - Informational message only.

### Severity

Debug-Data

## Message Text

%string%

## Message Parameters

Name	Type
string	String

# 218 ospf Messages

---

ospf.AreaCfgNotFnd  
ospf.BldExtLSAFail  
ospf.ExtLSALmtState  
ospf.AllocMemFail  
ospf.SummListAddrDup  
ospf.RtIfNull  
ospf.RtUpdtAddDel  
ospf.AllocInitMemFail  
ospf.InitSockFail  
ospf.TmpDownTimerExp  
ospf.AllocPathEntFail  
ospf.DelAreaFail  
ospf.InitIPCFail  
ospf.RtMgrRegFail  
ospf.Critical  
ospf.Error  
ospf.Warning  
ospf.Info  
ospf.DebugSummary  
ospf.DebugVerbose  
ospf.DebugData  
ospf.Enbl  
ospf.Dsbl  
ospf.DupRtId  
ospf.server\_Debug  
ospf.server\_DBEvent  
ospf.AddIfToAreaFmArea  
ospf.MoveIfToAreaFmArea

## 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/lssa 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 process "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 and 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 occurred. 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 occurred 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 occurred 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.MovelfToAreaFmArea

### 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

# 219 ospf.event Messages

```
ospf.event.ProcExtRtRedist
ospf.event.ExtRtGet
ospf.event.RxPktNonIP
ospf.event.ProcSockFail
ospf.event.IPVerInv
ospf.event.PktLenInv
ospf.event.ProtoInv
ospf.event.EnbIVLANFail
ospf.event.VLANIPAddrNotFnd
ospf.event.VLANNotFnd
ospf.event.EntRstr
ospf.event.ExitRstr
ospf.event.EntRstrHelp
ospf.event.ExitRstrHelp
ospf.event.NotEntRstr
ospf.event.NotEntRstrHelp
ospf.event.RemGraceInt
ospf.event.ExitRstrPurgeType5ASE
ospf.event.ExitRstrPurgeType7ASE
ospf.event.ExitRstrPurgeType34Summ
ospf.event.ExitRstrRouteUpdateReq
ospf.event.ExitRstrRouteUpdateComp
```

## 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 initialize 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\_VRID EFAULT setting socket option SO\_DONTROUTE setting socket option  
 IP\_MULTICAST\_LOOP setting socket option IP\_PKTINFO sendto() multicasting sending to EBADF  
 unitcasting sending 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.Protolnv

### Description

Used when ospf receives packet whose protocol is not 89. %proto%: the protocol number of the received packet.

### Remedy

If any operational 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.EnbIVLANFail

### 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 I3 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 fails 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 external routes from rtMgr.

### Remedy

This is for debugging

### Severity

Debug-Summary

### Message Text

OSPF GR Proto Routes Update From rtmgr Complete.

# 220 ospf.Isa Messages

ospf.Isa.TxPkt  
ospf.Isa.PktRx  
ospf.Isa.PktInv  
ospf.Isa.ExclExtFlood  
ospf.Isa.AddExtRt  
ospf.Isa.AddToDB  
ospf.Isa.AddExtToDB  
ospf.Isa.Type5ExtDBCntAcc  
ospf.Isa.RfrshType2IfNull  
ospf.Isa.RfrshType34SummHdrNull  
ospf.Isa.RfrshType5ExtHdrNull  
ospf.Isa.DelFmDB  
ospf.Isa.Type5ExtDBCntRmn  
ospf.Isa.Updt  
ospf.Isa.ProcUpdt  
ospf.Isa.UpdtExtVal  
ospf.Isa.AgeOut  
ospf.Isa.ProcStrt  
ospf.Isa.DropLenInv  
ospf.Isa.DropNotOpqCpbl  
ospf.Isa.DropNbrNotOpqCpbl  
ospf.Isa.Fnd  
ospf.Isa.RtrNotSame  
ospf.Isa.DropDupType9IfcDiff  
ospf.Isa.DelPendLSReq  
ospf.Isa.DropNotMinArrivTime  
ospf.Isa.ProcFunc  
ospf.Isa.DelLSRtxListEnt  
ospf.Isa.DropOld  
ospf.Isa.TxLSAckNbrNotUpdt  
ospf.Isa.CmpAge  
ospf.Isa.BldType1  
ospf.Isa.BldType2Strt  
ospf.Isa.BldType2Fnd  
ospf.Isa.DelType2NotDR  
ospf.Isa.BldType2NotDone  
ospf.Isa.BldType2Pstpn

ospf.Isa.PurgeType2MaxSeqNum  
ospf.Isa.BldType2Func  
ospf.Isa.BldType2Done  
ospf.Isa.BldType34  
ospf.Isa.BldDfltType3  
ospf.Isa.BldDfltType7  
ospf.Isa.BldType5  
ospf.Isa.CalcType7FwdAddr  
ospf.Isa.CalcType7FwdAddrDone  
ospf.Isa.BldType7  
ospf.Isa.RxLSAck  
ospf.Isa.TxDrcTLSAck  
ospf.Isa.EnqDlalyLSAck  
ospf.Isa.TxDlalyLSAck  
ospf.Isa.LSUpdtPktInv  
ospf.Isa.RtxListNbr  
ospf.Isa.AddRtxList  
ospf.Isa.CalcFwdAddr  
ospf.Isa.CalcFwdAddrDone  
ospf.Isa.RbldType7  
ospf.Isa.IncrSeqNum  
ospf.Isa.DfltType7AlrdyExist  
ospf.Isa.StrtBatchTx  
ospf.Isa.Warning  
ospf.Isa.DebugSummary  
ospf.Isa.DebugVerbose  
ospf.Isa.DelExtRt  
ospf.Isa.CksumInv  
ospf.Isa.NotAgeOut  
ospf.Isa.RxMbufDump  
ospf.Isa.TxDataDump  
ospf.Isa.BldType9Grace  
ospf.Isa.DropRtrLSAMaxLinkExcd  
ospf.Isa.DropRtrLSAIDMismatch

## ospf.Isa.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.Isa.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	ulnt

## 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	ulnt

## 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	ulnt
seq	ulnt

## 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
area	IPN
type	ulnt

## 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

Modifying 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

Modifying %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% LSAid %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

Name	Type
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% rtrld %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
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
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. %sid%: 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	ulnt
nbr	IPN
state	ulnt

## 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.DeLSRtxListEnt

### Description

When ospf deletes one LSA from the retransmit list of the neighbor 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 retransmit 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 neighbor 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

Name	Type
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 trigger 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 trigger flag, it could be "need do dr elect", etc.

### Remedy

None. This is for debugging



## Severity

Debug-Verbose

## Message Text

Completely 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	ulnt

## 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	ulnt
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

Retransmitting 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.Isa.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.Isa.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	ulnt
seq	ulnt

## 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 limits 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

# 221 ospf.neighbor Messages

---

```
ospf.neighbor.TxPkt
ospf.neighbor.PktRx
ospf.neighbor.PktInv
ospf.neighbor.ElectDR
ospf.neighbor.TxDD
ospf.neighbor.SkipExtLSA
ospf.neighbor.ProcInvLSREvent
ospf.neighbor.ChgState
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ospf.neighbor.VLANDebugVerbose
ospf.neighbor.VLANRxMbufDump
ospf.neighbor.VLANTxDataDump
ospf.neighbor.DDMTUMismatch
```

## 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
pktttype	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. %pktttype%: 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 %pktttype% pkt from %src%.

## Message Parameters

Name	Type
vlan	VLAN
pktttype	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 lSld %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 occurred 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%: neighbor 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 neighbor 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 occurred 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



# 222 ospf.spf Messages

ospf.spf.TmpPathEntAdd  
ospf.spf.AddIntASBR  
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ospf.spf.IgnTmpPathEntEq|Cost  
ospf.spf.ReplHighCostTmpPathEnt  
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ospf.spf.AddRt  
ospf.spf.NetInheritLsp  
ospf.spf.RtrFindLsp  
ospf.spf.RtrLspFound  
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```
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ospf.spf.InvPathType
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ospf.spf.DelRt
ospf.spf.DelRtErr
ospf.spf.AddRtErr
ospf.spf.IgnAddRt
ospf.spf.IgnDelRt
```

## 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 %cost2% type %type% lsai %lsai% hashbucket %hash% added.

### Message Parameters

Name	Type
pent	Ptr
hop	uint
ip	IPN
mask	IPmaskvalN
cost	uint
cost2	uint
type	uint

Name	Type
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.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	IPmaskvalIN
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.MergeTmpPathEntEqCost

### 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.IgnTmpPathEntEqCost

### 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	ulnt

## 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	ulnt

## 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	ulnt
cost	ulnt
cost2	ulnt
type	ulnt
lsai	Ptr
tentbucket	ulnt

## 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

Inherits the parent node's LSP information during SPF computation. Network node in SPF tree always inherit 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, Inherits 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 hop 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

# 223 ospfv3 Messages

ospfv3.AllocMemFail  
ospfv3.EnblLcns  
ospfv3.ChgCfgIfPrio  
ospfv3.SchedDiagLoopStart  
ospfv3.SchedDiagQStart  
ospfv3.SchedDiagQEnd  
ospfv3.SchedSelectTimeout  
ospfv3.AddIPv6AddrVRIdInv  
ospfv3.Warning  
ospfv3.AddIfToAreaFmArea  
ospfv3.MoveIfToAreaFmArea

## ospfv3.AllocMemFail

### Description

OSPFv3 could not allocate memory for the specified object.

### Remedy

This is a symptom of low memory resources or memory corruption. A less complex or scaled configuration may be necessary in order for OSPFv3 to operate correctly. Reduce the configuration to free up resources.

### Severity

Error

### Message Text

Failed to allocate %size% bytes memory for object %object%.

### Message Parameters

Name	Type
size	uint32
object	String



---

## ospfv3.EnblLcns

---

### Description

This event is logged to inform which OSPFv3 license is enabled.

### Remedy

None. This is an informational message

### Severity

Info

### Message Text

Enabled OSPFv3 %lic% license - default router priority is %prio%.

### Message Parameters

Name	Type
lic	String
prio	uint32

---

## ospfv3.ChgCfgIfPrio

---

### Description

This event is logged to inform that priority has changed because current license level is set to Advanced Edge. A 'save config' is required for 'show config' to correctly display the priority when the config hasnt been changed by the operator. OSPFv3 functioning is unaffected

### Remedy

Issue a save config

### Severity

Warning

### Message Text

Changed configured interface %ifname% priority from %oldprio% to %prio%. Please save configuration

## Message Parameters

Name	Type
ifname	String
oldprio	uint32
prio	uint32

## ospfv3.SchedDiagLoopStart

### Description

Diagnostic message to profile scheduler

### Remedy

No action required - information message only

### Severity

Debug-Summary

### Message Text

Start Loop: %qn1% %qs1%, %qn2% %qs2%, %qn3% %qs3%, %qn4% %qs4%. TElapsed: %te%

## Message Parameters

Name	Type
qn1	String
qs1	uint32
qn2	String
qs2	uint32
qn3	String
qs3	uint32
qn4	String
qs4	uint32
te	String

---

## ospfv3.SchedDiagQStart

---

### Description

Diagnostic message to profile scheduler

### Remedy

No action required - information message only

### Severity

Debug-Summary

### Message Text

Start Q: %qn1% %qs1%

### Message Parameters

Name	Type
qn1	String
qs1	uint32

---

## ospfv3.SchedDiagQEnd

---

### Description

Diagnostic message to profile scheduler

### Remedy

No action required - information message only

### Severity

Debug-Summary

### Message Text

Stop Q: %qn1% %qs1% %me%. TElapsed: %te%

## Message Parameters

Name	Type
qn1	String
qs1	uint32
me	uint32
te	String

## ospfv3.SchedSelectTimeout

### Description

Diagnostic message to profile scheduler

### Remedy

No action required - information message only

### Severity

Debug-Summary

### Message Text

Select Timeout: %to%

## Message Parameters

Name	Type
to	String

## ospfv3.AddIPv6AddrVridInv

### Description

Diagnostic message to log vrid mismatch when ipv6 addr add message is received from VLAN. This can happen sometimes for valid reason also. Like adding a vlan and configuring ipv6 address in a vrf

### Remedy

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

Add Ipv6 Addr message from Vlan has Invalid VRID=%vlvrid% OSPFv3 is started in vrid=%ospfvrid  
%

## Message Parameters

Name	Type
vlvrid	VRID
ospfvrid	VRID

## ospfv3.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

## ospfv3.AddIfToAreaFmArea

### Description

This event occurs whenever an existing OSPFv3 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 ospfv3 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

## ospfv3.MoveIfToAreaFmArea

### Description

This event occurs whenever an existing OSPFv3 interface is moved from one area to another area with CLI command: `configure ospfv3 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

# 224 OSPFv3.NbrMgr Messages

OSPFv3.NbrMgr.InitRsrcFail  
OSPFv3.NbrMgr.InitLibRsrcFail  
OSPFv3.NbrMgr.CreatIfRsrcFail  
OSPFv3.NbrMgr.CreatNbrRsrcFail  
OSPFv3.NbrMgr.CreatOK  
OSPFv3.NbrMgr.DstryOK  
OSPFv3.NbrMgr.CreatIfCBOK  
OSPFv3.NbrMgr.DstryIfCBOK  
OSPFv3.NbrMgr.CreatNbrCBOK  
OSPFv3.NbrMgr.DstryNbrCBOK  
OSPFv3.NbrMgr.McastSockNotOpen  
OSPFv3.NbrMgr.PostNMICtrlBuf  
OSPFv3.NbrMgr.PostSockBuf  
OSPFv3.NbrMgr.ProcUpdtIfSig  
OSPFv3.NbrMgr.McastSockFSMInfo  
OSPFv3.NbrMgr.IfSockFSMInfo  
OSPFv3.NbrMgr.FreeHelloOld  
OSPFv3.NbrMgr.TxNoHelloPollIntvNotRch  
OSPFv3.NbrMgr.XferTxPktToPMFail  
OSPFv3.NbrMgr.PktBufNotRtrnNbrCBFree  
OSPFv3.NbrMgr.TxHello  
OSPFv3.NbrMgr.RxHello  
OSPFv3.NbrMgr.IgnSockErr  
OSPFv3.NbrMgr.JoinStatusChg  
OSPFv3.NbrMgr.EntityStatusChg  
OSPFv3.NbrMgr.DropPktFmOldIPSockStub  
OSPFv3.NbrMgr.DropPktNoMatchIf  
OSPFv3.NbrMgr.PMCommFail  
OSPFv3.NbrMgr.IgnPktIncrctProto  
OSPFv3.NbrMgr.IgnPktIncrctVer  
OSPFv3.NbrMgr.IgnPktIncrctSrcIP  
OSPFv3.NbrMgr.IgnPktInvAreald  
OSPFv3.NbrMgr.IgnNonHelloNoActvNbr  
OSPFv3.NbrMgr.IgnPktIncrctLen  
OSPFv3.NbrMgr.CreatSockFail  
OSPFv3.NbrMgr.SockStubCommFail  
OSPFv3.NbrMgr.DtectNMSwErr



OSPFv3.NbrMgr.IgnPktInvSrcIP  
OSPFv3.NbrMgr.IgnPktCalcAuthRsrcFail  
OSPFv3.NbrMgr.IgnPktUnexpAuthType  
OSPFv3.NbrMgr.IgnPktIncrctPwd  
OSPFv3.NbrMgr.IgnPktIncrctCksum  
OSPFv3.NbrMgr.IgnPktIncrctSeq  
OSPFv3.NbrMgr.IgnPktIncrctDigest  
OSPFv3.NbrMgr.IgnHelloSmall  
OSPFv3.NbrMgr.IgnPktUnexpType  
OSPFv3.NbrMgr.IgnPktSmall  
OSPFv3.NbrMgr.SetSockOptIPMcastFail  
OSPFv3.NbrMgr.CloseSockFail  
OSPFv3.NbrMgr.DropHelloDiffHelloIntv  
OSPFv3.NbrMgr.DropHelloDiffDeadIntv  
OSPFv3.NbrMgr.DropHelloDiffNetMsk  
OSPFv3.NbrMgr.DropHelloDiffAreaType  
OSPFv3.NbrMgr.IgnPktIncrctAuthLen  
OSPFv3.NbrMgr.AuthPktFailInvKey  
OSPFv3.NbrMgr.DropPktRsvdRtrId  
OSPFv3.NbrMgr.DtectIntIncnsist  
OSPFv3.NbrMgr.AllocNewNbrSigFail  
OSPFv3.NbrMgr.ActvFail  
OSPFv3.NbrMgr.IgnPktUnexpRtrId  
OSPFv3.NbrMgr.IgnPktVIfNoNbr  
OSPFv3.NbrMgr.IgnPktUnsuprtHdrLen  
OSPFv3.NbrMgr.IgnPktUnkVIf  
OSPFv3.NbrMgr.IgnPktSuprsIf  
OSPFv3.NbrMgr.ResetIfCB  
OSPFv3.NbrMgr.DtectCryptSeqErr  
OSPFv3.NbrMgr.IgnPktUnexpP2PSrcIP  
OSPFv3.NbrMgr.IgnUnexpSigFmPM  
OSPFv3.NbrMgr.RepEntityMIBToBkupFail  
OSPFv3.NbrMgr.BFDStubCommFail  
OSPFv3.NbrMgr.RecvBFDIndctSessUp  
OSPFv3.NbrMgr.RecvBFDIndctSessDown  
OSPFv3.NbrMgr.DropPktFmOldBFDStub  
OSPFv3.NbrMgr.IgnUnexpSigFmBFD  
OSPFv3.NbrMgr.DropBFDSigUnkSess  
OSPFv3.NbrMgr.CreatBFDSessCB  
OSPFv3.NbrMgr.DstryBFDSessCB  
OSPFv3.NbrMgr.CreatBFDSessCBRsrcFail  
OSPFv3.NbrMgr.BFDSessFSMInfo

```

OSPFv3.NbrMgr.IgnPktUnexpNbrRtrId
OSPFv3.NbrMgr.IgnPktUnexpSrcIP
OSPFv3.NbrMgr.DropHelloDiffInstcId
OSPFv3.NbrMgr.DropPktIfSLinkNotMatch
OSPFv3.NbrMgr.DropPktVIfSLinkNotMatch
OSPFv3.NbrMgr.SetSockOptTClassFail
OSPFv3.NbrMgr.SuprsIfCfgErrTrap
OSPFv3.NbrMgr.SuprsVIfCfgErrTrap
OSPFv3.NbrMgr.SuprsIfAuthFailTrap
OSPFv3.NbrMgr.SuprsVIfAuthFailTrap
OSPFv3.NbrMgr.TxMsg
OSPFv3.NbrMgr.RxMsg
OSPFv3.NbrMgr.PostNMICtrlBufIfDead
OSPFv3.NbrMgr.DROrBDRMismatch

```

## 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 OSPF 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 lack 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 index = %p2% Physical interface index = %p3% Multicast group = %p4%

## Message Parameters

Name	Type
p1	String
p2	String
p3	xInt32
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
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 index = %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	xInt32
p3	uint8
p4	String
p5	uint8
p6	String
p7	uint8

Name	Type
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
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% dropped a link local or multicast packet on i/f %p3% 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	uint32
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

Name	Type
p3	VarFmtByteArray
p4	HexPktByteArray

## OSPFv3.NbrMgr.IgnPktInvAreald

### 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%. 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

## 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

Name	Type
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\_MULTICAST\_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	slnt32
p4	slnt32

## 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.DtectIntInconsist

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### 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.IgnPktVIfNoNbr

### 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 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.IgnPktUnkVif

### 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. I/f index of 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	uint32
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	slnt8
p3	slnt8
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.DropPktVIfSLinkNotMatch

### 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

Name	Type
p4	String
p5	String
p6	String



# 225 OSPFv3.ProtoMgr Messages

OSPFv3.ProtoMgr.InitRsrcFail  
OSPFv3.ProtoMgr.InitOK  
OSPFv3.ProtoMgr.Dstry  
OSPFv3.ProtoMgr.InitHAFLibFail  
OSPFv3.ProtoMgr.InitMIBLibFail  
OSPFv3.ProtoMgr.InitMIBTblFail  
OSPFv3.ProtoMgr.DtectIntCflct  
OSPFv3.ProtoMgr.JoinIntCompRsrcFail  
OSPFv3.ProtoMgr.AllocAreaCBFail  
OSPFv3.ProtoMgr.SlaveJoinMstrFailOvr  
OSPFv3.ProtoMgr.SlaveJoinMstrFail  
OSPFv3.ProtoMgr.SlaveJoinDeactvOK  
OSPFv3.ProtoMgr.MstrJoinSlaveFailOvr  
OSPFv3.ProtoMgr.MstrJoinSlaveFail  
OSPFv3.ProtoMgr.MstrJoinSlaveUnavail  
OSPFv3.ProtoMgr.MstrJoinSlaveCflct  
OSPFv3.ProtoMgr.MstrJoinDeactvOK  
OSPFv3.ProtoMgr.ExitHelpNbrBFDDown

## 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

The OSPF Protocol Manager has initialized successfully. Process ID = %p1% Entity index = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	sInt32

## OSPFv3.ProtoMgr.Dstry

### Description

The OSPF Protocol Manager has been destroyed. FTI destroyed.

### Remedy

No action required - Informational message only.

### Severity

Info

## Message Text

The OSPF Protocol Manager has been destroyed. Process ID = %p1% Entity index = %p2%

## Message Parameters

Name	Type
p1	xInt32
p2	sInt32

## 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

# 226 pim Messages

---

pim.StrtTaskOK  
pim.InitPolMgrFail  
pim.InitDSFail

## 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 manager. 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.

# 227 pim.cache Messages

pim.cache.BldMcFDB  
pim.cache.AddMcFDBDone  
pim.cache.AddMcFDBFail  
pim.cache.DelShadFDB  
pim.cache.RfrshNonUpifFDB  
pim.cache.AddNonUpifFDB  
pim.cache.AddShadFDB  
pim.cache.DelMcFDB  
pim.cache.AddMiscMcFDB  
pim.cache.TmoutAsrtCache  
pim.cache.TmoutAsrtCacheDone  
pim.cache.ProcAsrtWinEgr  
pim.cache.ProcAsrtWinPrn  
pim.cache.ProcEgrPkt  
pim.cache.ProcIngrJoin  
pim.cache.ProcEgrJoin  
pim.cache.ProcIngrPrun  
pim.cache.ProcEgrPrunFwd  
pim.cache.ProcEgrPrun  
pim.cache.ProcEgrPrunHld  
pim.cache.ProcEgrGraft  
pim.cache.ProcSparseJoin  
pim.cache.RxIngrSGPrune  
pim.cache.RxEgrSGPrune  
pim.cache.CreatEgrSGRptPruneOnRP  
pim.cache.RfrshEgrSGRptPruneOnRP  
pim.cache.RxIngrSGRptPrune  
pim.cache.RxEgrSGRptPruneOver  
pim.cache.CreatEgrSGRptPrune  
pim.cache.RfrshEgrSGRptPrune  
pim.cache.RxIngrZGPrune  
pim.cache.CreatEgrZGPruneState  
pim.cache.RefrshEgrZGPrune  
pim.cache.RxZZRpPrune  
pim.cache.InheritZgState  
pim.cache.InheritZSRpState  
pim.cache.SndRegStopMsg

pim.cache.DelEgrVlan  
pim.cache.RegMsgVerFail  
pim.cache.RxNullRegMsg  
pim.cache.ReadRegMsg  
pim.cache.RxRegMsgUnk  
pim.cache.RxRegMsgNoRP  
pim.cache.RxRegMsgInv  
pim.cache.RxBrdRegMsg  
pim.cache.ProcRegMsg  
pim.cache.RefrshNullRegSgState  
pim.cache.FndRegMsgCache  
pim.cache.RxRegStopMsg  
pim.cache.TxNullRegMsg  
pim.cache.RegMsgCksumFail  
pim.cache.CreatRegMsgState  
pim.cache.ChgRpIngrParmOnSg  
pim.cache.GetRpRoute  
pim.cache.AddMcCache  
pim.cache.LkupSrcRouteFail  
pim.cache.CmpIngrVlanFail  
pim.cache.CreatNegCache  
pim.cache.CreatPosCache  
pim.cache.ProcEgrTimeExp  
pim.cache.ChgPruneState  
pim.cache.SetPruneState  
pim.cache.ClrPruneState  
pim.cache.ExpPruneTimeUnk  
pim.cache.TmoutJoinTime  
pim.cache.SetEgrTime  
pim.cache.DelEgrVlanFail  
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```
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pim.cache.RxIngrZZRpPrune
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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 be because the message queue to mcmgr is full. Another attempt would be made when the next cache miss 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 legitimately 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 downstream 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 downstream 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 downstream 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 downstream 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 joining 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 scheduled 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 received on the vlan, which would be propagated to all the (s,g)/(s,g)rpt cache entries 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 (\*,\*) 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 configuration.

### 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 register 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 suppress 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 message. 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 source streaming to group, towards which instant (s,g) join could 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 legitimate 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.CmplIngrVlanFail

---

### 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 at 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
rp	IPAddrN
st	String
num1	slnt

## 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.ExtCacheTime

---

### 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 entry 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, whose 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 %v1%, for cache, %ips%/%rp%.

## Message Parameters

Name	Type
tp	String
vl	VLAN
ips	IPAddrN
rp	IPAddrN

## pim.cache.AddEgrVlan

### Description

Adding 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
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

Recieved 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.DellGMPV3Vlan

---

### 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
ifl	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.GetVlanIndxOK  
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pim.debug.TermMsgTask  
pim.debug.RecvRouteMsgOK  
pim.debug.RecvMsgUnk  
pim.debug.RecvCacheMissMsg  
pim.debug.RecvWrongIfMsg  
pim.debug.RecvIGMPAddMsg  
pim.debug.RecvCacheRateMsg  
pim.debug.RecvMcmMsgUnk  
pim.debug.LkupRouteSucc  
pim.debug.SndMcmMsg  
pim.debug.AllocCacheMemFail  
pim.debug.GetVlanIndxFail  
pim.debug.CreatIpmcCache  
pim.debug.CreatIpmcCacheFail  
pim.debug.TrySharedTreeFwd  
pim.debug.ChkRegMsg  
pim.debug.LkupHwCacheDtect  
pim.debug.RxPktOnSG  
pim.debug.ChkSgRptPrune  
pim.debug.SetSockVlan  
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pim.debug.InvalidRouteRefCount  
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pim.debug.Log  
pim.debug.PostUrtCallback  
pim.debug.PktRxdOnDisVlan  
pim.debug.RPchgFHRdelSG  
pim.debug.BypassIGMP  
pim.debug.AddIGMPEntry  
pim.debug.RecvIGMPDelMsgAll  
pim.debug.RecvIGMPDelMsg  
pim.debug.SndMcmQFull  
pim.debug.RecvIGMPMemAbnormal

pim.debug.queryMbrVlan  
 pim.debug.IgmpRtifNull  
 pim.debug.IgmpCircNull  
 pim.debug.IgmpCircDown  
 pim.debug.IgmpV3Ssm  
 pim.debug.IgmpV3NonIncl  
 pim.debug.IgmpExists  
 pim.debug.IgmpDelGroupAll  
 pim.debug.DelRpGrpEnt  
 pim.debug.CreateRpGrpEnt  
 pim.debug.CnvSgrptDellngrFromEgr  
 pim.debug.CnvSgrptDellngrFromPrn  
 pim.debug.RtReachable  
 pim.debug.NoPimIntf  
 pim.debug.SsmAck  
 pim.debug.CheckSsmFail  
 pim.debug.BypassAsrtChkOnNonEgrIf  
 pim.debug.SkipAsrtMsgOnNonEgrIf  
 pim.debug.RxJumboData

## 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 wrong is found, contact tech support.

### Severity

Error

### Message Text

Could not create a shadow 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 epn 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 never 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 message with status, %num0%.

### Message Parameters

Name	Type
num0	slnt

## 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 initialization 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 memory 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	slnt

## 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.DeIPimVlanFail

### 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 unregster 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 contact 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 destination.

### 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 occurred 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 threshold 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 poisoned 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%/%bitmask%, with ingress vlan %nm%, gateway %gw%

### Message Parameters

Name	Type
ip0	IPAddrN
nm	VLAN
bitmask	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 destination, %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, periodically.

### 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 stream 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 %d1% for stream, %ips%/%ipd%, on shared tree.

## Message Parameters

Name	Type
d1	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 user 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 registering 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 register 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 inheriting 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 because 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 indicates 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.DeISgCacheNull

### Description

The delete route message resulted in the cache delete. The reason could be because 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 intf 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 an 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 we 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 Rtlf (%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.

# 229 pim.hello Messages

pim.hello.CreatNbr  
pim.hello.ChgNbrIndx  
pim.hello.ProcHelloMsgFail  
pim.hello.RecvHelloPkt  
pim.hello.RecvPimPkt  
pim.hello.ProcPktFail  
pim.hello.TxHelloPkt  
pim.hello.RxHelloCksumFail  
pim.hello.RxHelloVerFail  
pim.hello.RxHelloOnPassive  
pim.hello.RemDupScndAddr

## pim.hello.CreatNbr

### Description

Adding new pim neighbor failed. %vlan0% : The pim enabled vlan on which neighbor is being created.  
%ip0% : IP address of neighbor %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

Normally 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 behavior.

### 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 drooped 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
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% checksum 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 configuration 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 IP address 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

# 230 pim.mcdbg Messages

pim.mcdbg.AddCacheEntTry  
pim.mcdbg.AddCacheGrpTry  
pim.mcdbg.AddCacheMaskTry  
pim.mcdbg.AddCacheGrp  
pim.mcdbg.DelCacheEnt

## 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

# 231 pim.mrinfo Messages

pim.mrinfo.RecvReq  
pim.mrinfo.SendRspns

## 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

# 232 pim.msdp Messages

---

pim.msdp.Error  
pim.msdp.Warning  
pim.msdp.Notice  
pim.msdp.Info  
pim.msdp.DebugSummary  
pim.msdp.DebugVerbose  
pim.msdp.DebugData  
pim.msdp.RPchgRegSA  
pim.msdp.RPchgUnregSA  
pim.msdp.RPgoneUnregSA  
pim.msdp.Msg  
pim.msdp.debugErrMsg  
pim.msdp.EncapDataCreateCache  
pim.msdp.AllocMSDPMsgFail

## 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

# 233 pim.msg Messages

pim.msg.TxAsrtMsg  
pim.msg.ProcAsrtwinState  
pim.msg.ProcAsrtloseState  
pim.msg.ProcAsrtGrpDnst  
pim.msg.CmpAsrtData  
pim.msg.ProcAsrtGrpUpst  
pim.msg.ProcSparseJpPkt  
pim.msg.SchedUpstJoin  
pim.msg.ProcAsrtMsg  
pim.msg.BldJpPkt  
pim.msg.AddSrcRptPrune  
pim.msg.SendGraftUp  
pim.msg.AddSrcPrune  
pim.msg.AddSrcJoin  
pim.msg.AddSrcRptPruneDiffIng  
pim.msg.AddRptPrune  
pim.msg.AddZgJoin  
pim.msg.AddZgPrune  
pim.msg.AddZgJoinVldEgress  
pim.msg.CreatNbrJp  
pim.msg.WritNbrJpMsg  
pim.msg.EndNbrJpMsg  
pim.msg.RxDenseJpMsg  
pim.msg.ProcDenseJoinMsg  
pim.msg.ProcDensePruneMsg  
pim.msg.RxGraftPkt  
pim.msg.ProcGraftPkt  
pim.msg.RxGraftAckPkt  
pim.msg.ProcGraftAckPkt  
pim.msg.RxSparseJpPkt  
pim.msg.ProcJpPkt  
pim.msg.ProcRegStopMsg  
pim.msg.TxMsg  
pim.msg.RxMsgCksumFail  
pim.msg.RxMsgVerFail  
pim.msg.TxJoinUp  
pim.msg.ProcJoinPruneMsg

pim.msg.TxPartJoinPrunePkt  
 pim.msg.TxPktFail  
 pim.msg.AddNameItemFail  
 pim.msg.RxPktFail  
 pim.msg.RxPimPkt  
 pim.msg.RxMsgDrop  
 pim.msg.DropTxGenRegMsg  
 pim.msg.RfrshSSMTimer  
 pim.msg.TxPktError  
 pim.msg.FHRSrcRptPruneDiffUpif  
 pim.msg.SkipSendingGraftUp  
 pim.msg.RxRegDrop  
 pim.msg.SkipTxJoinPrune

## 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	slnt

## 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	slnt
num1	slnt
name1	String
num2	slnt
num3	slnt

## 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

Name	Type
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

Scheduling 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
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
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	slnt
num1	slnt

## 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	slnt
num1	slnt

## 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	slnt
num1	slnt

## 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	slnt
num1	slnt

## 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	slnt
num1	slnt
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	slnt

## 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 unsupported 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
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
In	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
In	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 %v10% from %ip0% rejected for access violation.

## Message Parameters

Name	Type
v10	VLAN
ip0	IPAddrN

## pim.msg.DropTxGenRegMsg

### Description

This source and group could have been denied in the register policy file if generated 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
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

# 234 pim.mtrace Messages

pim.mtrace.RecvReq  
pim.mtrace.SendRspns

## 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

# 235 pim.nbr Messages

pim.nbr.AddNbrNode  
pim.nbr.DelNbrNode

## 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



# 236 pim.rpm Messages

pim.rpm.ModBsrState  
pim.rpm.ChgCbsrParm  
pim.rpm.ChgCbsrParmDone  
pim.rpm.ProcBSRMsg  
pim.rpm.ChgBSRParm  
pim.rpm.ProcCRPMsgFail  
pim.rpm.UpdtCRPData  
pim.rpm.ClrCRPData  
pim.rpm.BldBSRMsg  
pim.rpm.BldBSRMsgNull  
pim.rpm.SkipRpBSRMsg  
pim.rpm.AddRpBSRMsg  
pim.rpm.BldBsrMsgDone  
pim.rpm.ProcGrpBsrMsg  
pim.rpm.ChgCRPPrio  
pim.rpm.ReadGrpBsrMsg  
pim.rpm.ReadCrpBsrMsg  
pim.rpm.DelGrpCrpData  
pim.rpm.RxBsrPkt  
pim.rpm.LkupBSRRtNull  
pim.rpm.GetBSRTagData  
pim.rpm.TmoutCrpTime  
pim.rpm.TxOldBSRPkt  
pim.rpm.TxNewBSRPkt  
pim.rpm.TxOldBSRPktToSw  
pim.rpm.TxNewBSRPktToSw  
pim.rpm.GetRpEnt  
pim.rpm.DelRpEnt  
pim.rpm.AgeRPData  
pim.rpm.GetPolParmFail  
pim.rpm.RegPolMgrFail  
pim.rpm.RecvUnkPolMsg  
pim.rpm.AddGrNoRpBSRMsg  
pim.rpm.CreateRpEnt  
pim.rpm.ReadTmpCrpBsrMsg  
pim.rpm.RemGrpRpCntZero  
pim.rpm.RemGrpHoldTimerExpiry

pim.rpm.BsrMsgSent  
 pim.rpm.tmpGrpToRpMapToWork  
 pim.rpm.GetBestRpSkipRpDel  
 pim.rpm.GetBestRpSkipLinkDel  
 pim.rpm.GetRpSetSkipGroup  
 pim.rpm.ErrRpCntNeg  
 pim.rpm.BldBSRMsgRPCntExceed  
 pim.rpm.LkupBSRRouteFail  
 pim.rpm.DropCrpAdvAtBorder

## 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 displayed 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 CCSR 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 advertisement 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 BSR 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 advertisement 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 generation 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 generation 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.DeIRpEnt

---

### 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 registration failed with code %nm%.

### Message Parameters

Name	Type
nm	slnt

## 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	slnt

---

## 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% with 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	slnt
maxlimit	slnt

## 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 Advertisements 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 advertisement 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
met	uInt
pref	uInt
mask	uInt

Name	Type
orient	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.RxMsgDwnstrmlf

### 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 message 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.SkipDsblf

## 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.SkipPssvelf

---

### 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
orient	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 messages 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 message received with Zero TTL is dropped

### Remedy

Informational message only, for debug purpose.

### Severity

Debug-Data

## Message Text

State Refresh with invalid TTL %ttl1% 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.CkptDelCache
pim.vsm.CkptEgrInfo
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pim.vsm.CkptIngVLANInfo
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pim.vsm.ClrCacheEgr
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pim.vsm.EgrMLAGStateChg
pim.vsm.StrtBulkCkpt
pim.vsm.HndIDRChg
pim.vsm.CacheNotFnd
pim.vsm.AddRfrshInfoToCkptBuf
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pim.vsm.DelISCPortFmVLAN
pim.vsm.VLANISCPortCnt
pim.vsm.EgrISCStateChg
```

## 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

This event 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' corresponding 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' corresponding 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.DeIMLAG

---

### 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 checkpoint 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 being 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	ulnt16
retries	ulnt

## 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 specified 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	ulnt16
retries	ulnt

## 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 and 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.HndIDRChg

---

### 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 become 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

# 239 pm Messages

pm.regCliName  
pm.regCliRetVal  
pm.policyCliRetVal  
pm.incPolicyUsage  
pm.decrPolicyUsage  
pm.getPolRetVal  
pm.clientNotFound  
pm.newCliPeer  
pm.peerDisconnect  
pm.checkPolPass  
pm.checkPolFail  
pm.refPNotOnFile  
pm.refPError  
pm.refPNotOnServ

## 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 return 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

# 240 pm.config Messages

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pm.config.openingFile  
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pm.config.argValRegRange  
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pm.config.synoEndVal  
pm.config.synoStartValR  
pm.config.synoStartValNR  
pm.config.synoFail  
pm.config.beforeSpace  
pm.config.afterSyno  
pm.config.afterSpace  
pm.config.beforeSyno  
pm.config.afterExpGrpKWs  
pm.config.beforeExpGrpKWs  
pm.config.argValOutOfRange  
pm.config.argOverUnderFlw  
pm.config.duplicateEntryN  
pm.config.multiplePerm  
pm.config.catchAllEntry  
pm.config.permDenied  
pm.config.repeatedCom  
pm.config.lpMaskHole  
pm.config.refreshed  
pm.config.readTimeOut  
pm.config.refreshClientP  
pm.config.refreshClientF  
pm.config.attrInvalidApp  
pm.config.hardRefCli  
pm.config.hardRefForced  
pm.config.InvalidAclAttribute

## 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

Name	Type
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

Missing ";" 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.getAllArgs

### 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 regular 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 quoted need both opening and closing quotes.

### Remedy

No remedy is available.

## Severity

Error

## Message Text

Missing close quote, 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 quote, 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 numeric 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 converging 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 synoymys 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 synoymys 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.argValOutOfRange

### 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 permissions set in entry %entry%. Permission %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 beyond 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	slnt32

## 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 cannot 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

# 241 POE Messages

---

POE.Critical  
POE.Error  
POE.Warning  
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POE.port\_fault  
POE.port\_state  
POE.port\_delivering  
POE.cardbringup

## 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 unexpected 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 %s1otnum%

## 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

# 242 Policy Messages

---

Policy.DebugSummary  
Policy.DebugVerbose  
Policy.DebugData  
Policy.RxPkt  
Policy.TxPkt  
Policy.SessAuth  
Policy.ProcSess  
Policy.TermSess  
Policy.SessLmtExcd  
Policy.AllocMemFail  
Policy.InitParmlnv  
Policy.RuleRangeExcd  
Policy.AddRuleListFail  
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Policy.DelAntiSpoofListFail  
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Policy.AllocPktFail  
Policy.RegAppIFail  
Policy.TxPeerFail  
Policy.RxVerWrong  
Policy.SendACLReqFail  
Policy.CfgHwEntFail  
Policy.CfgHwRsrcFail

## 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

Info

### 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 an 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.InitCIntFail

### 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 initialization 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.RegAppFail

### 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	uint

## 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	uint

## 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

# 243 PTPv2 Messages

PTPv2.Critical  
PTPv2.Error  
PTPv2.Warning  
PTPv2.Info  
PTPv2.DebugSummary  
PTPv2.AllocMemFail

## 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

# 244 PWMIIB Messages

---

PWMIB.Enter  
PWMIB.Exit  
PWMIB.CreatPWEnt  
PWMIB.DeIPWEnt  
PWMIB.SyncPWEnt  
PWMIB.ModPWEnt  
PWMIB.UpdtPWOperStat  
PWMIB.ParmInv  
PWMIB.SendPWStatusTrap  
PWMIB.PWIndexExist  
PWMIB.ParmNull  
PWMIB.StrtFail  
PWMIB.ClnupProcPWEnt  
PWMIB.InitOK  
PWMIB.RecvMsgType  
PWMIB.SendMsgType  
PWMIB.RecvMsgFail  
PWMIB.SendMsgFail  
PWMIB.InitFail  
PWMIB.AllocMemFail

## 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.DeIPWEnt

### 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 arguments 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



# 245 rip Messages

---

rip.init  
rip.Enbl  
rip.Dsbl

## 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

# 246 rip.cfg Messages

---

```
rip.cfg.requested
rip.cfg.loaded
rip.cfg.loadStart
rip.cfg.delIfCfg
rip.cfg.addAddr2Vlan
rip.cfg.delAddr2Vlan
rip.cfg.ipForwEnable
rip.cfg.ipForwDisable
rip.cfg.vlanUp
rip.cfg.vlanDown
```

## rip.cfg.requested

---

### Description

RIP started, requesting persistent configuration from non volatile memory.

### Remedy

No remedy is available.

### Severity

Notice

### Message Text

RIP requesting persistent cfg

## rip.cfg.loaded

---

### Description

RIP loaded persistent configuration from non volatile 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.dellfCfg

---

### 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



# 247 rip.event Messages

---

```
rip.event.foundRunTimelf
rip.event.registerPMErr
rip.event.wrongLibState
rip.event.reqFromRmUknown
rip.event.polBindErrSysImport
rip.event.plcyCbNoNameErr
rip.event.pmRegErr
rip.event.pmReregErr
rip.event.pmMsgErr
rip.event.pmMsgUsrErr
rip.event.polBindErr
rip.event.nonRipRtLeaked
rip.event.polUnBindErr
rip.event.polUnBindHandleErr
rip.event.cliTimeOut
rip.event.rxAsyncRespLate
rip.event.pmRereg
rip.event.getAttrErr
rip.event.pmEvalErr
rip.event.policyFilter
rip.event.pmHandleErr
rip.event.ifShutDown
rip.event.redistDeny
rip.event.ifUp
rip.event.addVlanDeny
rip.event.redistShutDown
rip.event.redistUp
rip.event.shutDown
```

## rip.event.foundRunTimelf

---

### Description

while creating a run time rip interface, an already existing 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 existing 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 ignored.

### 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.reqFromRmUnknown

---

### 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 current 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 interface 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 interface 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.

# 248 rip.inUpdt Messages

---

```
rip.inUpdt.addRtToRm
rip.inUpdt.delRtToRm
rip.inUpdt.rtAddFail
rip.inUpdt.rtDelFail
rip.inUpdt.unknownReqCode
rip.inUpdt.chgRt
rip.inUpdt.updtRtFromRmDrop
rip.inUpdt.addRtFromRm
rip.inUpdt.delRtFromRm
rip.inUpdt.delRtFromRmNotFound
rip.inUpdt.rtNotFound
rip.inUpdt.ripRTwalk
rip.inUpdt.rtFound
rip.inUpdt.hash
rip.inUpdt.addRt
rip.inUpdt.delRt
rip.inUpdt.updtRtFromRm
```

## 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

# 249 rip.msgs Messages

---

rip.msgs.pktDump  
rip.msgs.txRsp  
rip.msgs.txReq  
rip.msgs.rxDropPktNolf  
rip.msgs.rxDropPktWrongSrc  
rip.msgs.rxUnsupportedFamily  
rip.msgs.rxV1Del  
rip.msgs.rxV1DelNonZero  
rip.msgs.rxV1DelAuth  
rip.msgs.rxV0Del  
rip.msgs.txErrRsp  
rip.msgs.txErrReq  
rip.msgs.txErrMsg  
rip.msgs.rxV2Del  
rip.msgs.rxV2DelAuthFail  
rip.msgs.rxReq  
rip.msgs.rxReqErr  
rip.msgs.rxReqErrVersion  
rip.msgs.rxReqMBZNotZero  
rip.msgs.rxRes  
rip.msgs.rxResInvPort  
rip.msgs.rxBadRspSize  
rip.msgs.rxRspMBZNotZero  
rip.msgs.rxInvDst  
rip.msgs.rxNonLocNextHop  
rip.msgs.rxMetricErr  
rip.msgs.rxTraceOn  
rip.msgs.rxTraceOff  
rip.msgs.rxDropPktSecIf

---

## 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 authentication 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 haven't processed that notification 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 receiving 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

# 250 rip.outUpdt Messages

---

rip.outUpdt.delayTrigUpdt  
rip.outUpdt.supresTrigUpdt  
rip.outUpdt.sendTrigUpdt

## 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.supresTrigUpdt

---

### 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



# 251 rip.sys Messages

---

```
rip.sys.sockGetErr
rip.sys.sockOpPktErr
rip.sys.sockOpBcstErr
rip.sys.sockOpTosErr
rip.sys.sockOpRcvbufErr
rip.sys.sockBindErr
rip.sys.sockMcLoopErr
rip.sys.sockOpVrldErr
rip.sys.sockOpFIONBIOErr
rip.sys.sendErr
rip.sys.recvErr
rip.sys.exTimerInitErr
rip.sys.joinMCGroupErr
rip.sys.leaveMCGroupErr
rip.sys.recvErrSenderLen
rip.sys.sockCreateErr
rip.sys.sockMclfErr
rip.sys.threadUp
rip.sys.selectErr
rip.sys.lockInitErr
rip.sys.rtMgrRegErr
rip.sys.rtMgrRegNotifErr
rip.sys.threadCreateErr
rip.sys.sigactionErr
rip.sys.noMemory
rip.sys.freeMemErr
rip.sys.partialSend
rip.sys.sockOpReuseAddrErr
rip.sys.LockStateChg
rip.sys.LockBusy
rip.sys.LockEvent
```

---

## 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\_VRID error: %err% vrid: %vrId%

## Message Parameters

Name	Type
err	uint
vrlid	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 %1en%

## 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.sockMclfErr

### 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 reboot

### 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 corruption 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 address %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

# 252 ripng Messages

---

ripng.StrtTaskOK

## ripng.StrtTaskOK

---

### Description

Protocol Independent Multicast Messages.

### Remedy

No remedy. Informational message.

### Severity

Info

### Message Text

RIPng Started successfully.

# 253 ripng.debug Messages

```
ripng.debug.CreatSockFail
ripng.debug.SetSockFail
ripng.debug.BindSockFail
ripng.debug.SetIOFail
ripng.debug.RegRtMgrFail
ripng.debug.MemAllocFail
ripng.debug.ProcRtNotif
ripng.debug.RtNotifNoRout
ripng.debug.RtNotifUpdt
ripng.debug.RtNotifUpdtFail
ripng.debug.RtNotifPathLkupFail
ripng.debug.RtNotifCmpMetric
ripng.debug.BestRtFlagFail
ripng.debug.RpFindDump
```

## 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	slnt

---

## 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	slnt

---

## 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

# 254 ripng.external Messages

ripng.external.CreatIpVlan  
ripng.external.CreatIpVlanFail  
ripng.external.DellPv6Addr  
ripng.external.ChgSecIPV6AddrStat  
ripng.external.ChgVlanStat  
ripng.external.ChgIpFwdState  
ripng.external.DellIpVlan  
ripng.external.CreatVr  
ripng.external.CreatVrFail  
ripng.external.ChgIpFwdStateVlan  
ripng.external.ChgVlanName  
ripng.external.ChgVlanNameFail

## 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	slnt
num2	slnt

Name	Type
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.DellpVlan

---

### 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	slnt
num2	slnt

---

## 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	slnt

## 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	slnt

## 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

# 255 ripng.message Messages

ripng.message.ProcInMsgFail  
ripng.message.IgnInMsgFail  
ripng.message.LkupAddrFail  
ripng.message.CmpRipPortFail  
ripng.message.CmpRipSrcFail  
ripng.message.CmpRipHopLimitFail  
ripng.message.RxSrcRoutInv  
ripng.message.RxSrcRoutTagInv  
ripng.message.RxSrcRoutLenInv  
ripng.message.RxRoutNextHopInv  
ripng.message.RxRoutCostInv  
ripng.message.RxMsgIgn  
ripng.message.RxMsgDrp  
ripng.message.RxMsgAddrInv  
ripng.message.RxMsgSizInv  
ripng.message.RxMsgVerInv  
ripng.message.RxMsgFldInv  
ripng.message.RxMsgTypInv  
ripng.message.TxMsgFail  
ripng.message.RxSrcRout  
ripng.message.RxRoutPolDrop  
ripng.message.RxPathAddFail  
ripng.message.RxPathUpdtFail  
ripng.message.RxRoutAddFail  
ripng.message.SndRtMgrMsg  
ripng.message.SndRtMgrMsgFail  
ripng.message.SndRtMgrAbrt  
ripng.message.RtLkup  
ripng.message.RtPathLkup  
ripng.message.RxSrcRout2  
ripng.message.TxRout  
ripng.message.TxFailRout

---

## 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, %1n%.

## Message Parameters

Name	Type
In	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 %v11%. Error %num% , error string, %str0% .



## Message Parameters

Name	Type
vll	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	slnt
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	slnt

## 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 updated into RIPng db.

## Message Parameters

Name	Type
ip1	IPv6
ip2	IPv6
num	slnt

## 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	slnt

---

## 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	slnt
ip3	IPv6
vlanName	VLAN
num	slnt
pos	slnt

## 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

# 256 ripng.route Messages

---

```
ripng.route.AddRoutFail
ripng.route.DelRoutFail
ripng.route.ClrRoutDbFail
ripng.route.DelTUFail
ripng.route.RoutAddFail
ripng.route.RoutPathUpdt
ripng.route.RoutPathAdd
ripng.route.AddRoutStrt
ripng.route.RecvRoutMgrMsg
ripng.route.RecvRoutMgrNotif
ripng.route.ProcRtAddMsg
ripng.route.RecvRtAddFail
```

## ripng.route.AddRoutFail

---

### Description

Error occurred 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 occurred 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 occurred 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 occurred 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 occurred 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	slnt

## ripng.route.RoutPathUpdt

---

### Description

Error occurred 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 occurred 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	slnt

---

## 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



# 257 RMON Messages

---

RMON.GetEPICSemFail  
RMON.GetEPICAuthFail  
RMON.TxEPICReqFail  
RMON.AsynchHALReqFail

## 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.TxEPICReqFail

---

### Description

The RMON fails to send the EPIC request.

### Remedy

NA

### Severity

Error

### Message Text

RMON fails to send EPIC request.

## 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

# 258 RMON.Alarm Messages

RMON.Alarm.AddEnt  
RMON.Alarm.DelEnt  
RMON.Alarm.EntStatusChg  
RMON.Alarm.RiseEvent  
RMON.Alarm.FallEvent  
RMON.Alarm.SendTrap  
RMON.Alarm.TxEPICReqFail

## 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 rising 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.Alarm.TxEPICReqFail

### Description

The RMON process has failed to send the EPIC request to the SNMP Master. The SNMP Master will do the processing based on the EPIC request. (For eg:- Generating a RMON trap).

### Remedy

No remedy is available.

### Severity

Info

### Message Text

Failed to send EPIC request to SNMP master for alarm %index%.

### Message Parameters

Name	Type
index	uint

# 259 RMON.Events Messages

RMON.Events.AddEnt  
RMON.Events.DelEnt  
RMON.Events.StatusChg  
RMON.Events.MakeLog

## 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

# 260 RMON.HAL Messages

RMON.HAL.SendMsg  
RMON.HAL.RecvMsg

## 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

# 261 RMON.History Messages

RMON.History.DelEnt  
RMON.History.UnderCreatTimerExp  
RMON.History.AddEtherEnt  
RMON.History.AddEnt  
RMON.History.AddDfltEnt  
RMON.History.InitDone  
RMON.History.EntStatusChg

## 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
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 history 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

# 262 RMON.Statistics Messages

RMON.Statistics.AddEnt  
RMON.Statistics.DelEnt  
RMON.Statistics.EntStatusChg  
RMON.Statistics.InitDone

## 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.

# 263 RtMgr Messages

RtMgr.Error  
RtMgr.Warning  
RtMgr.Notice  
RtMgr.Info  
RtMgr.DebugSummary  
RtMgr.DebugVerbose  
RtMgr.DebugData  
RtMgr.init  
RtMgr.appRegister  
RtMgr.appDeRegister  
RtMgr.closeNotifCon  
RtMgr.multiReg  
RtMgr.dsInitFailure  
RtMgr.dsRegisterErr  
RtMgr.cliMasterErr  
RtMgr.ORErr  
RtMgr.icmplInitFailure  
RtMgr.closeDataCon  
RtMgr.rxDataPkt  
RtMgr.rxNotifPkt  
RtMgr.notifStart  
RtMgr.shutdown  
RtMgr.dead  
RtMgr.nullGateway  
RtMgr.purgeRtStart  
RtMgr.purgeRtEnd  
RtMgr.ospfEndRt  
RtMgr.addRtKernErr  
RtMgr.delRtKernErr  
RtMgr.kernRtErr  
RtMgr.RtReplaceNoLsp  
RtMgr.RtReq  
RtMgr.RtReplaceNum  
RtMgr.rtCompPrefix  
RtMgr.rtCompChunkSum  
RtMgr.rtCompChunkDet  
RtMgr.RtTagUpdateNotif

RtMgr.RtInfoDump  
 RtMgr.rtInvDelArrErr  
 RtMgr.CmprsRt  
 RtMgr.DeIRtFail  
 RtMgr.XlateRtLSPNotFnd  
 RtMgr.WalkInfoAdd  
 RtMgr.WalkState  
 RtMgr.WalkInfoIngn  
 RtMgr.DeIRtNodeLkupFail  
 RtMgr.DeIRtNodeFail

## 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 unexpected 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

---

## 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.icmplInitFailure

---

### 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
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	slnt
del	slnt

## 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

Name	Type
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
origin	sint
state	sint

## RtMgr.rtlvDelArrErr

---

### 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.DeIRtFail

### 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 Protocol (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
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 particular 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 route 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 particular 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 route 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

# 264 RtMgr.BFD Messages

RtMgr.BFD.StaticRtStateUp  
RtMgr.BFD.StaticRtStateDown

## 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

# 265 RtMgr.Client Messages

---

RtMgr.Client.RegClntOK  
RtMgr.Client.RegClntAllocMemFail  
RtMgr.Client.LkupSvcNameFail  
RtMgr.Client.ClntNotFnd  
RtMgr.Client.RegExpMasks  
RtMgr.Client.RegPeerByAddr  
RtMgr.Client.IPMLSendFail  
RtMgr.Client.RegNilPeerId  
RtMgr.Client.RegInvFam  
RtMgr.Client.RegNotifyFail  
RtMgr.Client.ipmlAllocFail  
RtMgr.Client.ReplyTimeOut  
RtMgr.Client.NotifReg  
RtMgr.Client.ClientUnreg  
RtMgr.Client.RegExport  
RtMgr.Client.InvalidTrans  
RtMgr.Client.ConnCtl  
RtMgr.Client.ConnCtlInfo  
RtMgr.Client.MplsUpdateFecErr  
RtMgr.Client.ClientCleanup  
RtMgr.Client.DebugInfo  
RtMgr.Client.RtRepNumPathErr  
RtMgr.Client.RtRepMismatchErr  
RtMgr.Client.GetMsgErr  
RtMgr.Client.TlvGetObjErr

## 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.RegCIntAllocMemFail

### 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.CIntNotFnd

---

### 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

# 266 RtMgr.HAL Messages

RtMgr.HAL.ProcHALMsg  
RtMgr.HAL.ProcSync  
RtMgr.HAL.AddIPFIB  
RtMgr.HAL.ReplIPFIB  
RtMgr.HAL.DeIPFIB  
RtMgr.HAL.AgeIPFIB  
RtMgr.HAL.FlushIPFIB  
RtMgr.HAL.SendSyncMsg  
RtMgr.HAL.ProcSyncCard  
RtMgr.HAL.AddNHLFE  
RtMgr.HAL.DeNHLFE

## 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.DeIPFIB

---

### 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

Name	Type
label1	xInt32
nh	String
ifi	uInt32

## RtMgr.HAL.DeINHLFE

### 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

# 267 RtMgr.If Messages

RtMgr.If.ProcLSPUp  
RtMgr.If.JoinAllRtrGrp  
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RtMgr.If.SetICMPUseRedir  
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RtMgr.If.SetICMPTimeExcd  
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RtMgr.If.HndIRtIfState  
RtMgr.If.SetIPFwd  
RtMgr.If.SetVRLSPFwd  
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RtMgr.If.RenmIf  
RtMgr.If.DelIf  
RtMgr.If.AddIPv4Addr  
RtMgr.If.ProcLSPDn  
RtMgr.If.AddIPv6Addr  
RtMgr.If.DelIPv4Addr  
RtMgr.If.DelIPv6Addr  
RtMgr.If.FndIPv4Addr  
RtMgr.If.FndIPv6Addr  
RtMgr.If.FndIfByName  
RtMgr.If.FndIfByIdx  
RtMgr.If.FndIfByInst  
RtMgr.If.FndTunlGw  
RtMgr.If.ChgTunlGwState  
RtMgr.If.PurgTunlRt  
RtMgr.If.ProcLSPAdd  
RtMgr.If.CreatLSPInfo  
RtMgr.If.DelLSPInfo  
RtMgr.If.ProcLSPFEC  
RtMgr.If.DelLSPFEC  
RtMgr.If.AddLSPFEC

RtMgr.If.UpdtLSPFEC  
 RtMgr.If.UpdtNmdLSP  
 RtMgr.If.SetLSPFwd

## 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	slnt32
status	slnt32

## RtMgr.If.SetICMPPortUnrch

### Description

Set ICMP Port Unreachable behavior.

### Remedy

None

### Severity

Debug-Data

### Message Text

Set %va1% on ICMP Port Unreachable kernel %proc% on vlan %vlan% (%status%)

## Message Parameters

Name	Type
vlan	String
proc	String
val	slnt32
status	slnt32

## 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



Name	Type
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.HndIRtifState

---

### 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% needlock=%lok%)

### Message Parameters

Name	Type
rtif	String
old	sInt32
new	sInt32
bit	sInt32
set	sInt32
lok	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.Renmlf

### 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% lock=%lock% willFreeLsp=%willFreeLsp%

## Message Parameters

Name	Type
lsp	String
msg	String
lock	sInt32
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	slnt32

---

## RtMgr.If.FndIPv6Addr

---

### Description

Find the RTIF matching a given IPv6 address.

### Remedy

None

### Severity

Debug-Data

### Message Text

Find RTIF matching %ipa%/%len% - Found (%msg%).

## Message Parameters

Name	Type
msg	String
ipa	String
len	slnt32

## 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.DeLSPInfo

---

### 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.DeILSPFEC

### 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.If.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

# 268 RtMgr.Kern Messages

RtMgr.Kern.AddIPv4Rt  
RtMgr.Kern.AddIPv6Rt  
RtMgr.Kern.ChgIPv6Rt  
RtMgr.Kern.AddILM  
RtMgr.Kern.DelILM  
RtMgr.Kern.AddNHLFE  
RtMgr.Kern.DelNHLFE  
RtMgr.Kern.ChgNHLFE  
RtMgr.Kern.ModNHLFEFail  
RtMgr.Kern.ModNHLFEOK  
RtMgr.Kern.BndFail  
RtMgr.Kern.GetSockNameFail  
RtMgr.Kern.InvAddrLen  
RtMgr.Kern.InvAddrFamily  
RtMgr.Kern.SendFail  
RtMgr.Kern.MsgInv  
RtMgr.Kern.MsgLenMatchFail  
RtMgr.Kern.InvRtAttr  
RtMgr.Kern.ProcUpdtRt  
RtMgr.Kern.UpdtRtFailInvTbl  
RtMgr.Kern.UpdtMPLSRt  
RtMgr.Kern.UpdtRtDelNonDrctRt  
RtMgr.Kern.UpdtRtDelIPv6Rt  
RtMgr.Kern.UpdtRtOK  
RtMgr.Kern.AddRt  
RtMgr.Kern.DelRt  
RtMgr.Kern.ReplRt  
RtMgr.Kern.MsgTrunc  
RtMgr.Kern.RecvTruncMsgFlag  
RtMgr.Kern.AddRtOK  
RtMgr.Kern.DelRtOK  
RtMgr.Kern.DelNHLFEFail  
RtMgr.Kern.DelNHLFEOK  
RtMgr.Kern.ChgKernEXFIBShimOK  
RtMgr.Kern.DelKernEXFIBShimOK  
RtMgr.Kern.MsgReqRecvNoRspns  
RtMgr.Kern.MsgReqFail

## 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
px	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=%px%

## Message Parameters

Name	Type
px	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 Instance 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.DeINHLFE

### Description

RTM deleting NHLFE Instance 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
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 Succeeded: 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

getsockname() 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

getsockname() 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.DeIRt

### 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

Name	Type
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% Successful.

### 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.DeINHLFEFail

### 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.DeINHLFEOK

### Description

NHLFE Modify Failed.

### Remedy

None

### Severity

Debug-Data

### Message Text

NHLFE Del Succeeded: 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

Modificaiton of Kernel EXFIB shim succeeded. 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 Succeeded: 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 succeeded. 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 Succeeded: 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

# 269 RtMgr.PingProtect Messages

RtMgr.PingProtect.GwUp  
RtMgr.PingProtect.GwDown  
RtMgr.PingProtect.StaticRtStateUp  
RtMgr.PingProtect.StaticRtStateDown  
RtMgr.PingProtect.GwProtectFail

## 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

# 270 RtMgr.Server Messages

RtMgr.Server.ProcRegClntMsgOK  
RtMgr.Server.LkupClntFail  
RtMgr.Server.CnctClntDown  
RtMgr.Server.RecvMsgSiz  
RtMgr.Server.RecvMsgType  
RtMgr.Server.ProcUnregClntMsgFail  
RtMgr.Server.ProcUnregClntMsgOK  
RtMgr.Server.ProcSetPurgTimerMsgFail  
RtMgr.Server.ProcSetPurgTimerMsgOK  
RtMgr.Server.ProcGetPurgTimerMsgFail  
RtMgr.Server.ProcGetPurgTimerMsgOK  
RtMgr.Server.ProcClrPurgTimerMsgFail  
RtMgr.Server.ProcClrPurgimertMsgOK  
RtMgr.Server.RecvOSPFEndUpdtMsgOK  
RtMgr.Server.PurgOSPFRTOK  
RtMgr.Server.RecvEndUpdtMsgOK  
RtMgr.Server.PurgVRRtOK  
RtMgr.Server.ProcAddVRMsgOK  
RtMgr.Server.ProcDelVRMsgOK  
RtMgr.Server.ProcAddRtMsgOK  
RtMgr.Server.RecvReplRtMsgOK  
RtMgr.Server.RecvReplRtMsg  
RtMgr.Server.ProcRegPfxMsgOK  
RtMgr.Server.ProcUnregPfxMsgOK  
RtMgr.Server.ProcRegPfxMsgFail  
RtMgr.Server.ProcUnregPfxMsgFail  
RtMgr.Server.ProcRegPfxTrkMsgOK  
RtMgr.Server.ProcUnregPfxTrkMsgOK  
RtMgr.Server.ProcRegPfxTrkMsgFail  
RtMgr.Server.ProcUnregPfxTrkMsgFail  
RtMgr.Server.ProcUnregAllPfxMsgOK  
RtMgr.Server.ProcUpdtRtMsgOK  
RtMgr.Server.ProcDelRtMsgOK  
RtMgr.Server.ProcGetProtoPrioMsgOK  
RtMgr.Server.ProcLkupRtMsgOK  
RtMgr.Server.ProcLkupRtMsgFail  
RtMgr.Server.ProcLkupRPFRTMsgOK



RtMgr.Server.ProcLkupRPFRTMsgFail  
RtMgr.Server.ProcGetRtMsgOK  
RtMgr.Server.ProcGetRtMsgFail  
RtMgr.Server.RecvGetBulkMsgRtOK  
RtMgr.Server.ProcGetBulkRtMsgOK  
RtMgr.Server.RecvLkupOSPFNhMsgOK  
RtMgr.Server.ProcLkupOSPFNhMsgOK  
RtMgr.Server.RecvLPMLkupMsgOK  
RtMgr.Server.ProcLPMLkupMsgOK  
RtMgr.Server.RecvBulkDelRtMsgOK  
RtMgr.Server.RecvRtTrvrsMsgOK  
RtMgr.Server.ProcRtTrvrsMsgOK  
RtMgr.Server.RecvRtNtfyMsgOK  
RtMgr.Server.ProcRtNtfyMsgOK  
RtMgr.Server.ProcRtNtfyNexthop  
RtMgr.Server.RecvAddLSPMsgOK  
RtMgr.Server.RecvDelLSPMsgOK  
RtMgr.Server.RecvUpdtLSPMsgOK  
RtMgr.Server.RecvAddLSPFECMsgOK  
RtMgr.Server.RecvDelLSPFECMsgOK  
RtMgr.Server.RecvUpdtLSPFECMsgOK  
RtMgr.Server.RecvUpdtLSPFECNexthop  
RtMgr.Server.RecvUpdtLSPDPMMsgOK  
RtMgr.Server.RecvFlushVRLSPMsgOK  
RtMgr.Server.RecvMsgTypeInv  
RtMgr.Server.RecvExprtMsg  
RtMgr.Server.RecvRegExprtMsgOK  
RtMgr.Server.RecvRegExprtMsgFail  
RtMgr.Server.RecvUpdtExprtMsgOK  
RtMgr.Server.RecvUpdtExprtMsgFail  
RtMgr.Server.RecvUnRegExprtMsgOK  
RtMgr.Server.RecvExprtMsgFail  
RtMgr.Server.ProcRegClntMsgFail  
RtMgr.Server.ProcAddVRMsgFail  
RtMgr.Server.ProcDelVRMsgFail  
RtMgr.Server.ProcAddRtMsgFail  
RtMgr.Server.ProcReplRtMsgOK  
RtMgr.Server.ProcReplRtMsgFail  
RtMgr.Server.ProcUnregAllPfxMsgFail  
RtMgr.Server.ProcUpdtRtMsgFail  
RtMgr.Server.ProcDelRtMsgFail  
RtMgr.Server.ProcGetProtoPrioMsgFail

RtMgr.Server.RtXlateFailInvLSP  
 RtMgr.Server.RecvL3VPNLbl  
 RtMgr.Server.SendLblMsg  
 RtMgr.Server.NotSendLblMsg  
 RtMgr.Server.SendRecurRtErrMsg  
 RtMgr.Server.ProcUpdateStart  
 RtMgr.Server.ProcUpdateEnd  
 RtMgr.Server.ProcPurgeTimer  
 RtMgr.Server.ProcMplsNextHop  
 RtMgr.Server.XCUpdateError  
 RtMgr.Server.MplsMibTrace  
 RtMgr.Server.IpmlAllocFail  
 RtMgr.Server.NtfulpmlQFull  
 RtMgr.Server.RecvReplRtMsgIgn

## RtMgr.Server.ProcRegCIntMsgOK

### 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% / %VRFCInt% for %NewRExist% with flag %flag% successfully.

### Message Parameters

Name	Type
client	String
VRFCInt	String
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 %c1ient% 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 %c1ient% 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	ulnt
client	ulnt

## 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% / %VRFCInt%

## Message Parameters

Name	Type
client	String
VRFCInt	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% succeeded 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	ulnt

## 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	ulnt
client	String
time	ulnt

## 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% succeeded

## 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% succeeded

## Message Parameters

Name	Type
pfx	String
client	String

## RtMgr.Server.ProcRegPfxMsgFail

### Description

Processing 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

Processing 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% succeeded

## 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% succeeded

### Message Parameters

Name	Type
pfx	String
client	String

---

## RtMgr.Server.ProcRegPfxTrkMsgFail

---

### Description

Processing 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

Processing 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% succeeded

## 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% succeeded

### 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% succeeded

## 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% succeeded.

## 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% succeeded result=%lkupRt% succeeded.

### 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% succeeded result=%lkupRt% succeeded.

## 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% succeeded 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% succeeded.

## 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

Processed 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% succeeded.

## 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% / %VRFCInt% with regInfo=%reginfo%

## Message Parameters

Name	Type
client	String
VRFCInt	String
reginfo	String

## RtMgr.Server.RecvRegExpMsgFail

### 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% / %VRFCInt% because %fstr%.

### Message Parameters

Name	Type
client	String
VRFCInt	String
fstr	String

---

## RtMgr.Server.RecvUpdtExpprtMsgOK

---

### 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% / %VRFCInt% with regInfo=%reginfo%

### Message Parameters

Name	Type
client	String
VRFCInt	String
reginfo	String

---

## RtMgr.Server.RecvUpdtExpprtMsgFail

---

### 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% / %VRFCInt% because %fstr%.



## Message Parameters

Name	Type
client	String
VRFCInt	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% / %VRFCInt%

## Message Parameters

Name	Type
client	String
VRFCInt	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.ProcRegCIntMsgFail

### 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% / %VRFCInt% failed because of alloc.

### Message Parameters

Name	Type
client	String
VRFCInt	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% succeeded

## 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.SendLbIMsg

### 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.NotSendLbIMsg

---

### 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 Recursive 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/disable 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: %t1vType%, TLV length: %t1vLength%  
%

## 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

Ignored 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



# 271 RtMgr.Table Messages

RtMgr.Table.FreeGwFail  
RtMgr.Table.LkupGwAlloc  
RtMgr.Table.ProcGwSetOK  
RtMgr.Table.ProcGwSetFail  
RtMgr.Table.ProcGwResetOK  
RtMgr.Table.LkupGwFail  
RtMgr.Table.CreatGwFail  
RtMgr.Table.CreatGwOK  
RtMgr.Table.UnregGwPfx  
RtMgr.Table.AttachTunGwToRt  
RtMgr.Table.DetachTunGwFromRt  
RtMgr.Table.AttachTunGwToIf  
RtMgr.Table.DetachTunGwFromIf  
RtMgr.Table.BldNtfyRtAddMsg  
RtMgr.Table.BldNtfyRtAddMsgDone  
RtMgr.Table.NtfyBestUniRtAdd  
RtMgr.Table.NtfyBestMcastRtAdd  
RtMgr.Table.NtfyRtDel  
RtMgr.Table.NtfyRtDelRdy  
RtMgr.Table.NtfyBestUniRtDel  
RtMgr.Table.NtfyBestMcastRtDel  
RtMgr.Table.ProcNtfyRtReplEvent  
RtMgr.Table.NtfyRtDelDueToRtRepl  
RtMgr.Table.NtfyRtAddDueToRtRepl  
RtMgr.Table.NtfyRtReplExprtFlag  
RtMgr.Table.NtfyRtReplUpdtFlag  
RtMgr.Table.ProcLkupAutoTun  
RtMgr.Table.Lkup6To4TunInv  
RtMgr.Table.Lkup6To4TunFail  
RtMgr.Table.ProcLkup6To4Tun  
RtMgr.Table.ProcInsRtEnt  
RtMgr.Table.InsRtEntSetFlagDown  
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RtMgr.Table.LkupRPFBestRtOK  
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RtMgr.Table.ProcMcastNtfyFail  
RtMgr.Table.ProcLkupRPFEnt  
RtMgr.Table.NtfyPfxRch  
RtMgr.Table.NtfyPfxUnrch  
RtMgr.Table.NtfyPfxUpdtRch  
RtMgr.Table.NtfyPfxRepl  
RtMgr.Table.ProcInstIPfx  
RtMgr.Table.InstIPfxMatchRt  
RtMgr.Table.InstIPfxRemFromRtNode  
RtMgr.Table.ProcUninstIPfx  
RtMgr.Table.UninstIPfxMatchRt  
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RtMgr.Table.UninstIPfxAddToRtTbl  
RtMgr.Table.ProcRegPfx  
RtMgr.Table.RegPfxMatchRt  
RtMgr.Table.ProcUnregPfx  
RtMgr.Table.UnregPfxRemFromRtNode  
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RtMgr.Table.VPNPfxNtfnOK  
RtMgr.Table.CreatRtTbIFail  
RtMgr.Table.ProcIndrctGwPfxNtfn  
RtMgr.Table.NotProcIndrctGwPfxNtfn  
RtMgr.Table.ProcIndrctGwNtfnMod  
RtMgr.Table.ProcIndrctGwNtfnOK  
RtMgr.Table.ProcIndrctGwSetFail  
RtMgr.Table.NtfyCIntOfLbl  
RtMgr.Table.ReplRtRecurErr  
RtMgr.Table.ProcIndrctGwNtfnNotOK  
RtMgr.Table.NtfyPfxTrckRch  
RtMgr.Table.NtfyPfxTrckUnrch  
RtMgr.Table.NtfyLinkLocIPv6Rt  
RtMgr.Table.AddRtProtoAttr  
RtMgr.Table.DelRtProtoAttr  
RtMgr.Table.AllocRtProtoAttr  
RtMgr.Table.FreeRtProtoAttr  
RtMgr.Table.NtfyCIntRtAdd  
RtMgr.Table.NtfyCIntRtDel  
RtMgr.Table.SyncVrStateOK  
RtMgr.Table.NtfyCIntSelfRtAdd  
RtMgr.Table.NtfyCIntSelfRtDel  
RtMgr.Table.ClrUnrslvPfxRtNode  
RtMgr.Table.ClrRslvPfxRtNode

## 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 intervention 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.AttachTunGwTolF

## 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
rtl	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

Notified 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=%nde1% 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
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 succeeded 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 succeeded 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 succeeded 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.DeIRtTbl

### 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

Synced Route Down for rt=%rt% reason=%reason% VR(F)=%vrname%

### Message Parameters

Name	Type
vrname	VR
rt	String
reason	String

## RtMgr.Table.DeIRtEntFail

### 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.DeIRtEntOK

## 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 Succeeded 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% resulted 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.RtRepNoPrevBestRt

### 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.RtRepINtfyDeIRt

## 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

Synced Route rt=%rt% because 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% succeeded 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% needLock=%needLock% preCnt=%preCnt% Cnt=%cnt% VR(F)=%vrname%

## Message Parameters

Name	Type
vrname	VR
ifname	String
ifRem	uint32
lAddr	String
mask	uint32
needLock	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% lAddr=%lAddr%/%mask% cStatic=%cStatic% cntDir=%cntDir% cntBootp=%cntBootp% cnt=%cnt% VR(F)=%vrname%

## Message Parameters

Name	Type
vrname	VR
ifIndex	uint32
lAddr	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% needLock=%needLock% 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
needLock	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% resulted 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% Succeeded 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.ProclFUpStaticMcast

### 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.ProclFUpStaticMcastFail

### Description

Processing If up

## Remedy

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

## Severity

Debug-Summary

## Message Text

Processing 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.PrevProclfdwnStMcast

## 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% Succeeded 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=%c1nt% 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=%c1nt% for pfx=%pfx%/%mask% pType=%pType% rt=%rt% VR(F)=%vrname%

### Message Parameters

Name	Type
vrname	VR
clnt	String
pfx	String



Name	Type
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% Succeeded 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 multicast 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.InstIPfxRemFromRtNode

### 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.ProcUninstIPfx

---

### 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% createlfUp=%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
c	slnt32
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	slnt32
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=%ttype%

## Message Parameters

Name	Type
a	VR
type	String
b	String

## RtMgr.Table.InstLSPtoPfxBestRt

## 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.InstLSPtoPfxNtfyClnt

---

### 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=%ttype%

## Message Parameters

Name	Type
a	VR
type	String
b	String

## RtMgr.Table.UninstLSPtoPfxBestRt

### 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.UninstLSPtoPfxNtfyCInt

### 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	ulnt32
ifIndex	ulnt32

## 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% resulted 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

Received 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 succeeded 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

Name	Type
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 vrlD=%id%

## Message Parameters

Name	Type
id	uint32

## RtMgr.Table.ProcIndrctGwPfxNtn

### 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.NotProcIndrctGwPfxNtn

### 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.ProcIndrctGwNtnMod

### 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 succeeded 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 Successfully 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.NtfyCIntOfLbl

---

### 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 Attribute 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 Attribute 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 allocated 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 Attribute 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 Attribute 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

Syncing of VR state was successfully completed. lock indicates if the table lock is needed and nrt is the number of routes synced.

### Remedy

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

### Severity

Debug-Summary

### Message Text

For VR(F)=%vr% Syncing of VR State to %state% succeeded Lock needed = (%lock%) #of routes synced = (%nrt%)

### Message Parameters

Name	Type
vr	VR
state	String
lock	uint32
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

# 272 RtMgr.VLAN Messages

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RtMgr.VLAN.SendIRDP  
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RtMgr.VLAN.FndTbIFail  
RtMgr.VLAN.SetL3VPNDetail

## 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	ulnt32
tun	String
tunIfInst	xInt32
tunIfIndex	xInt32
type	ulnt32

## 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
tunInst	xint32
tunIndex	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
vrlId	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
lflnst	xInt32
lflndex	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% lflnst=%lflnst% lflndex=%lflndex% addr=%addr%/%mask%

## Message Parameters

Name	Type
vrname	String
name	String
lflnst	xInt32
lflndex	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% vrlId=%vrId%

## Message Parameters

Name	Type
name	String
vrlId	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% vrlId=%vrId% VLAN %ifname% IfInst=%IfInst%

## Message Parameters

Name	Type
name	String
vrlId	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
vrlId	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.FndTbIFail

### 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

# 273 sflow Messages

---

sflow.StrtTaskOK

## sflow.StrtTaskOK

---

### Description

SFLOW Messages.

### Remedy

No remedy. Informational message.

### Severity

Info

### Message Text

Sflow Started successfully.

# 274 sflow.debug Messages

sflow.debug.AddCntSmplFail  
sflow.debug.RecvMsgInv  
sflow.debug.RecvSmplMsg  
sflow.debug.RecvSmplMsgInv  
sflow.debug.StrtThrtlProc  
sflow.debug.WritDevFail  
sflow.debug.AddSmplObjFail

## 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.RecvSmpIMsg

## Description

Received samples from module.

## Remedy

Debug message only

## Severity

Debug-Verbose

## Message Text

Received sample message bundle of length %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 %11% 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 %11% to %12%.

## 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

# 275 sflow.extended Messages

sflow.extended.ShowCnt  
sflow.extended.RecvMsgPeerUnk  
sflow.extended.fndPrtdbFail

## 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	ulnt
n4	ulnt
n5	ulnt

---

## 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 condition 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

# 276 sflow.msg Messages

sflow.msg.BldMcFDB  
sflow.msg.CreatSockFail  
sflow.msg.SetVrFail  
sflow.msg.OpnDevFail  
sflow.msg.CreatThrdFail

## 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.SetVrFail

## Description

Internal error.

## Remedy

Please check if the corresponding VR exists. If it does please contact tech support.

## Severity

Error

## Message Text

Could not set VR %vr1% on receiver %ip1%.

## Message Parameters

Name	Type
vr1	IP
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.

# 277 sflow.sample Messages

sflow.sample.RecvSmplErr  
sflow.sample.RecvSmpl  
sflow.sample.SlotSmplUnk  
sflow.sample.SlotFreqMaxReach

## 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

# 278 sflow.statistics Messages

## sflow.statistics.RxStatsMsg

### 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

# 279 SNMP Messages

## SNMP.DebugVerbose

### SNMP.DebugVerbose

#### Description

General log message

#### Remedy

No remedy is available.

#### Severity

Debug-Verbose

#### Message Text

%msg%

#### Message Parameters

Name	Type
msg	Printf

# 280 SNMP.Master Messages

---

SNMP.Master.CfgNotSync  
SNMP.Master.EventRecv  
SNMP.Master.InitDone  
SNMP.Master.SubagentReg  
SNMP.Master.SubagentCnct  
SNMP.Master.SubagentTerm  
SNMP.Master.ReqDropSNMPDsbl  
SNMP.Master.DropReqAccessDeny  
SNMP.Master.ReqDrop  
SNMP.Master.SendTrapFail  
SNMP.Master.ShutdownRecv  
SNMP.Master.EPICReqDrop  
SNMP.Master.ReqDropVRDsbl  
SNMP.Master.AuthFail

## SNMP.Master.CfgNotSync

---

### Description

The status of the backup is less than 'Config Synced', which means that the config is not in sync with the primary. Hence SNMP 'set' operations will not be successful.

### Remedy

If the system is rebooting, the status will probably become 'Config synced' soon. If it persists for a long time contact Extreme Networks support.

### Severity

Error

### Message Text

Backup config not in sync. SNMP set operation failed.



---

## 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.SubagentReg

---

### Description

snmpSubagent registration with snmpMaster complete.

### Remedy

NA

### Severity

Debug-Summary

### Message Text

snmpSubagent registered with snmpMaster

---

## 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.RegDropSNMPDsbl

---

### Description

SNMP is currently in disabled state. Hence any SNMP request will not be processed.

### Remedy

Enable SNMP by using the CLI command 'enable snmp access'

### Severity

Error

### Message Text

SNMP is currently disabled. Hence dropping the SNMP request.

---

## 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.ReqDrop

---

### Description

Either this is not the primary node or one of the two SNMP processes is not ready. Hence this SNMP Request is dropped.

### Remedy

This message will be seen if SNMP requests are sent to the switch as it is getting booted up. Things should behave normally as the bootup is complete. If this persists, contact Extreme Networks support.

### Severity

Debug-Summary

## Message Text

Either this is not the primary node or one of the two SNMP processes is not ready. Hence this SNMP Request is dropped.

## 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\_IMMEDIATE signal.

### Remedy

NA

### Severity

Debug-Summary

### Message Text

snmpMaster process received EPM\_PROCESS\_SHUTDOWN\_IMMINENT signal

## SNMP.Master.EPICReqDrop

---

### Description

The EPIC threads count has reached the MAX\_EPIC\_STREAM(5).

### Remedy

The EPIC packets will be dropped until any one of the EPIC thread is freed. If this persist contact Extreme Networks Tech Support.

### Severity

Error

### Message Text

EPIC Request has been dropped by SNMP Master.

## SNMP.Master.ReqDropVRDsbl

---

### Description

SNMP is currently in disabled state on this VR. Hence any SNMP request will not be processed on this VR.

### Remedy

Enable SNMP on this VR by using the CLI command 'enable snmp access vr "<vr\_name>"

### Severity

Warning

### Message Text

SNMP is currently disabled on VR %vrname%. Hence dropping the SNMP request on this VR.

## Message Parameters

Name	Type
vrname	String

## 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 entered wrong 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

# 281 SNMP.Subagent Messages

SNMP.Subagent.LoadLibFail  
SNMP.Subagent.LoadLibOK  
SNMP.Subagent.LibUnLoad  
SNMP.Subagent.ShutdownRecv  
SNMP.Subagent.MstrTerm  
SNMP.Subagent.SockInv  
SNMP.Subagent.CnctOK  
SNMP.Subagent.InitDone  
SNMP.Subagent.MstrRestrt

## 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\_IMMEDIATE signal.

### Remedy

NA

### Severity

Debug-Summary

### Message Text

snmpSubagent process received EPM\_PROCESS\_SHUTDOWN\_IMMEDIATE 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

Initialization 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.

# 282 STM.Library Messages

STM.Library.Error  
STM.Library.Warning  
STM.Library.Notice  
STM.Library.Info  
STM.Library.DebugSummary  
STM.Library.DebugVerbose  
STM.Library.DebugData  
STM.Library.MaxStackNodesExcd

## 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 unexpected 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

# 283 STP Messages

STP.CreatDmnFail  
STP.PhysPortInv  
STP.VLANNotAssocDmn  
STP.VLANAlrdyBndDmn  
STP.PhysPortAssocInv  
STP.CreatPortFail  
STP.PortAlrdyBndDmn  
STP.PortInuse  
STP.EnterSetPortVPSTState  
STP.Warning  
STP.Parmlnv  
STP.PortModeNotExpct  
STP.GetAvailPortFail  
STP.BndPortFail  
STP.AddActvPortFail  
STP.DomainEnable  
STP.DomainDisable  
STP.ChangeTag  
STP.FDBFlush  
STP.GetAvailDomainFail  
STP.BindAutobindFail  
STP.ESRPCConflict  
STP.NULLBridgeld  
STP.UnsupPhysInterface  
STP.FlushReason  
STP.LicenseError  
STP.IgnRSTPProp  
STP.NetLoginClntUnAuth  
STP.SendClntTopoChgMsg  
STP.AllocClntMsgFail  
STP.SendClntMsgFail  
STP.DsblPortLoopDtect  
STP.DsblPortBrdgDtect  
STP.EnblPortTimerExp

---

## 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 %stpName%

### Message Parameters

Name	Type
vlan	String
stpName	String

---

## STP.VLANAlrdyBndDmn

---

### Description

We are 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 %stpName%

## Message Parameters

Name	Type
vlanID	uint
stpName	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 %stpInstanceId%

## Message Parameters

Name	Type
portId	String
stpInstanceId	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 %stpName%, port %port%, %oldState% to %newState% (%vlanCnt% vlans)

### Message Parameters

Name	Type
stpName	String
port	String
oldState	uint8



Name	Type
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 `%stpdbname%` port `%portnum%` is in an unexpected mode (`%mode%`)

### Message Parameters

Name	Type
stpdbname	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 update the 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.NetLoginCIntUnAuth

### 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 necessarily 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.SendCIntTopoChgMsg

### 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.AllocCIntMsgFail

---

### 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.SendCIntMsgFail

---

### 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

# 284 STP.InBPDU Messages

STP.InBPDU.Drop  
STP.InBPDU.Dump  
STP.InBPDU.Trace  
STP.InBPDU.Ign  
STP.InBPDU.Mismatch  
STP.InBPDU.DropRxNonSTPPort

## 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

# 285 STP.OutBPDU Messages

STP.OutBPDU.Drop  
STP.OutBPDU.Dump  
STP.OutBPDU.Trace  
STP.OutBPDU.DropMaxAge

## 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

# 286 STP.State Messages

STP.State.PortRole  
STP.State.PortState  
STP.State.Topology  
STP.State.Timer  
STP.State.ProtocolMigration  
STP.State.Handshake

## 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

# 287 STP.System Messages

STP.System.InitFail  
STP.System AllocMemFail  
STP.System.InsNodeFail

## 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.

# 288 SyncE Messages

---

SyncE.Critical  
SyncE.Error  
SyncE.Warning  
SyncE.Info  
SyncE.DebugSummary  
SyncE.DebugVerbose  
SyncE.DebugData  
SyncE.DebugInit  
SyncE.RxPkt  
SyncE.TxPkt  
SyncE.ESMCPDUInvMaxSizExcd  
SyncE.Timer  
SyncE.RxEvent  
SyncE.TxEvent  
SyncE.RxFail  
SyncE.RxOK  
SyncE.TxFail  
SyncE.TxOK

## 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 occurred.

### 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 Synchronous 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



# 289 System Messages

System.Assert  
System.userComment

## 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

# 290 trace Messages

trace.TraceThis

## 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

# 291 TechSupport Messages

TechSupport.SendRprtOK  
TechSupport.CnctClctFail  
TechSupport.ClctRprtFail  
TechSupport.SendRprtFail  
TechSupport.CnctClctOK  
TechSupport.ClctRprtOK

## 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
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



# 292 telnetd Messages

---

telnetd.err  
telnetd.warn  
telnetd.note  
telnetd.info  
telnetd.d0  
telnetd.d1  
telnetd.d2  
telnetd.RejctConnAccessDeny

## 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 necessary

### 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

# 293 tftpd Messages

---

tftpd.err  
tftpd.warn  
tftpd.note  
tftpd.info  
tftpd.d0  
tftpd.d1  
tftpd.d2

## 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

# 294 thttpd Messages

---

thttpd.err  
thttpd.warn  
thttpd.note  
thttpd.info  
thttpd.d0  
thttpd.d1  
thttpd.d2  
thttpd.XMLRqst  
thttpd.XMLResponse  
thttpd.RejctConnAccessDeny

## thttpd.err

---

### Description

a thttp server serious error. thttp service will usually not be functional.

### Remedy

Please contact support personnel

### Severity

Error

### Message Text

%str%

### Message Parameters

Name	Type
str	String

---

## thttpd.warn

---

### Description

a thttp 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

---

## thttpd.note

---

### Description

a thttp server notice. Not an error.

### Remedy

no action necessary

### Severity

Notice

### Message Text

%str%

## Message Parameters

Name	Type
str	String

## thttpd.info

---

### Description

a thttp server informational message

### Remedy

No action is necessary

### Severity

Info

### Message Text

%str%

## Message Parameters

Name	Type
str	String

## thttpd.d0

---

### Description

a thttp server level 1 debug message

### Remedy

no action necessary

### Severity

Debug-Summary

## Message Text

%str%

## Message Parameters

Name	Type
str	String

## thttpd.d1

---

### Description

a thttp server level 2 debug message

### Remedy

no action necessary

### Severity

Debug-Verbose

## Message Text

%str%

## Message Parameters

Name	Type
str	String

## thttpd.d2

---

### Description

a thttp server level 3 debug message

### Remedy

no action is necessary

### Severity

Debug-Data

### Message Text

%str%

### Message Parameters

Name	Type
str	String

## thttpd.XMLRqst

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Debug-Summary

### Message Text

XML Request

## thttpd.XMLResponse

---

### Description

No description is available.

### Remedy

No remedy is available.

### Severity

Debug-Summary

## Message Text

XML Response

## thttpd.RejctConnAccessDeny

---

### Description

HTTP connection request from the specified source has been rejected by the configured access-list. This connection will not be permitted.

### Remedy

Check the access-list associated with the application.

### Severity

Warning

### Message Text

HTTP connection request from the source %address% has been denied by access-list %rule%.  
Rejecting connection.

### Message Parameters

Name	Type
address	String
rule	String



# 295 TRILL Messages

TRILL.DebugSummary  
TRILL.DebugVerbose  
TRILL.RxPkt  
TRILL.TxPkt  
TRILL.Trace  
TRILL.STPMsgDataNull  
TRILL.ProtIntfNotFound  
TRILL.TxSTPTCNFail  
TRILL.TraceStack  
TRILL.AllocMemFail  
TRILL.AddNickname  
TRILL.DeINickname  
TRILL.AddUserNickname  
TRILL.AddAutoNickname  
TRILL.OpenNicknameFileFail  
TRILL.StorNicknameFile  
TRILL.StorNicknameFileFail  
TRILL.InvNickname  
TRILL.ISMTimerStrt  
TRILL.ISMTimerStop  
TRILL.HelloTimerStrt  
TRILL.HelloTimerStop  
TRILL.VLANInhibTimerStrt  
TRILL.VLANInhibTimerStop  
TRILL.RootChgTimerStrt  
TRILL.RootChgTimerStop  
TRILL.TCNSendTimerStrt  
TRILL.TCNSendTimerStop  
TRILL.SendTCNPDUFail  
TRILL.SrchDRBVLANFail  
TRILL.TxNetTxFail  
TRILL.TxNetTxVLANInv  
TRILL.RxPDUEther  
TRILL.RxPDUNonEther  
TRILL.CreatVLANTbIFail  
TRILL.RxAreaAddrTLVMiss  
TRILL.RxSubTLVLenExcd

TRILL.RxSubTLVLenZero  
 TRILL.RxAreaAddrTLVNoZero  
 TRILL.RxPDUcksumErr  
 TRILL.TxSubTLVLenExcd  
 TRILL.TxTLVProtLenInv  
 TRILL.TxTLVAreaAddrLenInv  
 TRILL.MTUTimerStrt  
 TRILL.MTUTimerStop  
 TRILL.DBTrace  
 TRILL.HalTrace

## TRILL.DebugSummary

### Description

TRILL Debug event 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

## TRILL.DebugVerbose

### Description

TRILL Debug event 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

## TRILL.RxPkt

## Description

TRILL Control Packets received from network.

## Remedy

No action required - Informational message only.

## Severity

Debug-Data

## Message Text

Incoming packet from port %slotport% with a length of %length% bytes

## Message Parameters

Name	Type
slotport	ingressSlotPort
ptr	Buf-ptr
length	Buf-len

---

## TRILL.TxPkt

---

### Description

TRILL Control Packets sent into network.

### Remedy

No action required - Informational message only.

### Severity

Debug-Data

### Message Text

Outgoing packet to port `%slotport%` with a length of `%length%` bytes

### Message Parameters

Name	Type
slotport	egressSlotPort
ptr	Buf-ptr
length	Buf-len

---

## TRILL.Trace

---

### Description

TRILL Debug event displayed when user wishes to view Stack debug information.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

`%LogMsg%`

## Message Parameters

Name	Type
logMsg	Printf

## TRILL.STPMsgDataNull

### Description

Received an Spanning Tree Protocol message where the payload data was missing.

### Remedy

STP may have been configured improperly. Confirm STP configuration is correct.

### Severity

Warning

### Message Text

STP Notification %opcode% had no data.

## Message Parameters

Name	Type
opcode	uint

## TRILL.ProtIntfNotFound

### Description

Unable to find protocol information for port object for a given ifIndex.

### Remedy

Port may not be properly added to a TRILL VLAN. Ensure ports are properly added to a TRILL network or access VLAN.

### Severity

Warning

## Message Text

Protocol port information for ifIndex %ifIndex% not found.

## Message Parameters

Name	Type
ifIndex	uint

## TRILL.TxSTPTCNFail

---

### Description

Tried to send a Spanning Tree Protocol Topology Change Notification BPDU out of a port but failed to do so.

### Remedy

Port may not be properly added to a TRILL VLAN. Ensure ports are properly added to a TRILL network or access VLAN.

### Severity

Warning

### Message Text

Unable to send STP TCN from port %portString%

### Message Parameters

Name	Type
portString	String

## TRILL.TraceStack

---

### Description

TRILL Debug to trace calls from stack to EXOS

### Remedy

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

%logMsg%

## Message Parameters

Name	Type
logMsg	Printf

# TRILL.AllocMemFail

---

## Description

System was unable to allocate enough memory required for an object.

## Remedy

This is a rare occurrence. TRILL may have consumed all available memory, possibly due to a memory leak in the TRILL module. Contact Technical Support with memory usage statistics, including full show tech output.

## Severity

Critical

## Message Text

Failed to allocate %bytes% of memory.

## Message Parameters

Name	Type
bytes	uint32

# TRILL.AddNickname

---

## Description

Nickname added to network wide Nickname Database

## Remedy

No action required - Informational message only.

## Severity

Info

## Message Text

Added nickname:%nickName% priority %priority% root-priority %rootPriority% to network wide nickname database.

## Message Parameters

Name	Type
nickName	xInt32
priority	uInt32
rootPriority	uInt32

## TRILL.DeINickname

### Description

Nickname deleted from network wide Nickname Database

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

Deleted nickname:%nickName% priority %priority% root-priority %rootPriority% to network wide nickname database.



## Message Parameters

Name	Type
nickName	xInt32
priority	uInt32
rootPriority	uInt32

## TRILL.AddUserNickname

### Description

User created RBridge nickname added to this local RBridge's list of nicknames

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

Locally user created RBridge nickname %nickName% priority %priority% root-priority %rootPriority%

## Message Parameters

Name	Type
nickName	xInt32
priority	uInt32
rootPriority	uInt32

## TRILL.AddAutoNickname

### Description

Auto created RBridge nickname added to this local RBridge's list of nicknames

### Remedy

No action required - Informational message only.

## Severity

Info

## Message Text

Locally user create RBridge nickname added an auto-generated nickname %nickName% priority %priority% root-priority %rootPriority%

## Message Parameters

Name	Type
nickName	xInt32
priority	uInt32
rootPriority	uInt32

## TRILL.OpenNicknameFileFail

### Description

Auto-generated nicknames are stored in a file for re-use across reboots.

### Remedy

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

## Severity

Warning

## Message Text

Auto generated nickname could not be read from nickname file %nickNameFile%

## Message Parameters

Name	Type
nickNameFile	String

---

## TRILL.StorNicknameFile

---

### Description

Auto-generated nicknames are stored in a file for re-use across reboots.

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

Auto generated nickname successfully stored to nickname file %nickNameFile%

### Message Parameters

Name	Type
nickNameFile	String

---

## TRILL.StorNicknameFileFail

---

### Description

Auto-generated nicknames are stored in a file in flash for re-use across reboots. System was unable to store the active nickname to this file. Flash may be going bad, and may need to be replaced.

### Remedy

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

### Severity

Warning

### Message Text

Auto generated nickname could not be saved to nickname file %nickNameFile%

## Message Parameters

Name	Type
nickNameFile	String

## TRILL.InvNickname

### Description

Nickname was invalid. Valid nicknames are 0x0001 to 0xFFBF. The nickname value 0x0000 and the values from 0xFFC0 through 0xFFFF are reserved

### Remedy

Please ensure all configured nicknames are valid on local and remote switches.

### Severity

Warning

### Message Text

Invalid nickname %nickName%

## Message Parameters

Name	Type
nickName	xInt32

## TRILL.ISMTimerStrt

### Description

State machine timer was started.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

## Message Text

State Machine Timer %threadPtr% started.

## Message Parameters

Name	Type
threadPtr	Ptr

---

## TRILL.ISMTimerStop

### Description

ISIS State machine timer was stopped.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

## Message Text

ISIS State Machine Timer %threadPtr% stopped.

## Message Parameters

Name	Type
threadPtr	Ptr

---

## TRILL.HelloTimerStrt

### Description

Hello timer was started.

### Remedy

No action required - Informational message only.

## Severity

Debug-Verbose

## Message Text

Hello Timer %threadPtr% on port %port% started.

## Message Parameters

Name	Type
threadPtr	Ptr
port	String

## TRILL.HelloTimerStop

---

### Description

Hello timer was stopped.

### Remedy

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

## Severity

Debug-Verbose

## Message Text

Hello Timer %threadPtr% stopped.

## Message Parameters

Name	Type
threadPtr	Ptr

## TRILL.VLANInhibTimerStrt

---

### Description

VLAN Inhibition timer was started.

## Remedy

No action required - Informational message only.

## Severity

Debug-Verbose

## Message Text

VLAN Inhibition Timer Started at %threadPtr% on port %port% %duration% sec, started.

## Message Parameters

Name	Type
threadPtr	Ptr
port	String
duration	uint32

## TRILL.VLANInhibTimerStop

## Description

VLAN Inhibition timer was stopped.

## Remedy

No action required - Informational message only.

## Severity

Debug-Verbose

## Message Text

VLAN Inhibition Timer %threadPtr% stopped.

## Message Parameters

Name	Type
threadPtr	Ptr

---

## TRILL.RootChgTimerStrt

---

### Description

STP Root change timer was started

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

STP Root Change timer %threadPtr% for port %port% started.

### Message Parameters

Name	Type
threadPtr	Ptr
port	String

---

## TRILL.RootChgTimerStop

---

### Description

STP Root Change timer was stopped.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

STP Root Change timer stopped.



## Message Parameters

Name	Type
threadPtr	Ptr

## TRILL.TCNSendTimerStrt

### Description

Spanning Tree Protocol send timer was started

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

STP TCN Send Timer %threadPtr% started.

## Message Parameters

Name	Type
threadPtr	Ptr
port	String
duration	uint32

## TRILL.TCNSendTimerStop

### Description

Spanning Tree Protocol Topology Change Notification send timer was stopped.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

## Message Text

STP TCN Send Timer %threadPtr% stopped.

## Message Parameters

Name	Type
threadPtr	Ptr

## TRILL.SendTCNPDUFail

---

### Description

Failed to send a Topology Change Notification PDU.

### Remedy

Verify the port is added to a TRILL access VLAN.

### Severity

Warning

### Message Text

Failed to send TCN PDU out of port %port%

### Message Parameters

Name	Type
port	String

## TRILL.SrchDRBVLANFail

---

### Description

TRILL Designated Route Bridge could not find any VLANs enabled on this port. Defaulting to vid 1

### Remedy

Verify that the port is added to at least one VLAN that has been added to TRILL.

## Severity

Warning

## Message Text

DRB found no VLANs enabled on %port%. Defaulting designated VLAN to vid 1

## Message Parameters

Name	Type
port	String

## TRILL.TxNetTxFail

### Description

Failed to transmit packet via NetTx

### Remedy

Verify the port is enabled and added to the VLAN.

### Severity

Warning

### Message Text

Failed to transmit packet on port %port% VLAN %vlan% ret %ret%

### Message Parameters

Name	Type
port	SlotPort
vlan	uint16
ret	sint

## TRILL.TxNetTxVLANInv

### Description

Failed to transmit packet via NetTx because VLAN instance not found for output VLAN.

## Remedy

Verify the port is enabled and added to the VLAN.

## Severity

Warning

## Message Text

VLAN instance %vlanInst% for VLAN %ovlan% is invalid

## Message Parameters

Name	Type
vlanInst	sInt
ovlan	uint16

## TRILL.RxPDUEther

### Description

Received a TRILL Ethernet based PDU. Dump info.

### Remedy

No action required - Informational message only.

### Severity

Debug-Data

### Message Text

Received PDU %pduType% from %mac% on port %port%. Length:%len% VLAN:%vlan%

### Message Parameters

Name	Type
pduType	String
mac	String
port	String

Name	Type
len	uint32
vlan	uint16

## TRILL.RxPDUNonEther

### Description

Received a TRILL non-Ethernet based PDU. Dump info.

### Remedy

No action required - Informational message only.

### Severity

Debug-Data

### Message Text

Received PDU %pduType% on port %port%. Length:%len%

### Message Parameters

Name	Type
pduType	String
port	String
len	uint32

## TRILL.CreatVLANTbIFail

### Description

At process start up, the VLAN table could not be created and initialized.

### Remedy

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

### Severity

Error

### Message Text

Failed to create the VLAN table.

## TRILL.RxAreaAddrTLVMiss

---

### Description

Expecting Area Address TLV to be present in LSP, but not found.

### Remedy

Verify peer switch is configured properly. If the peer switch is not an Extreme Networks switch, verify that it is including the Area Address TLV in its LSP updates.

### Severity

Error

### Message Text

Area Address TLV missing for LSP %1spId%.%id6%.%id7%. Discard PDU.

### Message Parameters

Name	Type
lspId	String
id6	xInt32
id7	xInt32

## TRILL.RxSubTLVLenExcd

---

### Description

Sub-TLV length was invalid since it exceeded total TLV length

### Remedy

Verify peer switch is configured properly.

### Severity

Error

### Message Text

Sub-TLV length exceeded total TLV length. Unable to process.

## TRILL.RxSubTLVLenZero

---

### Description

Sub-TLV length was zero, which is invalid.

### Remedy

Verify peer switch is configured properly.

### Severity

Warning

### Message Text

Sub-TLV length was zero for Router Capability TLV

## TRILL.RxAreaAddrTLVNoZero

---

### Description

The Area TLV was missing the zero address

### Remedy

Verify peer switch is configured properly.

### Severity

Error

### Message Text

Zero Address should be present in Area TLV for LSP %1spId%.%id6%.%id7%. Discard PDU.

## Message Parameters

Name	Type
lspld	String
id6	xInt32
id7	xInt32

## TRILL.RxPDUcksumErr

### Description

Checksum error seen for PDU

### Remedy

Verify peer switch has properly configured TRILL.

### Severity

Warning

### Message Text

Checksum Error for LSP %lspld%.%id6%.%id7%.

## Message Parameters

Name	Type
lspld	String
id6	xInt32
id7	xInt32

## TRILL.TxSubTLVLenExcd

### Description

Cannot send PDU. Sub-TLV length was invalid since it exceeded total TLV length

### Remedy

Contact technical support



## Severity

Error

## Message Text

Unable to send PDU. Sub-TLV length `%stlvLen%` exceed total TLV length `%totalLen%`

## Message Parameters

Name	Type
stlvLen	uint32
totalLen	uint32

## TRILL.TxTLVProtLenInv

### Description

Cannot send PDU. Protocols TLV length was invalid since it did not match required length

### Remedy

This is a TRILL condition needing technical assistance. Contact technical support with "show tech" information

## Severity

Error

## Message Text

Invalid Protocols Support TLV length `%tlvLen%`. Required length `%reqLen%`

## Message Parameters

Name	Type
tlvLen	uint32
reqLen	uint32

---

## TRILL.TxTLVAreaAddrLenInv

---

### Description

Cannot send PDU. Area Address TLV length was invalid since it did not match required length

### Remedy

This is a rare TRILL condition needing technical assistance. Contact technical support with "show tech" information

### Severity

Error

### Message Text

Invalid Area Address TLV length %tlvLen%. Required length %reqLen%

### Message Parameters

Name	Type
tlvLen	uint32
reqLen	uint32

---

## TRILL.MTUTimerStrt

---

### Description

Maximum Transmission Unit timer was started.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

MTU Timer %threadPtr% on port %port% started.

## Message Parameters

Name	Type
threadPtr	Ptr
port	String

## TRILL.MTUTimerStop

### Description

Maximum Transmission Unit timer was stopped.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

MTU Timer %threadPtr% stopped.

## Message Parameters

Name	Type
threadPtr	Ptr

## TRILL.DBTrace

### Description

TRILL Database events like Adjacency, Next-Hop, FIB processing when an internal/external event occurs. Context here gives an indication of when this event occurs. Possible values are FIB-ADD, FIB-DEL, ADJ-ADD, ADJ-DEL etc.

### Remedy

No action required - Informational message only.

## Severity

Debug-Verbose

## Message Text

%context%: %logMsg%

## Message Parameters

Name	Type
context	String
logMsg	Printf

## TRILL.HalTrace

### Description

TRILL protocol events to HAL after it has been dispatched from the TRILL process. Context here gives an indication of when this event occurs. Possible values are NICK-ADD, FIB-ADD, FIB-DEL etc.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

%context%: Successfully sent HAL message %msgId%. %logMsg%

### Message Parameters

Name	Type
context	String
msgId	uint32
logMsg	Printf

# 296 TRILL.HELLO Messages

---

```
TRILL.HELLO.RxSrcSysIDSame
TRILL.HELLO.RxSrcSysIDMismatch
TRILL.HELLO.RxMACMismatch
TRILL.HELLO.RxCircIdMismatch
TRILL.HELLO.RxLinkTypeMismatch
TRILL.HELLO.RxLinkTypeChg
TRILL.HELLO.RxAreaMismatch
TRILL.HELLO.RxNoProto
TRILL.HELLO.RxProtoMismatch
TRILL.HELLO.Rx3WayInv
TRILL.HELLO.RxSysIDMismatch
TRILL.HELLO.RxExtCircIdMismatch
TRILL.HELLO.NbrAddLocalFail
TRILL.HELLO.NbrAddGlobalFail
TRILL.HELLO.DtectMultiP2PNbr
```

## TRILL.HELLO.RxSrcSysIDSame

---

### Description

A Hello packet of the specified type was received from a neighbor whose System ID is identical to the System ID of the receiving switch.

### Remedy

No TRILL rbridge in a TRILL routing domain should have the same System ID configured. Either change the System ID of the receiving rbridge or change the System ID of the transmitting rbridge.

### Severity

Warning

### Message Text

Received %pduType% Hello PDU on port %ifName% with same System ID, %sysID%, as this RBridge.

## Message Parameters

Name	Type
pduType	String
sysID	srcMAC
ifName	String

## TRILL.HELLO.RxSrcSysIDMismatch

### 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 rbridge. Hello packets will continue to be discarded until the adjacency is declared dead or until the system ID on the transmitting rbridge is reverted.

### Severity

Notice

### Message Text

Received %pduType% Hello PDU on P2P port %ifName% whose System ID %sysID% does not match the existing System ID entry for this port.

## Message Parameters

Name	Type
pduType	String
sysID	srcMAC
ifName	String

## TRILL.HELLO.RxMACMismatch

### Description

The MAC address of the specified neighbor changed.

## Remedy

Check the configuration of the transmitting rbridge(s) on this interface. It is possible that multiple rbridges are configured with the same system ID on this port - 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 rbridge and re-add it. Note that this may result in a temporary blackhole.

## Severity

Warning

## Message Text

Received %pduType% Hello PDU on port %ifName% with System ID %sysID% and MAC address %srcMAC%, whose MAC address does not match this neighbor entry's current MAC address.

## Message Parameters

Name	Type
pduType	String
ifName	String
sysID	String
srcMAC	srcMAC

## TRILL.HELLO.RxCircIdMismatch

### 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 TRILL and adding it back. This effectively erases the neighbor table for that interface.

### Severity

Warning

## Message Text

Received %pduType% Hello PDU on P2P port %ifName% with System ID %sysID% whose Circuit ID %circID% does not match the existing Circuit ID for this port.

## Message Parameters

Name	Type
pduType	String
ifName	String
sysID	String
circID	uint

## TRILL.HELLO.RxLinkTypeMismatch

### 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 rbridge(s). Both or all interfaces that comprise this adjacency must be configured as the same link type - broadcast or point-to-point.

### Severity

Warning

## Message Text

Received %pduType% Hello PDU on port %ifName% with System ID %sysID% whose Link Type does not match the existing Link Type for this port.

## Message Parameters

Name	Type
pduType	String
ifName	String
sysID	String



## TRILL.HELLO.RxLinkTypeChg

---

### Description

A P2P hello packet was received with a different link type. The existing entry will be removed .

### Remedy

Check the configuration of the interface in question as well as the neighboring rbridge(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

Received %pduType% Hello PDU on P2P port %ifName% with System ID %sysID% whose Link Type has changed.

### Message Parameters

Name	Type
pduType	String
ifName	String
sysID	String

## TRILL.HELLO.RxAreaMismatch

---

### Description

A hello packet was received with the incorrect area address.

### Remedy

All rbridges 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 rbridges in this area to be sure this is the case.

### Severity

Warning

## Message Text

Received %pduType% Hello PDU on port %ifName% with System ID %sysID% whose area address does not match the area address for this rbridge.

## Message Parameters

Name	Type
pduType	String
ifName	String
sysID	String

## TRILL.HELLO.RxNoProto

### Description

A hello packet was received with no protocol support TLV in PDU.

### Remedy

Extreme's implementation of TRILL only supports TRILL protocol support. Be sure the neighboring rbridge's interface has TRILL enabled.

### Severity

Warning

## Message Text

Received %pduType% Hello PDU on port %ifName% with System ID %sysID% that was missing the supported protocols information.

## Message Parameters

Name	Type
pduType	String
ifName	String
sysID	String

---

## TRILL.HELLO.RxProtoMismatch

---

### Description

A hello packet was received and includes indication that no protocols supported by the neighbor are also supported by this rbridge.

### Remedy

In a multi-topology 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

Received %pduType% Hello PDU on P2P port %ifName% with System ID %sysID% that does not match the supported protocols on this rbridge

### Message Parameters

Name	Type
pduType	String
ifName	String
sysID	String

---

## TRILL.HELLO.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 it supports the point-to-point three way handshake.

## Severity

Warning

## Message Text

Received %pduType% Hello PDU on P2P port %ifName% with System ID %sysID% that contained an invalid 3-way handshake state.

## Message Parameters

Name	Type
pduType	String
ifName	String
sysID	String

# TRILL.HELLO.RxSysIDMismatch

## Description

A 3-way handshake TLV in a point-to-point Hello PDU did not contain the correct neighbor (this rbridge'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 TRILL rbridges are active on the connecting port. No more than two TRILL rbridges may operate in a point-to-point adjacency.

## Severity

Warning

## Message Text

Received %pduType% Hello PDU during a 3-way handshake on P2P port %ifName% with System ID %sysID% that did not match the local rbridge System ID.

## Message Parameters

Name	Type
pduType	String
ifName	String
sysID	String

## TRILL.HELLO.RxExtCircIdMismatch

### Description

A 3-way handshake TLV in a point-to-point Hello PDU did not contain the correct neighbor (this rbridge's) circuit ID.

### Remedy

Packets may be leaking to the wrong port and TRILL interface via a network misconfiguration. Confirm that only two TRILL rbridges are participating in this point-to-point adjacency and that hello packets cannot cross to other ports.

### Severity

Notice

### Message Text

Received %pduType% Hello PDU during a 3-way handshake on P2P port %ifName% with System ID %sysID% that did not match the local rbridge circuit ID.

### Message Parameters

Name	Type
pduType	String
ifName	String
sysID	String

## TRILL.HELLO.NbrAddLocalFail

### 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 affected interface from TRILL and re-adding it.

## Severity

Notice

## Message Text

Failed to insert neighbor entry with System ID %sysID% discovered on port %ifName% into Local Neighbor database

## Message Parameters

Name	Type
ifName	String
sysID	String

## TRILL.HELLO.NbrAddGlobalFail

### 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 TRILL rbridges 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

Failed to insert neighbor entry with System ID %sysID% discovered on port %ifName% into Global Neighbor database

## Message Parameters

Name	Type
ifName	String
sysID	String

---

## TRILL.HELLO.DtectMultiP2PNbr

---

### Description

Another P2P neighbor was detected on a port that is configured for P2P and already has a P2P neighbor. This may occur if a port is configured for P2P and is connected to an L2 switch with more than two connected RBridges configured for P2P.

### Remedy

In this case the broadcast link type should be used on all the RBridges connected to the L2 switch. This can be done with the command "configure trill ports <port> link-type broadcast".

### Severity

Warning

### Message Text

Detected multiple P2P neighbors on a P2P link. Detected %sysIDNew% on port %ifName%. Current P2P neighbor is %sysIDCurr%.

### Message Parameters

Name	Type
ifName	String
sysIDCurr	String
sysIDNew	String

# 297 TRILL.IFSM Messages

TRILL.IFSM.IfUp  
TRILL.IFSM.IfDown  
TRILL.IFSM.CircIDMaxExc  
TRILL.IFSM.IfCircDown  
TRILL.IFSM.HelloTimerExp  
TRILL.IFSM.CSNPTimerExp  
TRILL.IFSM.EventIgn  
TRILL.IFSM.StateChg  
TRILL.IFSM.ProcEvent  
TRILL.IFSM.Trace  
TRILL.IFSM.SuspTimerExp  
TRILL.IFSM.ElectDRB

## TRILL.IFSM.IfUp

### Description

The specified interface has transitioned to up.

### Remedy

No action required. 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



## TRILL.IFSM.IfDown

---

### Description

The specified interface has transitioned to down.

### Remedy

No action required. 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

## TRILL.IFSM.CircIDMaxExc

---

### Description

A maximum of 255 circuit IDs is possible per TRILL protocol. The specified interface could not be enabled as result of exceeding this limit.

### Remedy

Configure fewer interfaces.

### Severity

Warning

### Message Text

Area %areaName%, interface %ifName%: Maximum number of circuit IDs (255) exhausted

## Message Parameters

Name	Type
areaName	String
ifName	String

## TRILL.IFSM.IfCircDown

### Description

The specified circuit has transitioned to down.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%ifName%:L%level%: interface circuit down called

## Message Parameters

Name	Type
ifName	String
level	uint

## TRILL.IFSM.HelloTimerExp

### Description

The hello timer expired for the specified interface and level. A Hello PDU is being sent as a result.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

## Message Text

%ifName%:%level%: Hello timer expire

## Message Parameters

Name	Type
ifName	String
level	String

## TRILL.IFSM.CSNPTimerExp

### Description

The Complete Sequence Number PDU (CSNP) timer expired for the specified interface and level. A CSNP is being sent as a result.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

## Message Text

%ifName%:%level%: CSNP timer expire

## Message Parameters

Name	Type
ifName	String
level	String

## TRILL.IFSM.EventIgn

### Description

An event was ignored.

## Remedy

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

%ifName%:%level%: event ignored

## Message Parameters

Name	Type
ifName	String
level	String

## TRILL.IFSM.StateChg

### Description

A state change occurred on the specified interface.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%ifName%:%level%: state change %oldState% to %newState%

### Message Parameters

Name	Type
ifName	String
level	String
oldState	String
newState	String

## TRILL.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

## TRILL.IFSM.Trace

---

### Description

Function level debug trace of interface state machine.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

%logMsg%

## Message Parameters

Name	Type
logMsg	Printf

## TRILL.IFSM.SuspTimerExp

### Description

The suspension timer expired for the specified interface and level.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%ifName%:%level%: Suspension timer expire

## Message Parameters

Name	Type
ifName	String
level	String

## TRILL.IFSM.ElectDRB

### Description

Designated RBridge for interface has been selected.

### Remedy

No action required - Informational message only.

### Severity

Notice

## Message Text

`%ifName%:%level%: DRB is now %drb%`

## Message Parameters

Name	Type
ifName	String
level	uint
drb	String

# 298 TRILL.LSP Messages

TRILL.LSP.Add  
TRILL.LSP.AddSelf  
TRILL.LSP.AddSNP  
TRILL.LSP.UpdtSelf  
TRILL.LSP.Del  
TRILL.LSP.DelSelf  
TRILL.LSP.RxLifeZero  
TRILL.LSP.RxNew  
TRILL.LSP.RxSame  
TRILL.LSP.RxOld  
TRILL.LSP.RxSameSNP  
TRILL.LSP.AgeOut  
TRILL.LSP.NotFloodSRMFlagClr  
TRILL.LSP.NotFloodNoNbr  
TRILL.LSP.NotFloodExcdMtu  
TRILL.LSP.RxSelfCSNP  
TRILL.LSP.Proc  
TRILL.LSP.AuthFail  
TRILL.LSP.CksumFail  
TRILL.LSP.LifeInv  
TRILL.LSP.RxSelfPSNP  
TRILL.LSP.TLVData  
TRILL.LSP.Flood  
TRILL.LSP.DupSysIdDtect  
TRILL.LSP.Trace  
TRILL.LSP.InitRfrshEvent  
TRILL.LSP.RfrshTimerStrt  
TRILL.LSP.RfrshTimerStop  
TRILL.LSP.FloodTimerStrt  
TRILL.LSP.FloodTimerStop  
TRILL.LSP.NicknameInv  
TRILL.LSP.RemPSNFmExtndRchTLV



## TRILL.LSP.Add

---

### Description

This is an informational message indicating that an Link State PDU with the specified ID has been added to the the Link State PDU database.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%lspId%: added to LSPDB

### Message Parameters

Name	Type
lspId	String

## TRILL.LSP.AddSelf

---

### Description

The switch generated an Link State PDU and added it to the LSP database.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%lspId%:%psnId%-%lspNum% self-generated LSP added to LSPDB

## Message Parameters

Name	Type
lspId	String
psnId	uint
lspNum	uint

## TRILL.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

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%1lspId%: new LSP created from received SNP

## Message Parameters

Name	Type
lspId	String

## TRILL.LSP.UpdtSelf

### Description

The LSPDB entry for this switch is being updated.

### Remedy

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

%lspId%: updating LSPDB with self-generated LSP

## Message Parameters

Name	Type
lspId	String

## TRILL.LSP.Del

### Description

The specified LSP was deleted from the LSP database.

### Remedy

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

### Severity

Debug-Summary

### Message Text

%lspId%: delete from LSPDB

### Message Parameters

Name	Type
lspId	String

## TRILL.LSP.DelSelf

### Description

The specified Link State PDU, which was originated on this switch, was deleted from the LSP database.

## Remedy

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

%lspId%:%psnId%-%lspNum% self-generated LSP deleted from LSPDB

## Message Parameters

Name	Type
lspId	String
psnId	uint
lspNum	uint

## TRILL.LSP.RxLifeZero

### Description

The specified LSP contains a remaining lifetime of zero. As a result, this LSP will be purged if it hasn't already.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%lspId%: received LSP's remaining lifetime of zero

### Message Parameters

Name	Type
lspId	String

---

## TRILL.LSP.RxNew

---

### 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

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%1spId%: received LSP is newer than DB copy

### Message Parameters

Name	Type
lspId	String

---

## TRILL.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

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%1spId%: received LSP is same as DB copy

## Message Parameters

Name	Type
lspId	String

## TRILL.LSP.RxOld

### Description

The received LSP is older than the copy in the LSP database. The copy in the database will be flooded out of the receiving interface as a result.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%lspId%: received LSP is older than DB copy

## Message Parameters

Name	Type
lspId	String

## TRILL.LSP.RxSameSNP

### Description

A previous Partial Sequence Number Packet (PSNP) was sent for the specified LSP. The complete LSP was expected, but an Sequence Number Packet was received instead. As a result, the LSP will be requested again with a PSNP.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

## Message Text

%lspId%: same LSP entry received, sending PSNP again

## Message Parameters

Name	Type
lspId	String

## TRILL.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

No action required - Informational message only.

### Severity

Debug-Summary

## Message Text

%lspId%: Zero Age reached, purging in process

## Message Parameters

Name	Type
lspId	String

## TRILL.LSP.NotFloodSRMFlagClr

### 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

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

%lspId%: SRM flag is already cleared on %ifName%

## Message Parameters

Name	Type
lspId	String
ifName	String

## TRILL.LSP.NotFloodNoNbr

### Description

The specified LSP was queued for flooding but was not flooded since there no neighbors present on the LSP's level.

### Remedy

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

## Severity

Debug-Summary

## Message Text

%lspId%: no valid L%level% neighbor, not flooding

## Message Parameters

Name	Type
lspId	String
level	uint



---

## TRILL.LSP.NotFloodExcdMtu

---

### Description

The specified LSP is larger than the specified interface's MTU. As a result, the LSP cannot be propagated over that interface.

### Remedy

The MTU on this adjacency may not be sufficient for TRILL 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

---

## TRILL.LSP.RxSelfCSNP

---

### Description

An Complete Sequence Number Packet (CSNP) was received containing an LSP originated from this switch.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

## Message Text

L%level%-CSNP received self-originated LSP entry

## Message Parameters

Name	Type
level	uint

## TRILL.LSP.Proc

### Description

The specified LSP is being processed.

### Remedy

No action required - Informational message only.

### 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

## TRILL.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 appropriate 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

## TRILL.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

## TRILL.LSP.LifeInv

### Description

The specified LSP includes a remaining lifetime that exceeds the configured maximum age.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

## Message Text

%lspId%: lifetime (%lifetime%) is greater than max age (%maxAge%)

## Message Parameters

Name	Type
lspId	String
lifetime	ulnt
maxAge	ulnt

## TRILL.LSP.RxSelfPSNP

### Description

A Partial Sequence Number Packet (PSNP) was received containing an LSP originated from this switch.

## Remedy

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

L%level%-PSNP received self-originated LSP entry

## Message Parameters

Name	Type
level	uint

## TRILL.LSP.TLVData

## Description

The specified that a TLV entry for a LSP is being processed.

## Remedy

No action required - Informational message only.

## 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

## TRILL.LSP.Flood

---

### Description

The specified LSP was queued for flooding on the specified interface

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%lspId%: Flood LSP on %ifName% VLAN tag %ovlan%

### Message Parameters

Name	Type
lspId	String
ifName	String
ovlan	uint

## TRILL.LSP.DupSysIdDtect

---

### Description

A duplicate system ID was detected

### Remedy

No action required - Informational message only.

### Severity

Notice

### Message Text

Duplicate System ID %sysId% detected

## Message Parameters

Name	Type
sysId	String

## TRILL.LSP.Trace

---

### Description

Function level debug trace of LSP.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

%logMsg%

## Message Parameters

Name	Type
logMsg	Printf

## TRILL.LSP.InitRfrshEvent

---

### Description

LSP Refresh event was started.

### Remedy

No action required - Informational message only.

### Severity

Debug-Data

## Message Text

LSP Refresh event %threadPtr% seqNum %seqNum% initiated.

## Message Parameters

Name	Type
threadPtr	Ptr
seqNum	uint32

## TRILL.LSP.RfrshTimerStrt

### Description

Link State PDU Refresh timer was started.

### Remedy

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

### Severity

Debug-Verbose

## Message Text

LSP Refresh timer %threadPtr% started.

## Message Parameters

Name	Type
threadPtr	Ptr

## TRILL.LSP.RfrshTimerStop

### Description

Link State PDU Refresh timer was stopped.

### Remedy

No action required - Informational message only.



## Severity

Debug-Verbose

## Message Text

LSP Refresh timer %threadPtr% was stopped.

## Message Parameters

Name	Type
threadPtr	Ptr

## TRILL.LSP.FloodTimerStrt

---

### Description

Link State PDU Refresh timer was started.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

LSP Flood timer %threadPtr% started.

### Message Parameters

Name	Type
threadPtr	Ptr

## TRILL.LSP.FloodTimerStop

---

### Description

Link State PDU Flood timer was stopped.

## Remedy

No action required - Informational message only.

## Severity

Debug-Verbose

## Message Text

LSP Flood timer %threadPtr% was stopped.

## Message Parameters

Name	Type
threadPtr	Ptr

# TRILL.LSP.NicknameInv

## Description

Link State PDU contained an invalid nickname

## Remedy

Verify nickname configuration on peer switch.

## Severity

Warning

## Message Text

Invalid nickname %nickname% in LSP

## Message Parameters

Name	Type
nickname	xInt32

## TRILL.LSP.RemPSNFmExtndRchTLV

### Description

A pseudonode has been left out of the ISIS Extended Reachability TLV in the Link State PDU originating from this node. This may occur if there are more than 2 RBridges discovered on the broadcast link.

### Remedy

It is best for RBridges to have direct links to other RBridges with no intermediate L2 switches. Another option is to partition the TRILL network VLANs through the L2 switch such that at most one RBridge on the link is reachable via the TRILL network VLANs.

### Severity

Warning

### Message Text

Pseudonode `%sysID%.%circuitID%` on port `%ifName%` is not being reported in LSP Extended Reachability TLV.

### Message Parameters

Name	Type
sysID	String
circuitID	uint8
ifName	String

# 299 TRILL.NFSM Messages

---

TRILL.NFSM.LANHoldTimerExp  
TRILL.NFSM.LANRxFirstHello  
TRILL.NFSM.LANRxHello  
TRILL.NFSM.LANIfDown  
TRILL.NFSM.LANAdjUp  
TRILL.NFSM.IgnEvent  
TRILL.NFSM.AdjChg  
TRILL.NFSM.ProcEvent  
TRILL.NFSM.P2PHoldTimerExp  
TRILL.NFSM.P2PCSNPTimerExp  
TRILL.NFSM.P2PIgnEvent  
TRILL.NFSM.NbrNotFound  
TRILL.NFSM.AddNbr  
TRILL.NFSM.DeINbr  
TRILL.NFSM.ProtoChg  
TRILL.NFSM.ChgDesigVLANFail  
TRILL.NFSM.AddNbrMaxExcd  
TRILL.NFSM.Trace  
TRILL.NFSM.LANTimerStrt  
TRILL.NFSM.LANTimerStop  
TRILL.NFSM.P2PTimerStrt  
TRILL.NFSM.P2PTimerStop

## TRILL.NFSM.LANHoldTimerExp

---

### Description

The adjacency with the specified neighbor expired.

### Remedy

No action required. 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

## TRILL.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

No action required - Informational message only.

### Severity

Info

## Message Text

%nbr% (LAN): initial level %level% Hello received

## Message Parameters

Name	Type
nbr	String
level	uint

## TRILL.NFSM.LANRxHello

### Description

A hello packet was received on a broadcast interface from the specified neighbor.

## Remedy

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

%nbr% (LAN): level %level% Hello received

## Message Parameters

Name	Type
nbr	String
level	uint

## TRILL.NFSM.LANIfDown

## Description

An adjacency has gone down as a result of the interface going down.

## Remedy

No action required unless 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

## TRILL.NFSM.LANAdjUp

---

### Description

A broadcast adjacency with the specified neighbor has transitioned to UP. A Designated RBridge will now be elected.

### Remedy

No action required - Informational message only.

### Severity

Info

### Message Text

%nbr% (LAN): level %level% adjacency is UP

### Message Parameters

Name	Type
nbr	String
level	uint

## TRILL.NFSM.IgnEvent

---

### Description

An event occurred that has no bearing on the current state of the adjacency with the specified neighbor.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%nbr% (%ifType%): level %level% event ignored

## Message Parameters

Name	Type
nbr	String
ifType	String
level	uint

## TRILL.NFSM.AdjChg

### Description

An state change occurred for the adjacency with the specified neighbor.

### Remedy

No action required unless this was not planned. If this was not planned, 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% to %newState%

## Message Parameters

Name	Type
nbr	String
ifType	String
level	uint
oldState	String
newState	String

## TRILL.NFSM.ProcEvent

### Description

The specified event occurred for the specified adjacency.



## Remedy

No action required - 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

# TRILL.NFSM.P2PHoldTimerExp

## Description

The adjacency with the specified neighbor expired.

## Remedy

No action required unless this was not planned. 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 because no Hellos received.`

## Message Parameters

Name	Type
nbr	String

## TRILL.NFSM.P2PCSNPTimerExp

### Description

The CSNP timer for the adjacency with the specified neighbor expired. This is used for interfaces with mesh blocking enabled.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%nbr% (P2P): CSNP timer expired

## Message Parameters

Name	Type
nbr	String

## TRILL.NFSM.P2PIgnEvent

### Description

An event occurred that has no bearing on the current state of the adjacency with the specified neighbor.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

## Message Text

%nbr% (P2P): level %level% event ignored

## Message Parameters

Name	Type
nbr	String
level	uint

## TRILL.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

No action required. This could indicate a software bug where we attempted to delete a neighbor that was already deleted. We simply ignore the delete and continue.

### Severity

Warning

### Message Text

Neighbor %nbr% could not be found on port %ifName%

### Message Parameters

Name	Type
nbr	String
ifName	String

## TRILL.NFSM.AddNbr

### Description

A neighbor was added to the neighbor database.

## Remedy

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

%nbr% (%type%): neighbor is added to database.

## Message Parameters

Name	Type
nbr	String
type	String

## TRILL.NFSM.DeINbr

## Description

A neighbor was deleted from the database.

## Remedy

No action required - Informational message only.

## Severity

Debug-Summary

## Message Text

%nbr%: neighbor is deleted from neighbor database.

## Message Parameters

Name	Type
nbr	String

## TRILL.NFSM.ProtoChg

---

### Description

The specified adjacencies has had a change in protocols supported.

### Remedy

No action required. This message can occur during node configuration.

### Severity

Info

### Message Text

%nbr% (%type%): protocols supported changed from %oldProtos% to %newProtos%

### Message Parameters

Name	Type
nbr	String
type	String
oldProtos	String
newProtos	String

## TRILL.NFSM.ChgDesigVLANFail

---

### Description

The Designated RBridge was attempting to use the Desired Designated VLAN, but could not.

### Remedy

No action required unless this was not planned. The Desired Designated VLAN may have been disabled or unconfigured. Enable or configure or configure it before setting that particular VLAN as the Desired Designated VLAN in TRILL.

### Severity

Info

## Message Text

DRB %drb% unable to use Desired Designated VLAN %desiredDesignatedVLAN% No change to Designated VLAN.

## Message Parameters

Name	Type
drb	String
desiredDesignatedVLAN	uint16

## TRILL.NFSM.AddNbrMaxExcd

### Description

Neighbor could not be added because we have already added the maximum number of neighbors.

### Remedy

Remove Rbridge neighbors from network by disconnecting their ports.

### Severity

Warning

## Message Text

Add new neighbor with System ID %sysId% and MAC %srcMac% seen on port %ifName% failed because maximum number of %count% neighbors exceeded.

## Message Parameters

Name	Type
ifName	String
sysId	String
srcMac	srcMAC
count	uint16

---

## TRILL.NFSM.Trace

---

### Description

Function level debug trace of Neighbor state machine.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

%logMsg%

### Message Parameters

Name	Type
logMsg	Printf

---

## TRILL.NFSM.LANTimerStrt

---

### Description

LAN State Machine timer was started.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

LAN State Machine Timer %threadPtr% %interval% sec started.

## Message Parameters

Name	Type
threadPtr	Ptr
interval	uint32

## TRILL.NFSM.LANTimerStop

### Description

LAN State Machine timer was stopped.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

### Message Text

LAN State Machine Timer stopped.

## Message Parameters

Name	Type
threadPtr	Ptr

## TRILL.NFSM.P2PTimerStrt

### Description

Point-to-Point State Machine timer was started.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose



## Message Text

P2P State Machine Timer %threadPtr% %interval% sec started.

## Message Parameters

Name	Type
threadPtr	Ptr
interval	uint32

## TRILL.NFSM.P2PTimerStop

### Description

State Machine timer was stopped.

### Remedy

No action required - Informational message only.

### Severity

Debug-Verbose

## Message Text

P2P State Machine Timer stopped.

## Message Parameters

Name	Type
threadPtr	Ptr

# 300 TRILL.PDU Messages

---

TRILL.PDU.RxProtoInv  
TRILL.PDU.RxProtoUnk  
TRILL.PDU.RxLvlMisMatch  
TRILL.PDU.RxProtoVerInv  
TRILL.PDU.RxVerInv  
TRILL.PDU.RxSysIdInv  
TRILL.PDU.RxMaxAddrMisMatch  
TRILL.PDU.RxTypeUnk  
TRILL.PDU.RxSysIdLenInv  
TRILL.PDU.RxLenInv  
TRILL.PDU.RxTypeInv  
TRILL.PDU.TxFail  
TRILL.PDU.Tx  
TRILL.PDU.Rx  
TRILL.PDU.TxNull  
TRILL.PDU.LANHelloTLV  
TRILL.PDU.P2PHelloTLV  
TRILL.PDU.CSNPTLV  
TRILL.PDU.PSNPTLV  
TRILL.PDU.RxIfUnk  
TRILL.PDU.RxFail

## TRILL.PDU.RxProtoInv

---

### Description

An RBridge is sending TRILL PDUs to the switch using a protocol not supported by this switch. The sender is using the MAC address specified and the PDUs are arriving on the specified VLAN. These packets are being ignored by this switch.

### Remedy

Neighboring TRILL RBridge should not be configured to send PDUs 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

## TRILL.PDU.RxProtoUnk

### Description

An RBridge is sending TRILL PDUs to the switch using a protocol not supported by this switch. The sender is using the MAC address specified and the PDUs are arriving on the specified VLAN. These packets are being ignored by this switch.

### Remedy

Neighboring TRILL Rbridges should not be configured to send PDUs 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

## TRILL.PDU.RxLvIMisMatch

---

### 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

## TRILL.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

## TRILL.PDU.RxVerInv

### Description

A PDU was received from the specified MAC address with an unsupported TRILL 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

## TRILL.PDU.RxSysIdInv

### Description

A TRILL PDU was received from the specified MAC on the specified VLAN using an incorrect system ID length. The PDU was dropped.

## Remedy

An RBridge is sending PDU's with an invalid system ID length. This may indicate a bug in the implementation of TRILL 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

## TRILL.PDU.RxMaxAddrMismatch

### Description

A TRILL 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

## TRILL.PDU.RxTypeUnk

### Description

A TRILL PDU of unknown type was received from the specified MAC on the specified VLAN.

### Remedy

This could indicate use of an extension to the TRILL protocol that is unsupported on this switch. It could also indicate a bug in the source switch's implementation of the TRILL protocol.

### Severity

Notice

### Message Text

Dropping PDU with unknown type %pduType% from %srcMac% (%srcIf%)

### Message Parameters

Name	Type
pduType	String
srcMac	srcMAC
srcIf	VLAN

## TRILL.PDU.RxSysIdLenInv

### Description

A TRILL PDU was received from the specified System ID on the specified VLAN with an invalid length. The PDU was dropped.

## Remedy

The PDU length either exceeds the length of the maximum MTU for this interface, or is smaller than the minimum TRILL 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

## TRILL.PDU.RxLenInv

### Description

A TRILL 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 maximum MTU for this interface, or is smaller than the minimum TRILL 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	String

## TRILL.PDU.RxTypeInv

### Description

A TRILL 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	String

## TRILL.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

## TRILL.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

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

`%pduType% on %egressIF% length %length%`

## Message Parameters

Name	Type
pduType	String
egressIf	VLAN
length	sInt

## TRILL.PDU.Rx

### Description

A PDU of the specified type was received on the specified interface from the specified source MAC.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

%pduType% from %srcMac% on %srcIf%, length %length%

## Message Parameters

Name	Type
pduType	String
srcMac	srcMAC
srcIf	VLAN
length	sInt

## TRILL.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

No action required. - 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

## TRILL.PDU.LANHelloTLV

## Description

This indicates that a TLV entry for a LAN Hello PDU is being processed.

## Remedy

No action required - Informational message only.

## Severity

Debug-Data

## Message Text

TLV Entry: %pType% TLV: %tlvType% length = %length%

## Message Parameters

Name	Type
pType	String
tlvType	String
length	uint

Name	Type
bufp	Buf-ptr
buflen	Buf-len

## TRILL.PDU.P2PHelloTLV

### Description

This indicates that a TLV entry for a P2P Hello PDU is being processed.

### Remedy

No action required - Informational message only.

### 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

## TRILL.PDU.CSNPTLV

### Description

This indicates that a TLV entry for a Complete Sequence Number PDU (CSNP) is being processed.

### Remedy

No action required - Informational message only.

## Severity

Debug-Data

## Message Text

TLV Entry: %pType% TLV: %tlvType% length = %length%

## Message Parameters

Name	Type
pType	String
tlvType	String
length	ulnt
bufp	Buf-ptr
buflen	Buf-len

## TRILL.PDU.PSNPTLV

## Description

This indicates that a TLV entry for a Partial Sequence Number PDU (PSNP) is being processed.

## Remedy

No action required - Informational message only.

## Severity

Debug-Data

## Message Text

TLV Entry: %pType% TLV: %tlvType% length = %length%

## Message Parameters

Name	Type
pType	String
tlvType	String
length	ulnt

Name	Type
bufp	Buf-ptr
buflen	Buf-len

## TRILL.PDU.RxIfUnk

### Description

A packet was received for a vlan instance that the TRILL module does not recognize. The packet was discarded.

### Remedy

No action required - Informational message only.

### Severity

Debug-Summary

### Message Text

Discarding packet for unknown vlan instance %vlanInstance%

### Message Parameters

Name	Type
vlanInstance	xInt32

## TRILL.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

This is a rare occurrence specific to the TRILL module. If this error occurs frequently contact technical support with the error message being shown.

### Severity

Warning

## Message Text

Receive packet operation failed with error: %errmsg%

## Message Parameters

Name	Type
errmsg	String



# 301 UPM Messages

---

## UPM.Init

### 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

# 302 UPM.Msg Messages

---

UPM.Msg.UserAuthenticated  
UPM.Msg.UserUnauthenticated  
UPM.Msg.LLDPDevDetected  
UPM.Msg.LLDPDevRemoved  
UPM.Msg.VlanNotFound  
UPM.Msg.PortNotFound  
UPM.Msg.ProfileNotFoundVsa  
UPM.Msg.EventNotFound  
UPM.Msg.FnParamSyntaxErr  
UPM.Msg.upmNotCfgForEvent  
UPM.Msg.msgRecvHandler  
UPM.Msg.upmMsgExshLaunch  
UPM.Msg.upmMsgExshLaunchStsOk  
UPM.Msg.upmMsgExshLaunchStsFail  
UPM.Msg.portNotCfgUpmEvent  
UPM.Msg.eventQueuedUp  
UPM.Msg.dmlpmlErr  
UPM.Msg.unknownProfileDm  
UPM.Msg.exshLaunchStsFailLoop  
UPM.Msg.eventDroppedAuthNotRun  
UPM.Msg.snmpTrapOnProfileExec  
UPM.Msg.profileMissCfg  
UPM.Msg.upmEventQInfo  
UPM.Msg.upmEventQFull  
UPM.Msg.DscvrIdOnPort  
UPM.Msg.RemIdFrmPort  
UPM.Msg.AssocIdToRole  
UPM.Msg.DisassocIdFmRole  
UPM.Msg.ProfExecDlayForSave

## 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-undetected on the port

### Remedy

This is an 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.dmlpmlErr

---

### 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 execlid %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 message 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 msg)



## 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 %1en% messages. Dropping Messages from Client Applications.

## Message Parameters

Name	Type
len	sInt

## UPM.Msg.DscvrlOnPort

### 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% is associated to role \"%roleName%\"

### Message Parameters

Name	Type
identityName	String
mac	srcMAC
ipaddr	IP
slotPort	SlotPort
roleName	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% is dissociated from role \"%roleName%\"

## Message Parameters

Name	Type
identityName	String
mac	srcMAC
ipaddr	IP
slotPort	SlotPort
roleName	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

# 303 uRPF Messages

## uRPF.DropIngrPkt

### 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

# 304 vlan Messages

---

```
vlan.Init
vlan.CfgIPMTUExcdRcmdIPMTU
vlan.CfgVLANAddPortOK
vlan.CfgVLANDelPortOK
vlan.LAGMinActvLinkAchv
vlan.LAGMinActvLinkNotMntn
vlan.AddIPAddrFail
```

## vlan.Init

---

### Description

Enter optional Description here

### Remedy

Enter optional Remedy here

### Severity

Debug-Summary

### Message Text

Vlan Mgr application started

## vlan.CfgIPMTUExcdRcmdIPMTU

---

### 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

# 305 vlan.ack Messages

---

vlan.ack.msg  
vlan.ack.timing  
vlan.ack.warn  
vlan.ack.pend

## 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

# 306 vlan.dad Messages

---

vlan.dad.DebugSummary  
vlan.dad.RxEvent  
vlan.dad.RxEventFail  
vlan.dad.RxEventIgn  
vlan.dad.IPAddrVal  
vlan.dad.IPAddrDup  
vlan.dad.RxEventInv  
vlan.dad.AllocSockFail  
vlan.dad.SetSockFail  
vlan.dad.BindSockFail  
vlan.dad.GetSockFail  
vlan.dad.SockInv  
vlan.dad.StateChg  
vlan.dad.RunIgn  
vlan.dad.RunStrt  
vlan.dad.SndSockFail  
vlan.dad.CfgSysReq  
vlan.dad.ClrCntSysReq  
vlan.dad.RunSysReq  
vlan.dad.RxEventDscrd  
vlan.dad.IPAddrTnttv  
vlan.dad.RecvKernMsgInv

## 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.IPAddrVal

### Description

DAD completed successfully for the specified IP Address

### Remedy

No action required. Informational message only.

### Severity

Info

### Message Text

%ipa% on interface %intf% is Valid

### Message Parameters

Name	Type
ipa	String
intf	String

## vlan.dad.IPAddrDup

### Description

DAD failed for the specified IP Address. This happens because the address on the neighbor or this box was incorrectly configured.

## Remedy

Correct the IP address configuration for the neighbor and this box. Once corrected, re-run DAD using command: 'run [ip|ipv6] dad {{vr} <vr\_name>} <ipaddress>' to make the IP Address valid again

## Severity

Error

## Message Text

%ipa% on interface %intf% is Duplicate. Neighbor %mac% has the same IP Address

## Message Parameters

Name	Type
ipa	String
intf	String
mac	srcMAC

## vlan.dad.RxEventInv

### Description

This is typically seen when receiving IPAddress state notifications and DAD is disabled. It is an unexpected but benign event as DAD is disabled

### Remedy

No action required. Informational message only.

### Severity

Warning

### Message Text

DAD Instance for %ipa%, interface %intf%, in state %state% ignored invalid event %event%

### Message Parameters

Name	Type
ipa	String
intf	String

Name	Type
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: %errmsg%

## Message Parameters

Name	Type
option	String
errmsg	String

## vlan.dad.BindSockFail

### Description

DAD module failed bind operation 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 bind socket error: %errmsg%

## Message Parameters

Name	Type
errmsg	String

---

## vlan.dad.GetSockFail

---

### Description

DAD module failed to get 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 get socket %option% error: %errormsg%

### Message Parameters

Name	Type
option	String
errormsg	String

---

## vlan.dad.SockInv

---

### Description

DAD module has bound to a wrong 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

Socket Invalid error: %errormsg%

## Message Parameters

Name	Type
errormsg	String

## vlan.dad.StateChg

---

### Description

The various possible states for a DAD Instance are: - Tentative - 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.RunIgn

---

### Description

The specified command will be ignored if one of the following conditions are true: - The interface is down - 'run dad' command was already issued and DAD is not complete - Interface has loopback mode enabled - DAD is configured to be OFF - Interface belongs to Virtual Router "VR-Mgmt"

## Remedy

No action required. Informational message only.

## Severity

Info

## Message Text

Ignored 'run dad' command for %ipa%, interface %intf%: %reason%

## Message Parameters

Name	Type
ipa	String
intf	String
reason	String

## vlan.dad.RunStrt

### Description

The specified command will be ignored if one of the following conditions are true: - Interface is Administratively disabled - Interface has loopback mode enabled - DAD is configured to be OFF

### Remedy

No action required. Informational message only.

### Severity

Info

### Message Text

Running DAD for %ipa%, interface %intf% 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.CfgSysReq

### Description

A request was made to the system for specified action

### Remedy

No action required. Informational message only.



## Severity

Debug-Summary

## Message Text

Issued Configure DAD request to System: Virtual Router %vrname%, Address Family: %af%, DAD status: %status%, DAD max solicitations: %solicits%

## Message Parameters

Name	Type
vrname	String
af	String
status	uint32
solicits	uint32

## 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.RunSysReq

---

### Description

A request was made to the system for specified action

### Remedy

No action required. Informational message only.

### Severity

Debug-Summary

### Message Text

Issued DAD Run request to System: Virtual Router %vrname%, Address Family: %af%, interface %intf%, IP Address: %ipa%

### Message Parameters

Name	Type
vrname	String
af	String
intf	String
ipa	String

## vlan.dad.RxEventDscrd

---

### Description

When running the DAD FSM the specified event was discarded per the DAD FSM specifications.

### Remedy

No action required. Notification message only.

### Severity

Notice

## Message Text

DAD Instance for %ipa%, interface %intf%, in state %state% discarded event %event%. Reason: %reason%

## Message Parameters

Name	Type
ipa	String
intf	String
state	String
event	String
reason	String

## vlan.dad.IPAddrTnttv

### Description

State of the specified IP Address has become Tentative 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.RecvKernMsgInv

### Description

VLAN Mgr received a netlink message which had an error and could not be handled. The actual log will contain details about the specific error and any related error codes.

### Remedy

The messages that will not be handled could be related to the state of IP addresses. The "show [ip|ipv6] dad" commands can be used to look for IP addresses that are in the wrong state. Any IP addresses in the wrong state could be unconfigured and re-configured. If no suspect IP addresses are found, or the logs continue, technical assistance will be required. Information from the "show tech vlan detail" command should be provided to the technical support specialist.

### Severity

Error

### Message Text

Error Receiving Netlink Message: %err% (%code%)

### Message Parameters

Name	Type
err	String
code	sInt32

# 307 `vlan.dbg` Messages

---

`vlan.dbg.fnExit`  
`vlan.dbg.fnEntry`  
`vlan.dbg.debugInfo`  
`vlan.dbg.info`  
`vlan.dbg.setVpifState`

## `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



# 308 vlan.err Messages

vlan.err.memFail  
vlan.err.fileIOCTL  
vlan.err.criticalInfo  
vlan.err.dupV6Addr

## 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%

### 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

# 309 vlan.mac Messages

---

```
vlan.mac.clientVlanRequest
vlan.mac.noGlobalEntry
vlan.mac.noAvailEntry
vlan.mac.sysErr
vlan.mac.dynMem
vlan.mac.entryInv
vlan.mac.refCntInv
vlan.mac.refCntInc
vlan.mac.refCntDec
vlan.mac.internalError
vlan.mac.clientPortRequest
vlan.mac.remGlobalEntry
vlan.mac.addGlobalEntry
vlan.mac.existInVlan
vlan.mac.existOnPort
vlan.mac.serverMsgRecv
vlan.mac.macInUseOnPort
vlan.mac.apiMisuse
vlan.mac.flush
vlan.mac.gMacArrayDump
```

## 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%. vpiif\_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
protold	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



# 310 vlan.msgs Messages

vlan.msgs.msgTx  
vlan.msgs.msgRx  
vlan.msgs.createVlan  
vlan.msgs.removeVlan  
vlan.msgs.renameVlan  
vlan.msgs.getNoPorts  
vlan.msgs.addPortsVlan  
vlan.msgs.remPortsVlan  
vlan.msgs.cfgVlanTag  
vlan.msgs.vrRemove  
vlan.msgs.createVr  
vlan.msgs.cfgVrVlan  
vlan.msgs.cfgVrIpStatus  
vlan.msgs.cfgIpStatusAll  
vlan.msgs.rxMsg  
vlan.msgs.cfgIPVlan  
vlan.msgs.cfgEnbLs  
vlan.msgs.cfgDisLs  
vlan.msgs.cfgLoopback  
vlan.msgs.cfgVlanProto  
vlan.msgs.cfgPortState  
vlan.msgs.cfgVlanState  
vlan.msgs.addIpVlan  
vlan.msgs.getStpInfo  
vlan.msgs.portLinkState  
vlan.msgs.portLinkStateUp  
vlan.msgs.portLinkStateDown  
vlan.msgs.clientNoAck  
vlan.msgs.PortAlarmState  
vlan.msgs.RstrctTrnscvr  
vlan.msgs.FldRateOutActLogEvent  
vlan.msgs.FldRateOutActDsblPort

## 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%, vrlId: %vrId%.

## Message Parameters

Name	Type
name	String
vrlId	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



## 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

## 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.PortAlarmState

### Description

Listed below the descriptions of the TDM alarms that can be detected/transmitted on the port. LOF: This condition occurs on the framed TDM port when the local end of the TDM port is in Loss of Frame state. The mismatch in the transmitted framing format in the local end and the configured framing format in the remote end results in the Loss of Frame state in the local end of the TDM port. TxRAI: This condition occurs on the framed TDM port due to either of the two cases. One, when there is a mismatch in the configured and received framing format. In this case, the transmission of remote alarm indication is triggered by the Loss of Frame state in the local end of the TDM port. Secondly, in the presence of CES pseudo-wires on the TDM port, when the remote end of the CES pseudo-wire sends an RDI (Remote defect indicator) signal, RAI is transmitted on the TDM port. RxRAI: This condition occurs on the framed TDM port due to either of the two cases. One, the Loss of Frame state in the remote end of the TDM port. Secondly, the application associated with the remote end of the TDM port tunnels the alarm indication to the local end. The mismatch in the transmitted framing format in the local end and the configured framing format in the remote end results in the Loss of Frame state in the remote end of the TDM port. TxAIS: This condition occurs on the unframed TDM port due to either of the two cases. One, the AIS is transmitted on the TDM port by default in the absence of loopback or CES pseudo-wire configuration. Secondly, in the presence of CES pseudo-wires on the TDM port, the AIS is transmitted to indicate the remote end pseudo-wire faults, namely, local end loss of packet state and remote end attachment circuit fault. RxAIS: This condition occurs on the framed TDM port when the remote end of the TDM port transmits an AIS alarm indication.

### Remedy

Listed below the suggestions that can be tried when the TDM alarm is detected/transmitted on the port. LOF: The framing configuration in the local and remote end of the TDM port needs to be reviewed. If no configuration deviations are observed, the fault due to unstable clock can be isolated by performing loopback tests on the local and/or remote end of the TDM port. TxRAI: If there are CES pseudo-wires defined on the port, the pseudo-wire remote fault can be referred to. In the presence of attachment circuit Tx fault, no action is required. If there are no CES pseudo-wires defined, the framing configuration on the TDM port needs to be reviewed. Additionally, if no configuration deviations are observed, the fault due to unstable clock can be isolated by performing loopback tests on the local and/or remote end of the TDM port. This condition, if occurs on the unframed TDM port, can be cleared by administratively disabling and enabling the TDM port. The following framing configuration in local/remote would cause RAI to be generated from the local end: Local (DUT) Remote  
 ----- E1: Basic Unframed Multiframe Unframed / Basic CRC4

enabled CRC4 disabled T1: SuperFrame (SF) Unframed / ESF Extended SuperFrame (ESF) Unframed / SF RxRAI: If this condition occurs due to the Loss of Frame state in the remote end of the TDM port, the framing configuration on the TDM port needs to be reviewed. Additionally, if no configuration deviations are observed, the fault due to unstable clock can be isolated by performing loopback tests on the local and/or remote end of the TDM port. If this condition occurs due to the application associated with the remote end of the TDM port, no action to be taken. This condition, if occurs on the unframed TDM port, can be cleared by administratively disabling and enabling the TDM port. TxAIS: If no CES pseudo-wire is configured on the TDM port, no action is required. If CES pseudo-wires are configured on the TDM port, the pseudo-wire fault information should be referred to for the remote end fault indication. This condition, if occurs on a framed TDM port or occurs on an unframed TDM port with no remote end fault indication in the CES pseudo-wire, can be cleared by administratively disabling and enabling the TDM port. RxAIS: This condition requires no action to be performed. If CES pseudo-wires are present on the TDM port, this condition is signalled as local attachment circuitRx fault.

## Severity

Notice

## Message Text

Port %port% %alarmState% %alarmAction%

## Message Parameters

Name	Type
port	String
alarmState	String
alarmAction	String

## 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

# 311 VMT Messages

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VMT.DissocVMDynVLAN
VMT.VMVLANTagMsmtch
VMT.VMVRMsmtch
VMT.ChgVRAuthVMFail
VMT.VSMTrace
```

## 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.DeIMAC

---

### 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
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.RecvACLCIbk

---

### 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.DeNameVPPDBFail

### 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.DeIMACNotAuth

### 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.UnInstIDynCntOK

### 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.EnbIDynVLANTrace

---

### 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.DsbIDynVLANTrace

## 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.VMVRMsmatch

### 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

# 312 VRRP Messages

---

VRRP.CfgInv  
VRRP.Enter  
VRRP.Trace  
VRRP.UnkIndx  
VRRP.TraceData  
VRRP.ExtCfgChng  
VRRP.DelVIPFail  
VRRP.UnkVR  
VRRP.InvVRState  
VRRP.SanityFail  
VRRP.AddMACFail  
VRRP.VirtualMacAdded  
VRRP.VirtualMacDeleted  
VRRP.StateChng  
VRRP.MasterNotHeard  
VRRP.TimerMisfired  
VRRP.RxAdvertCheckpoint  
VRRP.TxAdvertCheckpoint  
VRRP.TxPingTrackCheckpoint  
VRRP.RxPingTrackCheckpoint  
VRRP.Shutdown  
VRRP.RxCheckpointError  
VRRP.RxCheckpointDebug  
VRRP.TxCheckpointDebug  
VRRP.TrackConditionFailed  
VRRP.StrtPreemptTimer  
VRRP.PreemptTimerExp

## 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.UnkIdx

### 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.DeIVIPFail

### 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 occurred.

### 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 advertisement 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

Name	Type
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 message. 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 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

# 313 VRRP.Advert Messages

VRRP.Advert.Ign  
VRRP.Advert.Trace  
VRRP.Advert.Rcv  
VRRP.Advert.Send  
VRRP.Advert.Accept

## 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 advertisement 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

# 314 VRRP.System Messages

VRRP.System.AllocMemFail  
VRRP.System.VlanNameNotFound  
VRRP.System.VlanInstNotFound  
VRRP.System.SubSysInitFail  
VRRP.System.NoIPAddr  
VRRP.System.VLANDBInv  
VRRP.System.VLANRegFail  
VRRP.System.VLANUnregFail  
VRRP.System.ESRPCConflict  
VRRP.System.SyscallFail  
VRRP.System.CallbackFail  
VRRP.System.LibCallFail

## 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 mutually 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

# 315 VSM Messages

VSM.ParmNull  
VSM.ParmInv  
VSM.AllocMemFail  
VSM.AllocHCMsgFail  
VSM.AllocCkptMsgFail  
VSM.AllocMSMCkptMsgFail  
VSM.AllocSockFail  
VSM.SetSockFail  
VSM.BndSockFail  
VSM.RxCkptPktVerInv  
VSM.RxHCPktVerInv  
VSM.RxCkptPktInv  
VSM.RxHCPktInv  
VSM.InitSrvrFail  
VSM.TxCkptSockFail  
VSM.RxCkptSockFail  
VSM.TxHCSockFail  
VSM.RxHCSockFail  
VSM.FndISClfFail  
VSM.FndMLAGPortFail  
VSM.RmtMLAGPeerDown  
VSM.RmtMLAGPortDown  
VSM.LocMLAGPortDown  
VSM.RmtMLAGPeerUp  
VSM.RmtMLAGPortUp  
VSM.LocMLAGPortUp  
VSM.RxHCPkt  
VSM.RxHCPktDump  
VSM.RxCkptPkt  
VSM.RxCkptPktDump  
VSM.TxHCPkt  
VSM.TxHCPktDump  
VSM.TxCkptPkt  
VSM.TxCkptPktDump  
VSM.BlkMLAGTrace  
VSM.RedirMLAGTrace  
VSM.RxCkptTrace

VSM.TxCkptTrace  
 VSM.ConnCkptTrace  
 VSM.RxHCTrace  
 VSM.TxHCTrace  
 VSM.TxSrvrTrace  
 VSM.RxSrvrTrace  
 VSM.InitSrvrDone  
 VSM.MSMCkptTrace  
 VSM.FastCnvrgrCtrlMLAGFail

## 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
errmsg	String
err	slnt32

## 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	slnt32

## 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 messages 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	slnt32

## 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
errmsg	String

## VSM.RxHCSockFail

### Description

Receive of a health-check message has failed. Failing to receive 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: %errmsg%

### Message Parameters

Name	Type
errmsg	String

## VSM.FndISCIIfFail

### 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 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

Info

### 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

Info

## 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
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
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

Name	Type
pktBuf	Buf-ptr
bufLen	Buf-len

## VSM.BIkMLAGTrace

### 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.FastCnvrCtrlMLAGFail

## 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



# A Glossary

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## A

### AAA

Authentication, authorization, and accounting. A system in IP-based networking to control which computer resources specific users can access and to keep track of the activity of specific users over the network.

### ABR

Area border router. In [OSPF](#), an ABR has interfaces in multiple areas, and it is responsible for exchanging summary advertisements with other ABRs.

## ACL

Access Control List. A mechanism for filtering packets at the hardware level. Packets can be classified by characteristics such as the source or destination MAC, IP addresses, IP type, or QoS queue. Once classified, the packets can be forwarded, counted, queued, or dropped.

## ACMI

Asynchronous Chassis Management Interface.

## ad-hoc mode

An 802.11 networking framework in which devices or stations communicate directly with each other, without the use of an access point (AP).

## AES

Advanced Encryption Standard. AES is an algorithm for encryption that works at multiple network layers simultaneously. As a block cipher, AES encrypts data in fixed-size blocks of 128 bits; AES is also a privacy transform for IPSec and Internet Key Exchange (IKE). Created by the National Institute of Standards and Technology (NIST), the standard has a variable key length—it can specify a 128-bit key (the default), a 192-bit key, or a 256-bit key.

For the WPA2/802.11i implementation of AES, a 128-bit key length is used. AES encryption includes four stages that make up one round. Each round is then iterated 10, 12, or 14 times depending upon the bit-key size. For the WPA2/802.11i implementation of AES, each round is iterated 10 times.

## AES-CCMP

Advanced Encryption Standard - Counter-Mode/CBC-MAC Protocol. CCM is a new mode of operation for a block cipher that enables a single key to be used for both encryption and authentication. The two underlying modes employed in CCM include Counter mode (CTR) that achieves data encryption and Cipher Block Chaining Message Authentication Code (CBC-MAC) to provide data integrity.

## alternate port

In **RSTP**, the alternate port supplies an alternate path to the root bridge and the root port.

## AP (access point)

In wireless technology, access points are LAN transceivers or "base stations" that can connect to the regular wired network and forward and receive the radio signals that transmit wireless data.

## area

In **OSPF**, an area is a logical set of segments connected by routers. The topology within an area is hidden from the rest of the **autonomous system (AS)**.

## ARP

Address Resolution Protocol. ARP is part of the TCP/IP suite used to dynamically associate a device's physical address (MAC address) with its logical address (IP address). The system broadcasts an ARP request, containing the IP address, and the device with that IP address sends back its MAC address so that traffic can be transmitted.

## AS

Autonomous system. In [OSPF](#), an AS is a connected segment of a network topology that consists of a collection of subnetworks (with hosts attached) interconnected by a set of routes. The subnetworks and the routers are expected to be under the control of a single administration. Within an AS, routers may use one or more interior routing protocols and sometimes several sets of metrics. An AS is expected to present to other autonomous systems an appearance of a coherent interior routing plan and a consistent picture of the destinations reachable through the AS. An AS is identified by a unique 16-bit number.

## ASBR

Autonomous system border router. In [OSPF](#), an ASBR acts as a gateway between OSPF and other routing protocols or other autonomous systems.

## association

A connection between a wireless device and an access point.

## asynchronous

See [ATM](#).

## ATM

Asynchronous transmission mode. A start/stop transmission in which each character is preceded by a start signal and followed by one or more stop signals. A variable time interval can exist between characters. ATM is the preferred technology for the transfer of images.

## autobind

In [STP](#), autobind (when enabled) automatically adds or removes ports from the STPD. If ports are added to the carrier VLAN, the member ports of the VLAN are automatically added to the STPD. If ports are removed from the carrier VLAN, those ports are also removed from the STPD.

## autonegotiation

As set forth in IEEE 802.3u, autonegotiation allows each port on the switch—in partnership with its link partner—to select the highest speed between 10 Mbps and 100 Mbps and the best duplex mode.

## B

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### backbone area

In **OSPF**, a network that has more than one area must have a backbone area, configured as 0.0.0.0. All areas in an autonomous system (AS) must connect to the backbone area.

### backup port

In **RSTP**, the backup port supports the designated port on the same attached LAN segment. Backup ports exist only when the bridge is connected as a self-loop or to a shared media segment.

### backup router

In **VRRP**, the backup router is any VRRP router in the VRRP virtual router that is not elected as the master. The backup router is available to assume forwarding responsibility if the master becomes unavailable.

## BDR

Backup designated router. In OSPF, the system elects a designated router (DR) and a BDR. The BDR smooths the transition to the DR, and each multi-access network has a BDR. The BDR is adjacent to all routers on the network and becomes the DR when the previous DR fails. The period of disruption in transit traffic lasts only as long as it takes to flood the new LSAs (which announce the new DR). The BDR is elected by the protocol; each hello packet has a field that specifies the BDR for the network.

## BGP

Border Gateway Protocol. BGP is a router protocol in the IP suite designed to exchange network reachability information with BGP systems in other autonomous systems. You use a fully meshed configuration with BGP.

BGP provides routing updates that include a network number, a list of ASs that the routing information passed through, and a list of other path attributes. BGP works with cost metrics to choose the best available path; it sends updated router information only when one host has detected a change, and only the affected part of the routing table is sent.

BGP communicates within one AS using Interior BGP (IBGP) because BGP does not work well with IGP. Thus the routers inside the AS maintain two routing tables: one for the IGP and one for IBGP. BGP uses exterior BGP (EBGP) between different autonomous systems.

### bi-directional rate shaping

A hardware-based technology that allows you to manage bandwidth on Layer 2 and Layer 3 traffic flowing to each port on the switch and to the backplane, per physical port on the I/O module. The parameters differ across platforms and modules.

## blackhole

In the Extreme Networks implementation, you can configure the switch so that traffic is silently dropped. Although this traffic appears as received, it does not appear as transmitted (because it is dropped).

## BOOTP

Bootstrap Protocol. BOOTP is an Internet protocol used by a diskless workstation to discover its own IP address, the IP address of a BOOTP server on the network, and a file that can be loaded into memory to boot the machine. Using BOOTP, a workstation can boot without a hard or floppy disk drive.

## BPDU

Bridge protocol data unit. In **STP**, a BPDU is a packet that initiates communication between devices. BPDU packets contain information on ports, addresses, priorities, and costs and they ensure that the data ends up where it was intended to go. BPDU messages are exchanged across bridges to detect loops in a network topology. The loops are then removed by shutting down selected bridge interfaces and placing redundant switch ports in a backup, or blocked, state.

## bridge

In conventional networking terms, bridging is a Layer 2 function that passes frames between two network segments; these segments have a common network layer address. The bridged frames pass only to those segments connected at a Layer 2 level, which is called a broadcast domain (or VLAN). You must use Layer 3 routing to pass frames between broadcast domains (VLANs).

In wireless technology, bridging refers to forwarding and receiving data between radio interfaces on APs or between clients on the same radio. So, bridged traffic can be forwarded from one AP to another AP without having to pass through the switch on the wired network.

## broadcast

A broadcast message is forwarded to all devices within a VLAN, which is also known as a broadcast domain. The broadcast domain, or VLAN, exists at a Layer 2 level; you must use Layer 3 routing to communicate between broadcast domains, or VLANs. Thus, broadcast messages do not leave the VLAN. Broadcast messages are identified by a broadcast address.

## BSS

Basic Service Set. A wireless topology consisting of one access point connected to a wired network and a set of wireless devices. Also called an infrastructure network. See also IBSS.

## C

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## captive portal

A browser-based authentication mechanism that forces unauthenticated users to a web page.

## carrier VLAN

In **STP**, carrier VLANs define the scope of the STPD, including the physical and logical ports that belong to the STPD as well as the 802.1Q tags used to transport EMISTP- or PVST+-encapsulated BPDUs. Only one carrier VLAN can exist in any given STPD.

## CCM

In **CFM**, connectivity check messages are CFM frames transmitted periodically by a MEP to ensure connectivity across the maintenance entities to which the transmitting MEP belongs. The CCM messages contain a unique ID for the specified domain. Because a failure to receive a CCM indicates a connectivity fault in the network, CCMs proactively check for network connectivity.

## CDR

Call Data (Detail) Record

. In Internet telephony, a call detail record is a data record that contains information related to a telephone call, such as the origination and destination addresses of the call, the time the call started and ended, the duration of the call, the time of day the call was made and any toll charges that were added through the network or charges for operator services, among other details of the call.

In essence, call accounting is a database application that processes call data from your switch (PBX, iPBX, or key system) via a CDR (call detail record) or SMDR (station message detail record) port. The call data record details your system's incoming and outgoing calls by thresholds, including time of call, duration of call, dialing extension, and number dialed. Call data is stored in a PC database.

## CEP

Customer Edge Port. Also known as Selective Q-in-Q or C-tagged Service Interface. CEP is a role that is configured in software as a CEP VMAN port, and connects a VMAN to specific CVLANs based on the CVLAN CVID. The CNP role, which is configured as an untagged VMAN port, connects a VMAN to all other port traffic that is not already mapped to the port CEP role.

## CA certificate

A certificate identifying a certificate authority. A CA certificate can be used to verify that a certificate issued by the certificate authority is legitimate.

## certificate

A document that identifies a server or a client (user), containing a public key and signed by a certificate authority.

## Certificate Authority (CA)

A trusted third-party that generates and signs certificates. A CA may be a commercial concern, such as GoDaddy or GeoTrust. A CA may also be an in-house server for certificates used within an enterprise.

## certificate chain

An ordered set of certificates which can be used to verify the identity of a server or client. It begins with a client or server certificate, and ends with a certificate that is trusted.

## certificate issuer

The certificate authority that generated the certificate.

## Certificate Signing Request (CSR)

A document containing identifiers, options, and a public key, that is sent to a certificate authority in order to generate a certificate.

## certificate subject

The server or client identified by the certificate.

## client certificate

A certificate identifying a client (user). A client certificate can be used in conjunction with, or in lieu of, a username and password to authenticate a client.

## CFM

Connectivity Fault Management allows an ISP to proactively detect faults in the network for each customer service instance individually and separately. CFM comprises capabilities for detecting, verifying, and isolating connectivity failures in virtual bridged LANs.

## Chalet

A web-based user interface for setting up and viewing information about a switch, removing the need to enter common commands individually in the CLI.

## CHAP

Challenge-Handshake Authentication Protocol. One of the two main authentication protocols used to verify a user's name and password for PPP Internet connections. CHAP is more secure than because it performs a three-way handshake during the initial link establishment between the home and remote machines. It can also repeat the authentication anytime after the link has been established.

## checkpointing

Checkpointing is the process of copying the active state configurations from the primary **MSM** to the backup MSM on modular switches.

## CIDR

Classless Inter-Domain Routing. CIDR is a way to allocate and specify the Internet addresses used in interdomain routing more flexibly than with the original system of IP address classes. This address aggregation scheme uses supernet addresses to represent multiple IP destinations. Rather than advertise a separate route for each destination, a router uses a supernet address to advertise a single route representing all destinations. **RIP** does not support CIDR; **BGP** and **OSPF** support CIDR.

## CIST

Common and Internal Spanning Tree. In an **MSTP** environment, the CIST is a single spanning tree domain that connects MSTP regions. The CIST is responsible for creating a loop-free topology by exchanging and propagating BPDUs across MSTP regions. You can configure only one CIST on each switch.

### CIST regional root bridge

Within an **MSTP** region, the bridge with the lowest path cost to the CIST root bridge is the CIST regional root bridge. If the CIST root bridge is inside an MSTP region, that same bridge is the CIST regional root for that region because it has the lowest path cost to the CIST root. If the CIST root bridge is outside an MSTP region, all regions connect to the CIST root through their respective CIST regional roots.

### CIST root bridge

In an **MSTP** environment, the bridge with the lowest bridge ID becomes the CIST root bridge. The bridge ID includes the bridge priority and the MAC address. The CIST root bridge can be either inside or outside an MSTP region. The CIST root bridge is unique for all regions and non-MSTP bridges, regardless of its location.

### CIST root port

In an **MSTP** environment, the port on the CIST regional root bridge that connects to the CIST root bridge is the CIST root port. The CIST root port is the master port for all MSTIs in that MSTP region, and it is the only port that connects the entire region to the CIST root bridge.

## CLEAR-flow

CLEAR-Flow allows you to specify certain types of traffic to perform configured actions on. You can configure the switch to take an immediate, preconfigured action to the specified traffic or to send a copy of the traffic to a management station for analysis. CLEAR-Flow is an extension to **ACLs**, so you must be familiar with ACL policy files to apply CLEAR-Flow.

## CLI

Command Line Interface. You can use the CLI to monitor and manage the switch or wireless appliance.



## cluster

In **BGP**, a cluster is formed within an **AS** by a route reflector and its client routers.

## collision

Two Ethernet packets attempting to use the medium simultaneously. Ethernet is a shared media, so there are rules for sending packets of data to avoid conflicts and protect data integrity. When two nodes at different locations attempt to send data at the same time, a collision will result. Segmenting the network with bridges or switches is one way of reducing collisions in an overcrowded network.

## CNA

Converged Network Analyzer. This application suite, available from Avaya, allows the server to determine the best possible network path. The CNA Agent is a software piece of the entire CNA application that you install on Extreme Networks devices. You use the CNA Agent software only if you are using the Avaya CNA solution, and the CNA Agent cannot function unless you also obtain the rest of the CNA application from Avaya.

## CNP

Customer Network Port.

## combo port

Also known as a *combination port*. On some Extreme Networks devices (such as the X440-G2 series switch), certain ports can be used as either copper or fibre ports.

## combo link

In **EAPS**, the common link is the physical link between the controller and partner nodes in a network where multiple EAPS share a common link between domains.

## control VLAN

In **EAPS**, the control VLAN is a VLAN that sends and receives EAPS messages. You must configure one control VLAN for each EAPS domain.

## controller node

In **EAPS**, the controller node is that end of the common line that is responsible for blocking ports if the common link fails, thereby preventing a superloop.

## CoS

Class of Service. Specifying the service level for the classified traffic type. For more information, see QoS in the *ExtremeXOS 21.1 User Guide*.

## CRC

Cyclic Redundancy Check. This simple checksum is designed to detect transmission errors. A decoder calculates the CRC for the received data and compares it to the CRC that the encoder calculated, which is appended to the data. A mismatch indicates that the data was corrupted in transit.

## CRC error

Cyclic redundancy check error. This is an error condition in which the data failed a checksum test used to trap transmission errors. These errors can indicate problems anywhere in the transmission path.

## CSPF

Constrained shortest path first. An algorithm based on the shortest path first algorithm used in [OSPF](#), but with the addition of multiple constraints arising from the network, the LSP, and the links. CSPF is used to minimize network congestion by intelligently balancing traffic.

## CVID

CVLAN ID. The CVID represents the CVLAN tag for tagged VLAN traffic. (See [CVLAN](#).)

## CVLAN

Customer VLAN.

## D

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## DAD

Duplicate Address Detection. IPv6 automatically uses this process to ensure that no duplicate IP addresses exist. For more information, see Duplicate Address Detection in the [ExtremeXOS 21.1 User Guide](#).

## dBm

An abbreviation for the power ratio in decibels (dB) of the measured power referenced to one milliwatt.

## DCB

Data Center Bridging is a set of IEEE 802.1Q extensions to standard Ethernet, that provide an operational framework for unifying Local Area Networks (LAN), Storage Area Networks (SAN) and Inter-Process Communication (IPC) traffic between switches and endpoints onto a single transport layer.

## DCBX

The Data Center Bridging eXchange protocol is used by DCB devices to exchange DCB configuration information with directly connected peers.

## default encapsulation mode

In **STP**, default encapsulation allows you to specify the type of BPDU encapsulation to use for all ports added to a given STPD, not just to one individual port. The encapsulation modes are:

- 802.1d—This mode is used for backward compatibility with previous STP versions and for compatibility with third-party switches using IEEE standard 802.1d.
- EMISTP—Extreme Multiple Instance Spanning Tree Protocol (EMISTP) mode is an extension of STP that allows a physical port to belong to multiple STPDs by assigning the port to multiple VLANs.
- PVST+—This mode implements PVST+ in compatibility with third-party switches running this version of STP.

## designated port

In **STP**, the designated port provides the shortest path connection to the root bridge for the attached LAN segment. Each LAN segment has only one designated port.

## destination address

The IP or MAC address of the device that is to receive the packet.

## Device Manager

The Device Manager is an Extreme Networks-proprietary process that runs on every node and is responsible for monitoring and controlling all of the devices in the system. The Device Manager is useful for system redundancy.

## device server

A specialized, network-based hardware device designed to perform a single or specialized set of server functions. Print servers, terminal servers, remote access servers, and network time servers are examples of device servers.

## DF

Don't fragment bit. This is the don't fragment bit carried in the flags field of the IP header that indicates that the packet should not be fragmented. The remote host will return ICMP notifications if the packet had to be split anyway, and these are used in **MTU** discovery.

## DHCP

Dynamic Host Configuration Protocol. DHCP allows network administrators to centrally manage and automate the assignment of IP addresses on the corporate network. DHCP sends a new IP address

when a computer is plugged into a different place in the network. The protocol supports static or dynamic IP addresses and can dynamically reconfigure networks in which there are more computers than there are available IP addresses.

## DiffServ

Differentiated Services. Defined in RFC 2474 and 2475, DiffServ is an architecture for implementing scalable service differentiation in the Internet. Each IP header has a DiffServ (DS) field, formerly known as the Type of Service (TOS) field. The value in this field defines the QoS priority the packet will have throughout the network by dictating the forwarding treatment given to the packet at each node.

DiffServ is a flexible architecture that allows for either end-to-end QoS or intra-domain QoS by implementing complex classification and mapping functions at the network boundary or access points. In the Extreme Networks implementation, you can configure the desired QoS by replacing or mapping the values in the DS field to egress queues that are assigned varying priorities and bandwidths.

## directory agent (DA)

A method of organizing and locating the resources (such as printers, disk drives, databases, e-mail directories, and schedulers) in a network. Using SLP, networking applications can discover the existence, location and configuration of networked devices. With Service Location Protocol, client applications are 'User Agents' and services are advertised by 'Service Agents'.

The User Agent issues a multicast 'Service Request' (SrvRqst) on behalf of the client application, specifying the services required. The User Agent will receive a Service Reply (SrvRply) specifying the location of all services in the network which satisfy the request.

For larger networks, a third entity, called a 'Directory Agent', receives registrations from all available Service Agents. A User Agent sends a unicast request for services to a Directory Agent (if there is one) rather than to a Service Agent.

(SLP version 2, RFC 2608, updating RFC 2165)

## diversity antenna and receiver

The AP has two antennae. Receive diversity refers to the ability of the AP to provide better service to a device by receiving from the user on which ever of the two antennae is receiving the cleanest signal.

Transmit diversity refers to the ability of the AP to use its two antenna to transmit on a specific antenna only, or on a alternate antennae. The antennae are called diversity antennae because of this capability of the pair.

## DNS

Domain Name Server. This system is used to translate domain names to IP addresses. Although the Internet is based on IP addresses, names are easier to remember and work with. All these names must be translated back to the actual IP address and the DNS servers do so.

## domain

In **CFM**, a maintenance domain is the network, or part of the network, that belongs to a single administration for which connectivity faults are managed.

## DoS attack

Denial of Service attacks occur when a critical network or computing resource is overwhelmed so that legitimate requests for service cannot succeed. In its simplest form, a DoS attack is indistinguishable from normal heavy traffic. ExtremeXOS software has configurable parameters that allow you to defeat DoS attacks. For more information, see DoS Protection in the *ExtremeXOS 21.1 User Guide*.

## DR

Designated router. In **OSPF**, the DR generates an LSA for the multi-access network and has other special responsibilities in the running of the protocol. The DR is elected by the OSPF protocol.

## DSSS

Direct-Sequence Spread Spectrum. A transmission technology used in Local Area Wireless Network (LAWN) transmissions where a data signal at the sending station is combined with a higher data rate bit sequence, or chipping code, that divides the user data according to a spreading ratio. The chipping code is a redundant bit pattern for each bit that is transmitted, which increases the signal's resistance to interference. If one or more bits in the pattern are damaged during transmission, the original data can be recovered due to the redundancy of the transmission. (Compare with **FHSS**.)

## DTIM

DTIM delivery traffic indication message (in 802.11 standard).

## dynamic WEP

The IEEE introduced the concept of user-based authentication using per-user encryption keys to solve the scalability issues that surrounded static WEP. This resulted in the 802.1x standard, which makes use of the IETF's Extensible Authentication Protocol (EAP), which was originally designed for user authentication in dial-up networks. The 802.1x standard supplemented the EAP protocol with a mechanism to send an encryption key to a Wireless AP. These encryption keys are used as dynamic WEP keys, allowing traffic to each individual user to be encrypted using a separate key.

## E

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## EAPS

Extreme Automatic Protection Switching. This is an Extreme Networks-proprietary version of the Ethernet Automatic Protection Switching protocol that prevents looping Layer 2 of the network. This feature is discussed in RFC 3619.

## EAPS domain

An EAPS domain consists of a series of switches, or nodes, that comprise a single ring in a network. An EAPS domain consists of a master node and transit nodes. The master node consists of one primary and one secondary port. EAPS operates by declaring an EAPS domain on a single ring.

## EAPS link ID

Each common link in the EAPS network must have a unique link ID. The controller and partner shared ports belonging to the same common link must have matching link IDs, and not other instance in the network should have that link ID.

## EAP-TLS/EAP-TTLS

EAP-TLS Extensible Authentication Protocol - Transport Layer Security. A general protocol for authentication that also supports multiple authentication methods, such as token cards, Kerberos, one-time passwords, certificates, public key authentication and smart cards.

IEEE 802.1x specifies how EAP should be encapsulated in LAN frames.

In wireless communications using EAP, a user requests connection to a WLAN through an access point, which then requests the identity of the user and transmits that identity to an authentication server such as RADIUS. The server asks the access point for proof of identity, which the access point gets from the user and then sends back to the server to complete the authentication.

EAP-TLS provides for certificate-based and mutual authentication of the client and the network. It relies on client-side and server-side certificates to perform authentication and can be used to dynamically generate user-based and session-based WEP keys.

EAP-TTLS (Tunneled Transport Layer Security) is an extension of EAP-TLS to provide certificate-based, mutual authentication of the client and network through an encrypted tunnel, as well as to generate dynamic, per-user, per-session WEP keys. Unlike EAP-TLS, EAP-TTLS requires only server-side certificates.

(See also [PEAP](#).)

## EBGP

Exterior Border Gateway Protocol. EBGP is a protocol in the IP suite designed to exchange network reachability information with BGP systems in other [autonomous systems](#). EBGP works between different ASs.

## ECMP

Equal Cost Multi Paths. This routing algorithm distributes network traffic across multiple high-bandwidth [OSPF](#), [BGP](#), IS-IS, and static routes to increase performance. The Extreme Networks implementation supports multiple equal cost paths between points and divides traffic evenly among the available paths.

## edge ports

In [STP](#), edge ports connect to non-STP devices such as routers, endstations, and other hosts.

## edge safeguard

Loop prevention and detection on an edge port configured for **RSTP** is called *edge safeguard*. Configuring edge safeguard on RSTP edge ports can prevent accidental or deliberate misconfigurations (loops) resulting from connecting two edge ports together or from connecting a hub or other non-STP switch to an edge port. Edge safeguard also limits the impact of broadcast storms that might occur on edge ports. This advanced loop prevention mechanism improves network resiliency but does not interfere with the rapid convergence of edge ports. For more information about edge safeguard, see Configuring Edge Safeguard in the *ExtremeXOS 21.1 User Guide*.

## EDP

Extreme Discovery Protocol. EDP is a protocol used to gather information about neighbor Extreme Networks switches. Extreme Networks switches use EDP to exchange topology information.

## EEPROM

Electrically erasable programmable read-only memory. EEPROM is a memory that can be electronically programmed and erased but does not require a power source to retain data.

## EGP

Exterior Gateway Protocol. EGP is an Internet routing protocol for exchanging reachability information between routers in different **autonomous systems**. **BGP** is a more recent protocol that accomplishes this task.

## election algorithm

In ESRP, this is a user-defined criteria to determine how the master and slave interact. The election algorithm also determines which device becomes the master or slave and how ESRP makes those decisions.

## ELRP

Extreme Loop Recovery Protocol. ELRP is an Extreme Networks-proprietary protocol that allows you to detect Layer 2 loops.

## ELSM

Extreme Link Status Monitoring. ELSM is an Extreme Networks-proprietary protocol that monitors network health. You can also use ELSM with Layer 2 control protocols to improve Layer 2 loop recovery in the network.

## EMISTP

Extreme Multiple Instance Spanning Tree Protocol. This Extreme Networks-proprietary protocol uses a unique encapsulation method for STP messages that allows a physical port to belong to multiple STPDs.

## EMS

Event Management System. This Extreme Networks-proprietary system saves, displays, and filters events, which are defined as any occurrences on a switch that generate a log message or require action.

## encapsulation mode

Using [STP](#), you can configure ports within an STPD to accept specific BPDU encapsulations. The three encapsulation modes are:

- 802.1D—This mode is used for backward compatibility with previous STP versions and for compatibility with third-party switches using IEEE standard 802.1D.
- EMISTP—Extreme Multiple Instance Spanning Tree Protocol mode is an extension of STP that allows a physical port to belong to multiple STPDs by assigning the port to multiple VLANs.
- PVST+—This mode implements PVST+ in compatibility with third-party switches running this version of STP.

## EPICenter

See [Ridgeline](#).

## ESRP

Extreme Standby Router Protocol. ESRP is an Extreme Networks-proprietary protocol that provides redundant Layer 2 and routing services to users.

## ESRP-aware device

This is an Extreme Networks device that is not running ESRP itself but that is connected on a network with other Extreme Networks switches that are running ESRP. These ESRP-aware devices also fail over.

## ESRP domain

An ESRP domain allows multiple VLANs to be protected under a single logical entity. An ESRP domain consists of one domain-master VLAN and zero or more domain-member VLANs.

## ESRP-enabled device

An ESRP-enabled device is an Extreme Networks switch with an ESRP domain and ESRP enabled. ESRP-enabled switches include the ESRP master and slave switches.

## ESRP extended mode

ESRP extended mode supports and is compatible only with switches running ExtremeXOS software exclusively.



## ESRP group

An ESRP group runs multiple instances of ESRP within the same VLAN (or broadcast domain). To provide redundancy at each tier, use a pair of ESRP switches on the group.

## ESRP instance

You enable ESRP on a per domain basis; each time you enable ESRP is an ESRP instance.

## ESRP VLAN

A VLAN that is part of an ESRP domain, with ESRP enabled, is an ESRP VLAN.

## ESS

Extended Service Set. Several Basic Service Sets (BSSs) can be joined together to form one logical WLAN segment, referred to as an extended service set (ESS). The SSID is used to identify the ESS. (See [BSS](#) and [SSID](#).)

## ethernet

This is the IEEE 802.3 networking standard that uses carrier sense multiple access with collision detection (CSMA/CD). An Ethernet device that wants to transmit first checks the channel for a carrier, and if no carrier is sensed within a period of time, the device transmits. If two devices transmit simultaneously, a collision occurs. This collision is detected by all transmitting devices, which subsequently delay their retransmissions for a random period. Ethernet runs at speeds from 10 Mbps to 10 Gbps on full duplex.

## event

Any type of occurrence on a switch that could generate a log message or require an action. For more, see [syslog](#).

## external table

To route traffic between [autonomous systems](#), external routing protocols and tables, such as [EGP](#) and [BGP](#), are used.

## F

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### fabric module (FM)

For more information about available fabric modules, see "Fabric Modules" in the [ExtremeSwitching X8 Series Switches Hardware Installation Guide](#).

## fast convergence

In **EAPS**, Fast Convergence allows convergence in the range of 50 milliseconds. This parameter is configured for the entire switch, not by EAPS domain.

## fast path

This term refers to the data path for a packet that traverses the switch and does not require processing by the CPU. Fast path packets are handled entirely by ASICs and are forwarded at wire speed rate.

## FDB

Forwarding database. The switch maintains a database of all MAC address received on all of its ports and uses this information to decide whether a frame should be forwarded or filtered. Each FDB entry consists of the MAC address of the sending device, an identifier for the port on which the frame was received, and an identifier for the VLAN to which the device belongs. Frames destined for devices that are not currently in the FDB are flooded to all members of the VLAN. For some types of entries, you configure the time it takes for the specific entry to age out of the FDB.

## FHSS

Frequency-Hopping Spread Spectrum. A transmission technology used in Local Area Wireless Network (LAWN) transmissions where the data signal is modulated with a narrowband carrier signal that 'hops' in a random but predictable sequence from frequency to frequency as a function of time over a wide band of frequencies. This technique reduces interference. If synchronized properly, a single logical channel is maintained. (Compare with **DSSS**.)

## FIB

Forwarding Information Base. On BlackDiamond 8800 series switches and Summit family switches, the Layer 3 routing table is referred to as the FIB.

## fit, thin, and fat APs

A *thin* AP architecture uses two components: an access point that is essentially a stripped-down radio and a centralized management controller that handles the other WLAN system functions. Wired network switches are also required.

A *fit* AP, a variation of the thin AP, handles the RF and encryption, while the central management controller, aware of the wireless users' identities and locations, handles secure roaming, quality of service, and user authentication. The central management controller also handles AP configuration and management.

A *fat* (or thick) AP architecture concentrates all the WLAN intelligence in the access point. The AP handles the radio frequency (RF) communication, as well as authenticating users, encrypting communications, secure roaming, WLAN management, and in some cases, network routing.

## frame

This is the unit of transmission at the data link layer. The frame contains the header and trailer information required by the physical medium of transmission.

## FQDN

Fully Qualified Domain Name. A 'friendly' designation of a computer, of the general form computer.[subnetwork.]organization.domain. The FQDN names must be translated into an IP address in order for the resource to be found on a network, usually performed by a [DNS](#).

## full-duplex

This is the communication mode in which a device simultaneously sends and receives over the same link, doubling the bandwidth. Thus, a full-duplex 100 Mbps connection has a bandwidth of 200 Mbps, and so forth. A device either automatically adjusts its duplex mode to match that of a connecting device or you can configure the duplex mode; all devices at 1 Gbps or higher run only in full-duplex mode.

## FTM

Forwarding Table Manager.

## FTP

File Transfer Protocol.

## G

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## gateway

In the wireless world, an access point with additional software capabilities such as providing [NAT](#) and [DHCP](#). Gateways may also provide [VPN](#) support, roaming, firewalls, various levels of security, etc.

## gigabit ethernet

This is the networking standard for transmitting data at 1000 Mbps or 1 Gbps. Devices can transmit at multiples of gigabit Ethernet as well.

## gratuitous ARP

When a host sends an [ARP](#) request to resolve its own IP address, it is called gratuitous ARP. For more information, see Gratuitous ARP Protection in the [ExtremeXOS 21.1 User Guide](#).

## GUI

Graphical User Interface.

## H

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### HA

Host Attach. In ExtremeXOS software, HA is part of ESRP that allows you to connect active hosts directly to an [ESRP](#) switch; it allows configured ports to continue Layer 2 forwarding regardless of their ESRP status.

### half-duplex

This is the communication mode in which a device can either send or receive data, but not simultaneously. (Devices at 1 Gbps or higher do not run in half-duplex mode; they run only in full-duplex mode.)

### header

This is control information (such as originating and destination stations, priority, error checking, and so forth) added in front of the data when encapsulating the data for network transmission.

### heartbeat message

A [UDP](#) data packet used to monitor a data connection, polling to see if the connection is still alive. In general terms, a heartbeat is a signal emitted at regular intervals by software to demonstrate that it is still alive. In networking, a heartbeat is the signal emitted by a Level 2 Ethernet transceiver at the end of every packet to show that the collision-detection circuit is still connected.

### hitless failover

In the Extreme Networks implementation on modular switches and SummitStacks, hitless failover means that designated configurations survive a change of primacy between the two MSMs (modular switches) or master/backup nodes (SummitStacks) with all details intact. Thus, those features run seamlessly during and after control of the system changes from one MSM or node to another.

### host

- 1 A computer (usually containing data) that is accessed by a user working on a remote terminal, connected by modems and telephone lines.
- 2 A computer that is connected to a TCP/IP network, including the Internet. Each host has a unique IP address.

### HTTP

Hypertext Transfer Protocol is the set of rules for transferring files (text, graphic images, sound, video, and other multimedia files) on the World Wide Web. A Web browser makes use of HTTP. HTTP is an application protocol that runs on top of the TCP/IP suite of protocols. (RFC 2616: Hypertext Transfer Protocol -- HTTP/1.1)

## HTTPS

Hypertext Transfer Protocol over Secure Socket Layer, or HTTP over SSL, is a web protocol that encrypts and decrypts user page requests as well as the pages that are returned by the Web server. HTTPS uses Secure Socket Layer (SSL) as a sublayer under its regular HTTP application layering. (HTTPS uses port 443 instead of HTTP port 80 in its interactions with the lower layer, TCP/IP.) SSL uses a 40-bit key size for the RC4 stream encryption algorithm, which is considered an adequate degree of encryption for commercial exchange.

## I

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### IBGP

Interior Border Gateway Protocol. IBGP is the **BGP** version used within an **AS**.

### IBSS

Independent Basic Service Set (see **BSS**). An IBSS is the 802.11 term for an ad-hoc network. See **ad-hoc mode**.

### ICMP

Internet Control Message Protocol. ICMP is the part of the TCP/IP protocol that allows generation of error messages, test packets, and operating messages. For example, the ping command allows you to send ICMP echo messages to a remote IP device to test for connectivity. ICMP also supports traceroute, which identifies intermediate hops between a given source and destination.

### ICV

ICV (Integrity Check Value) is a 4-byte code appended in standard **WEP** to the 802.11 message. Enhanced WPA inserts an 8-byte MIC just before the ICV. (See **WPA** and **MIC**.)

### IEEE

Institute of Electrical and Electronic Engineers. This technical professional society fosters the development of standards that often become national and international standards. The organization publishes a number of journals and has many local chapters and several large societies in special areas.

### IETF

Internet Engineering Task Force. The IETF is a large, open, international community of network designers, operators, vendors, and researchers concerned with the evolution of the Internet architecture and the smooth operation of the Internet. The technical work of the IETF is done in working groups, which are organized by topic.

## IGMP

Internet Group Management Protocol. Hosts use IGMP to inform local routers of their membership in multicast groups. Multicasting allows one computer on the Internet to send content to multiple other computers that have identified themselves as interested in receiving the originating computer's content. When all hosts leave a group, the router no longer forwards packets that arrive for the multicast group.

## IGMP snooping

This provides a method for intelligently forwarding multicast packets within a Layer 2 broadcast domain. By “snooping” the IGMP registration information, the device forms a distribution list that determines which endstations receive packets with a specific multicast address. Layer 2 switches listen for IGMP messages and build mapping tables and associated forwarding filters. IGMP snooping also reduces IGMP protocol traffic.

## IGP

Interior Gateway Protocol. IGP refers to any protocol used to exchange routing information within an [AS](#). Examples of Internet IGPs include [RIP](#) and [OSPF](#).

## inline power

According to IEEE 802.3 af, inline power refers to providing an AC or DC power source through the same cable as the data travels. It allows phones and network devices to be placed in locations that are not near AC outlets. Most standard telephones use inline power.

## infrastructure mode

An 802.11 networking framework in which devices communicate with each other by first going through an access point. In infrastructure mode, wireless devices can communicate with each other or can communicate with a wired network. (See [ad-hoc mode](#) and [BSS](#).)

## intermediate certificate

A certificate in the middle of a certificate chain, that bridges the trust relationship between the server certificate and the trusted certificate.

## IP

Internet Protocol. The communications protocol underlying the Internet, IP allows large, geographically diverse networks of computers to communicate with each other quickly and economically over a variety of physical links; it is part of the TCP/IP suite of protocols. IP is the Layer 3, or network layer, protocol that contains addressing and control information that allows packets to be routed. IP is the most widely used networking protocol; it supports the idea of unique addresses for each computer on the network. IP is a connectionless, best-effort protocol; TCP reassembles the data after transmission. IP specifies the format and addressing scheme for each packet.

## IPC

Interprocess Communication. A capability supported by some operating systems that allows one process to communicate with another process. The processes can be running on the same computer or on different computers connected through a network.

## IPsec/IPsec-ESP/IPsec-AH

<b>Internet Protocol security (IPSec)</b>	Internet Protocol security.
<b>Encapsulating Security Payload (IPsec-ESP)</b>	The encapsulating security payload (ESP) encapsulates its data, enabling it to protect data that follows in the datagram.
<b>Internet Protocol security Authentication Header (IPsec-AH)</b>	AH protects the parts of the IP datagram that can be predicted by the sender as it will be received by the receiver.

IPsec is a set of protocols developed by the IETF to support secure exchange of packets at the IP layer. IPsec has been deployed widely to implement Virtual Private Networks (VPNs).

IPsec supports two encryption modes: Transport and Tunnel. Transport mode encrypts only the data portion (payload) of each packet, but leaves the header untouched. The more secure Tunnel mode encrypts both the header and the payload. On the receiving side, an IPsec-compliant device decrypts each packet.

For IPsec to work, the sending and receiving devices must share a public key. This is accomplished through a protocol known as Internet Security Association and Key Management Protocol/Oakley (ISAKMP/Oakley), which allows the receiver to obtain a public key and authenticate the sender using digital certificates.

## IPv6

Internet Protocol version 6. IPv6 is the next-generation IP protocol. The specification was completed in 1997 by IETF. IPv6 is backward-compatible with and is designed to fix the shortcomings of IPv4, such as data security and maximum number of user addresses. IPv6 increases the address space from 32 to 128 bits, providing for an unlimited (for all intents and purposes) number of networks and systems; IPv6 is expected to slowly replace IPv4, with the two existing side by side for many years.

## IP address

IP address is a 32-bit number that identifies each unique sender or receiver of information that is sent in packets; it is written as four octets separated by periods (dotted-decimal format). An IP address has two parts: the identifier of a particular network and an identifier of the particular device (which can be a server or a workstation) within that network. You may add an optional sub-network identifier. Only the network part of the address is looked at between the routers that move packets from one point to another along the network. Although you can have a static IP address, many IP addresses are assigned dynamically from a pool. Many corporate networks and online services economize on the number of IP addresses they use by sharing a pool of IP addresses among a large number of users. (The format of the IP address is slightly changed in IPv6.)

## IPTV

Internal Protocol television. IPTV uses a digital signal sent via broadband through a switched telephone or cable system. An accompanying set top box (that sits on top of the TV) decodes the video and converts it to standard television signals.

## IR

Internal router. In [OSPF](#), IR is an internal router that has all interfaces within the same area.

## IRDP

Internet Router Discovery Protocol. Used with IP, IRDP enables a host to determine the address of a router that it can use as a default gateway. In Extreme Networks implementation, IP multinetting requires a few changes for the IRDP.

## ISO

This abbreviation is commonly used for the International Organization for Standardization, although it is not an acronym. ISO was founded in 1946 and consists of standards bodies from more than 75 nations. ISO had defined a number of important computer standards, including the OSI reference model used as a standard architecture for networking.

## isochronous

Isochronous data is data (such as voice or video) that requires a constant transmission rate, where data must be delivered within certain time constraints. For example, multimedia streams require an isochronous transport mechanism to ensure that data is delivered as fast as it is displayed and to ensure that the audio is synchronized with the video. Compare: asynchronous processes in which data streams can be broken by random intervals, and synchronous processes, in which data streams can be delivered only at specific intervals.

## ISP

An Internet Service Provider is an organization that provides access to the Internet. Small ISPs provide service via modem and ISDN while the larger ones also offer private line hookups (T1, fractional T1, etc.). Customers are generally billed a fixed rate per month, but other charges may apply. For a fee, a Web site can be created and maintained on the ISP's server, allowing the smaller organization to have a presence on the Web with its own domain name.

## ITU-T

International Telecommunication Union-Telecommunication. The ITU-T is the telecommunications division of the ITU international standards body.



## IV

Initialization Vector. Part of the standard WEP encryption mechanism that concatenates a shared secret key with a randomly generated 24-bit initialization vector. WPA with TKIP uses 48-bit IVs, an enhancement that significantly increases the difficulty in cracking the encryption. (See [WPA](#) and [TKIP](#).)

## J

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### jumbo frames

Ethernet frames larger than 1522 bytes (including the 4 bytes in the [CRC](#)). The jumbo frame size is configurable on Extreme Networks devices; the range is from 1523 to 9216 bytes.

## L

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### LACP

Link Aggregation Control Protocol. LACP is part of the IEEE 802.3ad and automatically configures multiple aggregated links between switches.

### LAG

Link aggregation group. A LAG is the logical high-bandwidth link that results from grouping multiple network links in link aggregation (or load sharing). You can configure static LAGs or dynamic LAGs (using the LACP).

### Layer 2

Layer 2 is the second, or data link, layer of the OSI model, or the MAC layer. This layer is responsible for transmitting frames across the physical link by reading the hardware, or MAC, source and destination addresses.

### Layer 3

Layer 3 is the third layer of the OSI model. Also known as the network layer, Layer 3 is responsible for routing packets to different LANs by reading the network address.

### LED

Light-emitting diode. LEDs are on the device and provide information on various states of the device's operation. See your hardware documentation for a complete explanation of the LEDs on devices running ExtremeXOS.

### legacy certificate

The certificates that shipped with Extreme Management Center and NAC 4.0.0 and earlier.

## LFS

Link Fault Signal. LFS, which conforms to IEEE standard 802.3ae-2002, monitors 10 Gbps ports and indicates either remote faults or local faults.

## license

ExtremeXOS version 11.1 introduces a licensing feature to the ExtremeXOS software. You must have a license, which you obtain from Extreme Networks, to apply the full functionality of some features.

## link aggregation

Link aggregation, also known as trunking or load sharing, conforms to IEEE 802.3ad. This feature is the grouping of multiple network links into one logical high-bandwidth link.

## link type

In **OSPF**, there are four link types that you can configure: auto, broadcast, point-to-point, and passive.

## LLDP

Link Layer Discovery Protocol. LLDP conforms to IEEE 802.1ab and is a neighbor discovery protocol. Each LLDP-enabled device transmits information to its neighbors, including chassis and port identification, system name and description, VLAN names, and other selected networking information. The protocol also specifies timing intervals in order to ensure current information is being transmitted and received.

## load sharing

Load sharing, also known as trunking or link aggregation, conforms to IEEE 802.3ad. This feature is the grouping of multiple network links into one logical high-bandwidth link. For example, by grouping four 100 Mbps of full-duplex bandwidth into one logical link, you can create up to 800 Mbps of bandwidth. Thus, you increase bandwidth and availability by using a group of ports to carry traffic in parallel between switches.

## loop detection

In **ELRP**, loop detection is the process used to detect a loop in the network. The switch sending the ELRP PDU waits to receive its original PDU back. If the switch received this original PDU, there is a loop in the network.

## LSA

Link state advertisement. An LSA is a broadcast packet used by link state protocols, such as **OSPF**. The LSA contains information about neighbors and path costs and is used by the receiving router to maintain a routing table.

## LSDB

Link state database. In **OSPF**, LSDB is a database of information about the link state of the network. Two neighboring routers consider themselves to be adjacent only if their LSDBs are synchronized. All routing information is exchanged only between adjacent routers.

## M

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### MAC

Media Access Control layer. One of two sub-layers that make up the Data Link Layer of the OSI model. The MAC layer is responsible for moving data packets to and from one **NIC** to another across a shared channel.

### MAC address

Media access control address. The MAC address, sometimes known as the hardware address, is the unique physical address of each network interface card on each device.

### MAN

Metropolitan area network. A MAN is a data network designed for a town or city. MANs may be operated by one organization such as a corporation with several offices in one city, or be shared resources used by several organizations with several locations in the same city. MANs are usually characterized by very high-speed connections.

### master node

In **EAPS**, the master node is a switch, or node, that is designated the master in an EAPS domain ring. The master node blocks the secondary port for all non-control traffic belonging to this EAPS domain, thereby avoiding a loop in the ring.

### master router

In **VRRP**, the master router is the physical device (router) in the VRRP virtual router that is responsible for forwarding packets sent to the VRRP virtual router and for responding to ARP requests. The master router sends out periodic advertisements that let backup routers on the network know that it is alive. If the VRRP IP address owner is identified, it always becomes the master router.

### master VLAN

In **ESRP**, the master VLAN is the VLAN on the ESRP domain that exchanges ESRP-PDUs and data between a pair of ESRP-enabled devices. You must configure one master VLAN for each ESRP domain, and a master VLAN can belong to only one ESRP domain.

## MED

Multiple exit discriminator. **BGP** uses the MED metric to select a particular border router in another AS when multiple border routers exist.

## member VLAN

In **ESRP**, you configure zero or more member VLANs for each ESRP domain. A member VLAN can belong to only one ESRP domain. The state of the ESRP device determines whether the member VLAN is in forwarding or blocking state.

## MEP

In **CFM**, maintenance end point is an end point for a single domain, or maintenance association. The MEP may be either an UP MEP or a DOWN MEP.

## metering

In **QoS**, metering monitors the traffic pattern of each flow against the traffic profile. For out-of-profile traffic the metering function interacts with other components to either re-mark or drop the traffic for that flow. In the Extreme Networks implementation, you use **ACLs** to enforce metering.

## MIB

Management Information Base. MIBs make up a database of information (for example, traffic statistics and port settings) that the switch makes available to network management systems. MIB names identify objects that can be managed in a network and contain information about the objects. MIBs provide a means to configure a network device and obtain network statistics gathered by the device. Standard, minimal MIBs have been defined, and vendors often have private enterprise MIBs.

## MIC

Message Integrity Check or Code (MIC), also called 'Michael', is part of WPA and TKIP. The MIC is an additional 8-byte code inserted before the standard 4-byte integrity check value (ICV) that is appended in by standard WEP to the 802.11 message. This greatly increases the difficulty in carrying out forgery attacks.

Both integrity check mechanisms are calculated by the receiver and compared against the values sent by the sender in the frame. If the values match, there is assurance that the message has not been tampered with. (See **WPA**, **TKIP**, and **ICV**.)

## MIP

In **CFM**, the maintenance intermediate point is intermediate between endpoints. Each MIP is associated with a single domain, and there may be more than one MIP in a single domain.

## mirroring

Port mirroring configures the switch to copy all traffic associated with one or more ports to a designated monitor port. The monitor port can be connected to a network analyzer or RMON probe for packet analyzer.

## MLAG

Multi-switch Link Aggregation Group (a.k.a. Multi-Chassis Link Aggregation Group). This feature allows users to combine ports on two switches to form a single logical connection to another network device. The other network device can be either a server or a switch that is separately configured with a regular LAG (or appropriate server port teaming) to form the port aggregation.

## MM

Management Module. For more information, see "Management Modules" in the *ExtremeSwitching X8 Series Switches Hardware Installation Guide*.

## MMF

Multimode fiber. MMF is a fiber optic cable with a diameter larger than the optical wavelength, in which more than one bound mode can propagate. Capable of sending multiple transmissions simultaneously, MMF is commonly used for communications of 2 km or less.

## MSDP

Multicast Source Discovery Protocol. MSDP is used to connect multiple multicast routing domains. MSDP advertises multicast sources across Protocol Independent Multicast-Sparse Mode (PIM-SM) multicast domains or Rendezvous Points (RPs). In turn, these RPs run MSDP over TCP to discover multicast sources in other domains.

## MSM

Master Switch Fabric Module. This Extreme Networks-proprietary name refers to the module that holds both the control plane and the switch fabric for switches that run the ExtremeXOS software on modular switches. One MSM is required for switch operation; adding an additional MSM increases reliability and throughput. Each MSM has two CPUs. The MSM has LEDs as well as a console port, management port, modem port, and compact flash; it may have data ports as well. The MSM is responsible for upper-layer protocol processing and system management functions. When you save the switch configuration, it is saved to all MSMs.

## MSTI

Multiple Spanning Tree Instances. MSTIs control the topology inside an MSTP region. An MSTI is a spanning tree domain that operates within a region and is bounded by that region; and MSTI does not exchange BPDUs or send notifications to other regions. You can map multiple VLANs to an MSTI; however, each VLAN can belong to only one MSTI. You can configure up to 64 MSTIs in an MSTP region.

## MSTI regional root bridge

In an MSTP environment, each MSTI independently elects its own root bridge. The bridge with the lowest bridge ID becomes the MSTI regional root bridge. The bridge ID includes the bridge priority and the MAC address.

## MSTI root port

In an MSTP environment, the port on the bridge with the lowest path cost to the MSTI regional root bridge is the MSTI root port.

## MSTP

Multiple Spanning Tree Protocol. MSTP, based on IEEE 802.1Q-2003 (formerly known as IEEE 892.1s), allows you to bundle multiple VLANs into one spanning tree (STP) topology, which also provides enhanced loop protection and better scaling. MSTP uses RSTP as the converging algorithm and is compatible with legacy STP protocols.

## MSTP region

An MSTP region defines the logical boundary of the network. Interconnected bridges that have the same MSTP configuration are referred to as an MSTP region. Each MSTP region has a unique identifier, is bound together by one CIST that spans the entire network, and contains from 0 to 64 MSTIs. A bridge participates in only one MSTP region at one time. An MSTP topology is individual MSTP regions connected either to the rest of the network with 802.1D and 802.1w bridges or to each other.

## MTU

Maximum transmission unit. This term is a configurable parameter that determines the largest packet than can be transmitted by an IP interface (without the packet needing to be broken down into smaller units).



### Note

Packets that are larger than the configured MTU size are dropped at the ingress port. Or, if configured to do so, the system can fragment the IPv4 packets and reassemble them at the receiving end.

## multicast

Multicast messages are transmitted to selected devices that specifically join the multicast group; the addresses are specified in the destination address field. In other words, multicast (point-to-multipoint) is a communication pattern in which a source host sends a message to a group of destination hosts.

## multinetting

IP multinetting assigns multiple logical IP interfaces on the same circuit or physical interface. This allows one bridge domain (VLAN) to have multiple IP networks.

## MVR

Multicast VLAN registration. MVR allows a subscriber on a port to subscribe and unsubscribe to a multicast stream on the network-wide multicast VLAN; it allows the single multicast VLAN to be shared in the network while subscribers remain in separate VLANs. MVR provides the ability to continuously send multicast streams in the multicast VLAN, but to isolate the The application from the subscriber VLANs for bandwidth and security reasons. MVR allows a multicast stream received over a Layer 2 VLAN to be forwarded to another VLAN, eliminating the need for a Layer 3 routing protocol; this feature is often used for IPTV applications.

## N

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### NAS

Network Access Server. This is server responsible for passing information to designated RADIUS servers and then acting on the response returned. A NAS-Identifier is a RADIUS attribute identifying the NAS server. (RFC 2138)

### NAT

Network Address Translation (or Translator). This is a network capability that enables a group of computers to dynamically share a single incoming IP address. NAT takes the single incoming IP address and creates a new IP address for each client computer on the network.

### netlogin

Network login provides extra security to the network by assigning addresses only to those users who are properly authenticated. You can use web-based, MAC-based, or IEEE 802.1X-based authentication with network login. The two modes of operation are campus mode and ISP mode.

### netmask

A netmask is a string of 0s and 1s that mask, or screen out, the network part of an IP address, so that only the host computer part of the address remains. A frequently-used netmask is 255.255.255.0, used for a Class C subnet (one with up to 255 host computers). The ".0" in the netmask allows the specific host computer address to be visible.

### neutral state/switch

In ESRP, the neutral state is the initial state entered by the switch. In a neutral state, the switch waits for ESRP to initialize and run. A neutral switch does not participate in ESRP elections.

### NIC

Network Interface Card. An expansion board in a computer that connects the computer to a network.

## NLRI

Network layer reachability information. In BGP, the system sends routing update messages containing NLRI to describe a route and how to get there. A BGP update message carries one or more NLRI prefixes and the attributes of a route for each NLRI prefix; the route attributes include a BGP next hop gateway address, community values, and other information.

## NMS

Network Management System. The system responsible for managing a network or a portion of a network. The NMS talks to network management agents, which reside in the managed nodes.

## node

In general networking terms, a node is a device on the network. In the Extreme Networks implementation, a node is a CPU that runs the management application on the switch. Each MSM on modular switches installed in the chassis is a node.

## node manager

The node manager performs the process of node election, which selects the master, or primary, MSM when you have two MSMs installed in the modular chassis. The node manager is useful for system redundancy.

## NSSA

Not-so-stubby area. In OSPF, NSSA is a stub area, which is connected to only one other area, with additional capabilities:

- External routes originating from an ASBR connected to the NSSA can be advertised within the NSSA.
- External routes originating from the NSSA can be propagated to other areas.

## NTP

Network Time Protocol, an Internet standard protocol (built on top of TCP/IP) that assures accurate synchronization to the millisecond of computer clock times in a network of computers. Based on UTC, NTP synchronizes client workstation clocks to the U.S. Naval Observatory Master Clocks in Washington, DC and Colorado Springs CO. Running as a continuous background client program on a computer, NTP sends periodic time requests to servers, obtaining server time stamps and using them to adjust the client's clock. (RFC 1305)

## O

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## odometer

In the Extreme Networks implementation, each field replaceable component contains a system odometer counter in EEPROM.



On modular switches, using the CLI, you can display how long each following individual component has been in service:

- chassis
- MSMs
- I/O modules
- power controllers

On standalone switches, you display the days of service for the switch.

## OFDM

Orthogonal frequency division multiplexing, a method of digital modulation in which a signal is split into several narrowband channels at different frequencies. OFDM is similar to conventional frequency division multiplexing (FDM). The difference lies in the way in which the signals are modulated and demodulated. Priority is given to minimizing the interference, or crosstalk, among the channels and symbols comprising the data stream. Less importance is placed on perfecting individual channels. OFDM is used in European digital audio broadcast services. It is also used in wireless local area networks.

## OID

Object identifier.

## option 82

This is a security feature that you configure as part of BOOTP/DHCP. Option 82 allows a server to bind the client's port, IP address, and MAC number for subscriber identification.

## OSI

Open Systems Interconnection. OSI is an ISO standard for worldwide communications that defines a networking framework for implementing protocols in seven layers. Control is passed from one layer to the next, starting at the application layer in one station, down through the presentation, session, transport, network, data link layer to the physical layer at the bottom, over the channel to the next station and back up the hierarchy.

## OSI Layer 2

At the Data Link layer (OSI Layer 2), data packets are encoded and decoded into bits. The data link layer has two sub-layers:

- The Logical Link Control (LLC) layer controls frame synchronization, flow control and error checking.
- The Media Access Control (MAC) layer controls how a computer on the network gains access to the data and permission to transmit it.

## OSI Layer 3

The Network layer (OSI Layer 3) provides switching and routing technologies, creating logical paths, known as virtual circuits, for transmitting data from node to node. Routing and forwarding are functions of this layer, as well as addressing, inter-networking, error handling, congestion control and packet sequencing.

## OSI reference model

The seven-layer standard model for network architecture is the basis for defining network protocol standards and the way that data passes through the network. Each layer specifies particular network functions; the highest layer is closest to the user, and the lowest layer is closest to the media carrying the information. So, in a given message between users, there will be a flow of data through each layer at one end down through the layers in that computer and, at the other end, when the message arrives, another flow of data up through the layers in the receiving computer and ultimately to the end user or program. This model is used worldwide for teaching and implementing networking protocols.

## OSPF

Open Shortest Path First. An interior gateway routing protocol for TCP/IP networks, OSPF uses a link state routing algorithm that calculates routes for packets based on a number of factors, including least hops, speed of transmission lines, and congestion delays. You can also configure certain cost metrics for the algorithm. This protocol is more efficient and scalable than vector-distance routing protocols. OSPF features include least-cost routing, ECMP routing, and load balancing. Although OSPF requires CPU power and memory space, it results in smaller, less frequent router table updates throughout the network. This protocol is more efficient and scalable than vector-distance routing protocols.

## OSPFv3

OSPFv3 is one of the routing protocols used with IPV6 and is similar to OSPF.

## OUI

Organizational(ly) Unique Identifier. The OUI is the first 24 bits of a MAC address for a network device that indicate a specific vendor as assigned by IEEE.

## P

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### packet

This is the unit of data sent across a network. Packet is a generic term used to describe units of data at all levels of the protocol stack, but it is most correctly used to describe application data units. The packet is a group of bits, including data and control signals, arranged in a specific format. It usually includes a header, with source and destination data, and user data. The specific structure of the packet depends on the protocol used.

## PAP

Password Authentication Protocol. This is the most basic form of authentication, in which a user's name and password are transmitted over a network and compared to a table of name-password pairs. Typically, the passwords stored in the table are encrypted. (See [CHAP](#).)

## partner node

In [EAPS](#), the partner node is that end of the common link that is not a controller node; the partner node does not participate in any form of blocking.

## PD

Powered device. In PoE, the PD is the powered device that plugs into the PoE switch.

## PDU

Protocol data unit. A PDU is a message of a given protocol comprising payload and protocol-specific control information, typically contained in a header.

## PEAP

Protected Extensible Authentication Protocol. PEAP is an IETF draft standard to authenticate wireless LAN clients without requiring them to have certificates. In PEAP authentication, first the user authenticates the authentication server, then the authentication server authenticates the user. If the first phase is successful, the user is then authenticated over the SSL tunnel created in phase one using EAP-Generic Token Card (EAP-GTC) or Microsoft Challenged Handshake Protocol Version 2 (MSCHAP V2). (See also [EAP-TLS](#).)

## PEC

Power Entry Circuit.

## PEM

Power Entry Module.

## PIM-DM

Protocol-Independent Multicast - Dense mode. PIM-DM is a multicast protocol that uses Reverse Path Forwarding but does not require any particular unicast protocol. It is used when recipients are in a concentrated area.

## PIM-SM

Protocol-Independent Multicast - Sparse mode. PIM-SM is a multicast protocol that defines a rendezvous point common to both sender and receiver. Sender and receiver initiate communication at

the rendezvous point, and the flow begins over an optimized path. It is used when recipients are in a sparse area.

## ping

Packet Internet Groper. Ping is the **ICMP** echo message and its reply that tests network reachability of a device. Ping sends an echo packet to the specified host, waits for a response, and reports success or failure and statistics about its operation.

## PKCS #8 (Public-Key Cryptography Standard #8)

One of several standard formats which can be used to store a private key in a file. It can optionally be encrypted with a password.

## PKI

Public Key Infrastructure.

## PMBR

PIM multicast border router. A PMBR integrates PIM-DM and PIM-SM traffic.

## PoE

Power over Ethernet. The PoE standard (IEEE 802.3af) defines how power can be provided to network devices over existing Ethernet connections, eliminating the need for additional external power supplies.

## policy files

You use policy files in ExtremeXOS to specify **ACLs** and policies. A policy file is a text file (with a .pol extension) that specifies a number of conditions to test and actions to take. For ACLs, this information is applied to incoming traffic at the hardware level. Policies are more general and can be applied to incoming routing information; they can be used to rewrite and modify routing advertisements.

## port mirroring

Port mirroring configures the switch to copy all traffic associated with one or more ports to a designated monitor port. A packet bound for or heading away from the mirrored port is forwarded onto the monitor port as well. The monitor port can be connected to a network analyzer or RMON probe for packet analysis. Port mirroring is a method of monitoring network traffic that a network administrator uses as a diagnostic tool or debugging feature; it can be managed locally or remotely.

## POST

Power On Self Test. On Extreme Networks switches, the POST runs upon powering-up the device. Once the hardware elements are determined to be present and powered on, the boot sequence begins. If the MGMT LED is yellow after the POST completes, contact your supplier for advice.

## primary port

In **EAPS**, a primary port is a port on the master node that is designated the primary port to the ring.

## protected VLAN

In **STP**, protected VLANs are the other (other than the carrier VLAN) VLANs that are members of the STPD but do not define the scope of the STPD. Protected VLANs do not transmit or receive STP BPDUs, but they are affected by STP state changes and inherit the state of the carrier VLAN. Also known as non-carrier VLANs, they carry the data traffic.

In **EAPS**, a protected VLAN is a VLAN that carries data traffic through an EAPS domain. You must configure one or more protected VLANs for each EAPS domain. This is also known as a data VLAN.

## proxy ARP

This is the technique in which one machine, usually a router, answers ARP requests intended for another machine. By masquerading its identity (as an endstation), the router accepts responsibility for routing packets to the real destination. Proxy ARP allows a site to use a single IP address with two physical networks. Subnetting is normally a better solution.

## pseudowire

Sometimes spelled as "pseudo-wire" or abbreviated as PW. As described in RFC 3985, there are multiple methods for carrying networking services over a packet-switched network. In short, a pseudowire emulates networking or telecommunication services across packet-switched networks that use Ethernet, IP, or MPLS. Emulated services include T1 leased line, frame relay, Ethernet, ATM, TDM, or SONET/SDH.

## push-to-talk (PTT)

The push-to-talk is feature on wireless telephones that allows them to operate like a walkie-talkie in a group, instead of standard telephone operation. The PTT feature requires that the network be configured to allow multicast traffic.

A PTT call is initiated by selecting a channel and pressing the 'talk' key on the wireless telephone. All wireless telephones on the same network that are monitoring the channel will hear the transmission. On a PTT call you hold the button to talk and release it to listen.

## PVST+

Per VLAN Spanning Tree +. This implementation of STP has a 1:1 relationship with VLANs. The Extreme Networks implementation of PVST+ allows you to interoperate with third-party devices running this version of STP. PVST is a earlier version of this protocol and is compatible with PVST+.

## Q

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## QoS

Quality of Service. Policy-enabled QoS is a network service that provides the ability to prioritize different types of traffic and to manage bandwidth over a network. QoS uses various methods to prioritize traffic, including IEEE 802.1p values and IP DiffServ values. QoS features provide better network service by supporting dedicated bandwidth, improving loss characteristics, avoiding and managing network congestion, shaping network traffic, and setting traffic priorities across the network. (RFC 2386)

## R

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### radar

Radar is a set of advanced, intelligent, Wireless-Intrusion-Detection-Service-Wireless-Intrusion-Prevention-Service (WIDS-WIPS) features that are integrated into the Wireless Controller and its access points (APs). Radar provides a basic solution for discovering unauthorized devices within the wireless coverage area. Radar performs basic RF network analysis to identify unmanaged APs and personal ad-hoc networks. The Radar feature set includes: intrusion detection, prevention and interference detection.

### RADIUS

Remote Authentication Dial In User Service. RADIUS is a client/server protocol and software that enables remote access servers to communicate with a central server to authenticate dial-in users and authorize their access to the requested system or service. RADIUS allows a company to maintain user profiles in a central database that all remote servers can share. It provides better security, allowing a company to set up a policy that can be applied at a single administered network point. With RADIUS, you can track usage for billing and for keeping network statistics.

### RARP

Reverse ARP. Using this protocol, a physical device requests to learn its IP address from a gateway server's ARP table. When a new device is set up, its RARP client program requests its IP address from the RARP server on the router. Assuming that an entry has been set up in the router table, the RARP server will return the IP address to the machine which can store it for future use.

### rate limiting

In [QoS](#), rate limiting is the process of restricting traffic to a peak rate (PR). For more information, see rate limiting and rate shaping in the [ExtremeXOS 21.1 User Guide](#).

### rate shaping

In [QoS](#), rate shaping is the process of reshaping traffic throughput to give preference to higher priority traffic or to buffer traffic until forwarding resources become available. For more information, see rate limiting and rate shaping in the [ExtremeXOS 21.1 User Guide](#).

## RF

Radio Frequency. A frequency in the electromagnetic spectrum associated with radio wave propagation. When an RF current is supplied to an antenna, an electromagnetic field is created that can propagate through space. These frequencies in the electromagnetic spectrum range from Ultra-low frequency (ULF): 0-3 Hz to Extremely high frequency (EHF): 30 GHz–300 GHz. The middle ranges are: Low frequency (LF): 30 kHz–300 kHz; Medium frequency (MF): 300 kHz–3 MHz; High frequency (HF): 3 MHz–30 MHz; Very high frequency (VHF): 30 MHz–300 MHz; and Ultra-high frequency (UHF): 300 MHz–3 GHz.

## RFC

Request for Comment. The IETF RFCs describe the definitions and parameters for networking. The RFCs are catalogued and maintained on the IETF RFC website: [www.ietf.org/rfc.html](http://www.ietf.org/rfc.html).

## Ridgeline

Ridgeline is an Extreme Networks-proprietary graphical user interface (GUI) network management system. The name was changed from EPICenter to Ridgeline in 2011.

## RIP

Routing Information Protocol. This IGP vector-distance routing protocol is part of the TCP/IP suite and maintains tables of all known destinations and the number of hops required to reach each. Using RIP, routers periodically exchange entire routing tables. RIP is suitable for use only as an IGP.

## RIPng

RIP next generation. RIPng is one of the routing protocols used with IPv6 and is similar to RIP.

## RMON

Remote monitoring. RMON is a standardized method to make switch and router information available to remote monitoring applications. It is an SNMP network management protocol that allows network information to be gathered remotely. RMON collects statistics and enables a management station to monitor network devices from a central location. It provides multivendor interoperability between monitoring devices and management stations. RMON is described in several RFCs (among them IETF RFC 1757 and RFC 2201).

Network administrators use RMON to monitor, analyze, and troubleshoot the network. A software agent can gather the information for presentation to the network administrator with a graphical user interface (GUI). The administrator can find out how much bandwidth each user is using and what web sites are being accessed; you can also set alarms to be informed of potential network problems.

## roaming

In 802.11, roaming occurs when a wireless device (a station) moves from one Access Point to another (or BSS to another) in the same Extended Service Set (ESS) -identified by its SSID.

## root bridge

In **STP**, the root bridge is the bridge with the best bridge identifier selected to be the root bridge. The network has only one root bridge. The root bridge is the only bridge in the network that does not have a root port.

## root port

In **STP**, the root port provides the shortest path to the root bridge. All bridges except the root bridge contain one root port.

## route aggregation

In **BGP**, you can combine the characteristics of several routes so they are advertised as a single route, which reduces the size of the routing tables.

## route flapping

A route is flapping when it is repeatedly available, then unavailable, then available, then unavailable. In the ExtremeXOS **BGP** implementation, you can minimize the route flapping using the route flap dampening feature.

## route reflector

In **BGP**, you can configure the routers within an **AS** such that a single router serves as a central routing point for the entire AS.

## routing confederation

In **BGP**, you can configure a fully meshed **autonomous system** into several sub-ASs and group these sub-ASs into a routing confederation. Routing confederations help with the scalability of BGP.

## RP-SMA

Reverse Polarity-Subminiature version A, a type of connector used with wireless antennas.

## RSN

Robust Security Network. A new standard within IEEE 802.11 to provide security and privacy mechanisms. The RSN (and related TSN) both specify IEEE 802.1x authentication with Extensible Authentication Protocol (EAP).

## RSSI

RSSI received signal strength indication (in 802.11 standard).



## RTS/CTS

RTS request to send, CTS clear to send (in 802.11 standard).

## RSTP

Rapid Spanning Tree Protocol. RSTP, described in IEEE 802.1w, is an enhanced version of STP that provides faster convergence. The Extreme Networks implementation of RSTP allows seamless interoperability with legacy [STP](#).

## S

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### SA

Source address. The SA is the IP or MAC address of the device issuing the packet.

### SCP

Secure Copy Protocol. SCP2, part of SSH2, is used to transfer configuration and policy files.

### SDN

Software-defined Networking. An approach to computer networking that seeks to manage network services through decoupling the system that makes decisions about where traffic is sent (control plane) from the underlying systems that forward traffic to the selected destination (data plan).

### secondary port

In [EAPS](#), the secondary port is a port on the master node that is designated the secondary port to the ring. The transit node ignores the secondary port distinction as long as the node is configured as a transit node.

### segment

In Ethernet networks, a section of a network that is bounded by bridges, routers, or switches. Dividing a LAN segment into multiple smaller segments is one of the most common ways of increasing available bandwidth on the LAN.

### server certificate

A certificate identifying a server. When a client connects to the server, the server sends its certificate to the client and the client validates the certificate to trust the server.

### sFlow

sFlow allows you to monitor network traffic by statistically sampling the network packets and periodically gathering the statistics. The sFlow monitoring system consists of an sFlow agent

(embedded in a switch, router, or stand-alone probe) and an external central data collector, or sFlow analyzer.

## SFP

Small form-factor pluggable. These transceivers offer high speed and physical compactness.

## slow path

This term refers to the data path for packets that must be processed by the switch CPU, whether these packets are generated by the CPU, removed from the network by the CPU, or simply forwarded by the CPU.

## SLP

Service Location Protocol. A method of organizing and locating the resources (such as printers, disk drives, databases, e-mail directories, and schedulers) in a network.

Using SLP, networking applications can discover the existence, location and configuration of networked devices.

With Service Location Protocol, client applications are 'User Agents' and services are advertised by 'Service Agents'. The User Agent issues a multicast 'Service Request' (SrvRqst) on behalf of the client application, specifying the services required. The User Agent will receive a Service Reply (SrvRply) specifying the location of all services in the network which satisfy the request.

For larger networks, a third entity, called a 'Directory Agent', receives registrations from all available Service Agents. A User Agent sends a unicast request for services to a Directory Agent (if there is one) rather than to a Service Agent.

(SLP version 2, RFC2608, updating RFC2165)

## SMF

Single-mode fiber. SMF is a laser-driven optical fiber with a core diameter small enough to limit transmission to a single bound mode. SMF is commonly used in long distance transmission of more than three miles; it sends one transmission at a time.

## SMI

Structure of Management Information. A hierarchical tree structure for information that underlies Management Information Bases (MIBs), and is used by the SNMP protocol. Defined in RFC 1155 and RFC 1442 (SNMPv2).

## SMON

Switch Network Monitoring Management (MIB) system defined by the IETF document RFC 2613. SMON is a set of MIB extensions for RMON that allows monitoring of switching equipment from a SNMP Manager in greater detail.

## SMT

Station Management. The object class in the 802.11 MIB that provides the necessary support at the station to manage the processes in the station such that the station may work cooperatively as a part of an IEEE 802.11 network. The four branches of the 802.11 MIB are:

- dot11smt—objects related to station management and local configuration
- dot11mac—objects that report/configure on the status of various MAC parameters
- dot11res—objects that describe available resources
- dot11phy—objects that report on various physical items

## SNMP

Simple Network Management Protocol. SNMP is a standard that uses a common software agent to remotely monitor and set network configuration and runtime parameters. SNMP operates in a multivendor environment, and the agent uses MIBs, which define what information is available from any manageable network device. You can also set traps using SNMP, which send notifications of network events to the system log.

## SNTP

Simple Network Time Protocol. SNTP is used to synchronize the system clocks throughout the network. An extension of the Network Time Protocol, SNTP can usually operate with a single server and allows for IPv6 addressing.

## SSH

Secure Shell, sometimes known as Secure Socket Shell, is a UNIX-based command interface and protocol of securely gaining access to a remote computer. With SSH commands, both ends of the client/server connection are authenticated using a digital certificate, and passwords are protected by being encrypted. At Extreme Networks, the SSH is a separate software module, which must be downloaded separately. (SSH is bundled with SSL in the software module.)

## SSID

Service Set Identifier. A 32-character unique identifier attached to the header of packets sent over a Wireless LAN that acts as a password when a wireless device tries to connect to the Basic Service Set (BSSs). Several BSSs can be joined together to form one logical WLAN segment, referred to as an extended service set (ESS). The SSID is used to identify the ESS.

In 802.11 networks, each access point (AP) advertises its presence several times per second by broadcasting beacon frames that carry the ESS name (SSID). Stations discover APs by listening for beacons, or by sending probe frames to search for an AP with a desired SSID. When the station locates an appropriately-named access point, it sends an associate request frame containing the desired SSID. The AP replies with an associate response frame, also containing the SSID. Some APs can be configured to send a zero-length broadcast SSID in beacon frames instead of sending their actual SSID. The AP must return its actual SSID in the probe response.

## SSL

Secure Sockets Layer. SSL is a protocol for transmitting private documents using the Internet. SSL works by using a public key to encrypt data that is transferred over the SSL connection. SSL uses the public-and-private key encryption system, which includes the use of a digital certificate. SSL is used for other applications than SSH, for example, OpenFlow.

## spoofing

Hijacking a server's IP address or hostname so that requests to the server are redirected to another server. Certificate validation is used to detect and prevent this.

## standard mode

Use ESRP standard mode if your network contains switches running ExtremeWare and switches running ExtremeXOS, both participating in ESRP.

## STP

Spanning Tree Protocol. STP is a protocol, defined in IEEE 802.1d, used to eliminate redundant data paths and to increase network efficiency. STP allows a network to have a topology that contains physical loops; it operates in bridges and switches. STP opens certain paths to create a tree topology, thereby preventing packets from looping endlessly on the network. To establish path redundancy, STP creates a tree that spans all of the switches in an extended network, forcing redundant paths into a standby, or blocked, state. STP allows only one active path at a time between any two network devices (this prevents the loops) but establishes the redundant links as a backup if the initial link should fail. If STP costs change, or if one network segment in the STP becomes unreachable, the spanning tree algorithm reconfigures the STP topology and re-establishes the link by activating the standby path.

## STPD

Spanning Tree Domain. An STPD is an STP instance that contains one or more VLANs. The switch can run multiple STPDs, and each STPD has its own root bridge and active path. In the Extreme Networks implementation of STPD, each domain has a carrier VLAN (for carrying STP information) and one or more protected VLANs (for carrying the data).

## STPD mode

The mode of operation for the STPD. The two modes of operation are:

- 802.1d—Compatible with legacy STP and other devices using the IEEE 802.1d standard.
- 802.1w—Compatible with Rapid Spanning Tree (RSTP).

## stub areas

In [OSPF](#), a stub area is connected to only one other area (which can be the backbone area). External route information is not distributed to stub areas.

## subnet mask

See [netmask](#).

## subnets

Portions of networks that share the same common address format. A subnet in a TCP/IP network uses the same first three sets of numbers (such as 198.63.45.xxx), leaving the fourth set to identify devices on the subnet. A subnet can be used to increase the bandwidth on the network by breaking the network up into segments.

## superloop

In [EAPS](#), a superloop occurs if the common link between two EAPS domains goes down and the master nodes of both domains enter the failed state putting their respective secondary ports into the forwarding state. If there is a data VLAN spanning both EAPS domains, this action forms a loop between the EAPS domains.

## SVP

SpectraLink Voice Protocol, a protocol developed by SpectraLink to be implemented on access points to facilitate voice prioritization over an 802.11 wireless LAN that will carry voice packets from SpectraLink wireless telephones.

## syslog

A protocol used for the transmission of [event](#) notification messages across networks, originally developed on the University of California Berkeley Software Distribution (BSD) TCP/IP system implementations, and now embedded in many other operating systems and networked devices. A device generates a messages, a relay receives and forwards the messages, and a collector (a syslog server) receives the messages without relaying them.

Syslog uses the user datagram protocol (UDP) as its underlying transport layer mechanism. The UDP port that has been assigned to syslog is 514. (RFC 3164)

## system health check

The primary responsibility of the system health checker is to monitor and poll error registers. In addition, the system health checker can be enabled to periodically send diagnostic packets. System health check errors are reported to the syslog.

## T

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## TACACS+

Terminal Access Controller Access Control System. Often run on UNIX systems, the TACAS+ protocol provides access control for routers, network access servers, and other networked computing devices via one or more centralized servers. TACACS+ provides separate authentication, authorization, and

accounting services. User passwords are administered in a central database rather than in individual routers, providing easily scalable network security solutions.

## tagged VLAN

You identify packets as belonging to the same tagged VLAN by putting a value into the 12-bit (4 octet) VLAN ID field that is part of the IEEE 802.1Q field of the header. Using this 12-bit field, you can configure up to 4096 individual VLAN addresses (usually some are reserved for system VLANs such as management and default VLANs); these tagged VLANs can exist across multiple devices. The tagged VLAN can be associated with both tagged and untagged ports.

## TCN

Topology change notification. The TCN is a timer used in [RSTP](#) that signals a change in the topology of the network.

## TCP / IP

Transmission Control Protocol. Together with Internet Protocol (IP), TCP is one of the core protocols underlying the Internet. The two protocols are usually referred to as a group, by the term TCP/IP. TCP provides a reliable connection, which means that each end of the session is guaranteed to receive all of the data transmitted by the other end of the connection, in the same order that it was originally transmitted without receiving duplicates.

## TFTP

Trivial File Transfer Protocol. TFTP is an Internet utility used to transfer files, which does not provide security or directory listing. It relies on [UDP](#).

## TKIP

Temporal Key Integrity Protocol (TKIP) is an enhancement to the WEP encryption technique that uses a set of algorithms that rotates the session keys. The protocol's enhanced encryption includes a per-packet key mixing function, a message integrity check (MIC), an extended initialization vector (IV) with sequencing rules, and a re-keying mechanism. The encryption keys are changed (re-keyed) automatically and authenticated between devices after the re-key interval (either a specified period of time, or after a specified number of packets has been transmitted).

## TLS

Transport Layer Security. See [SSL](#).

## ToS / DSCP

ToS (Type of Service) / DSCP (Diffserv Codepoint). The ToS/DSCP box contained in the IP header of a frame is used by applications to indicate the priority and [Quality of Service](#) for each frame. The level of service is determined by a set of service parameters which provide a three way trade-off between low-

delay, high-reliability, and high-throughput. The use of service parameters may increase the cost of service.

## transit node

In **EAPS**, the transit node is a switch, or node, that is not designated a master in the EAPS domain ring.

## truststore

A repository containing trusted certificates, used to validate an incoming certificate. A truststore usually contains CA certificates, which represent certificate authorities that are trusted to sign certificates, and can also contain copies of server or client certificates that are to be trusted when seen.

## TSN

Transition Security Network. A subset of Robust Security Network (RSN), which provides an enhanced security solution for legacy hardware. The Wi-Fi Alliance has adopted a solution called Wireless Protected Access (WPA), based on TSN. RSN and TSN both specify IEEE 802.1x authentication with Extensible Authentication Protocol (EAP).

Time-Sensitive Networking. Standards under development by the Time-Sensitive Networking task group of the IEEE 802.1 working group. There are various characteristics of TSN, including packet preemption, prioritized packet queuing, congestion control, bandwidth reservation, and transmit latency determination used to guarantee that data packets always arrive within a certain predetermined window of time.

## tunnelling

Tunnelling (or encapsulation) is a technology that enables one network to send its data via another network's connections. Tunnelling works by encapsulating packets of a network protocol within packets carried by the second network. The receiving device then decapsulates the packets and forwards them in their original format.

## U

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### U-NII

Unlicensed National Information Infrastructure. Designated to provide short-range, high-speed wireless networking communication at low cost, U-NII consists of three frequency bands of 100 MHz each in the 5 GHz band: 5.15-5.25GHz (for indoor use only), 5.25-5.35 GHz and 5.725-5.825GHz. The three frequency bands were set aside by the FCC in 1997 initially to help schools connect to the Internet without the need for hard wiring. U-NII devices do not require licensing.

## UDP

User Datagram Protocol. This is an efficient but unreliable, connectionless protocol that is layered over IP (as is [TCP](#)). Application programs must supplement the protocol to provide error processing and retransmitting data. UDP is an OSI Layer 4 protocol.

## unicast

A unicast packet is communication between a single sender and a single receiver over a network.

## untagged VLAN

A VLAN remains untagged unless you specifically configure the IEEE 802.1Q value on the packet. A port cannot belong to more than one untagged VLAN using the same protocol.

## USM

User-based security model. In SNMPv3, USM uses the traditional SNMP concept of user names to associate with security levels to support secure network management.

## V

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### virtual router

In the Extreme Networks implementations, virtual routers allow a single physical switch to be split into multiple virtual routers. Each virtual router has its own IP address and maintains a separate logical forwarding table. Each virtual router also serves as a configuration domain. The identity of the virtual router you are working in currently displays in the prompt line of the CLI. The virtual routers discussed in relation to Extreme Networks switches themselves are not the same as the virtual router in VRRP.

In VRRP, the virtual router is identified by a virtual router (VRID) and an IP address. A router running VRRP can participate in one or more virtual routers. The VRRP virtual router spans more than one physical router, which allows multiple routers to provide redundant services to users.

### VEPA

Virtual Ethernet Port Aggregator. This is a Virtual Machine (VM) server feature that works with the ExtremeXOS Direct Attach Feature to support communications between VMs.

### virtual link

In [OSPF](#), when a new area is introduced that does not have a direct physical attachment to the backbone, a virtual link is used. Virtual links are also used to repair a discontinuous backbone area.



## virtual router

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## virtual router MAC address

In VRRP, RFC 2338 assigns a static MAC address for the first five octets of the VRRP virtual router. These octets are set to 00-00-5E-00-01. When you configure the VRRP VRID, the last octet of the MAC address is dynamically assigned the VRID number.

## VLAN

Virtual LAN. The term VLAN is used to refer to a collection of devices that communicate as if they are on the same physical LAN. Any set of ports (including all ports on the switch) is considered a VLAN. LAN segments are not restricted by the hardware that physically connects them. The segments are defined by flexible user groups you create with the CLI.

## VLSM

Variable-length subnet masks. In [OSPF](#), VLSMs provide subnets of different sizes within a single IP block.

## VM

Virtual Machine. A VM is a logical machine that runs on a VM server, which can host multiple VMs.

## VMAN

Virtual MAN. In ExtremeXOS software, VMANs are a bi-directional virtual data connection that creates a private path through the public network. One VMAN is completely isolated from other VMANs; the encapsulation allows the VMAN traffic to be switched over Layer 2 infrastructure. You implement VMAN using an additional 892.1Q tag and a configurable EtherType; this feature is also known as Q-in-Q switching.

## VNS

Virtual Network Services. An Extreme Networks-specific technique that provides a means of mapping wireless networks to a wired topology.

## VoIP

Voice over Internet Protocol is an Internet telephony technique. With VoIP, a voice transmission is cut into multiple packets, takes the most efficient path along the Internet, and is reassembled when it reaches the destination.

## VPN

Virtual private network. A VPN is a private network that uses the public network (Internet) to connect remote sites and users. The VPN uses virtual connections routed through the Internet from a private network to remote sites or users. There are different kinds of VPNs, which all serve this purpose. VPNs also enhance security.

## VR-Control

This virtual router (VR) is part of the embedded system in Extreme Networks switches. VR-Control is used for internal communications between all the modules and subsystems in the switch. It has no ports, and you cannot assign any ports to it. It also cannot be associated with VLANs or routing protocols. (Referred to as VR-1 in earlier ExtremeXOS software versions.)

## VR-Default

This VR is part of the embedded system in Extreme Networks switches. VR-Default is the default VR on the system. All data ports in the switch are assigned to this VR by default; you can add and delete ports from this VR. Likewise, VR-Default contains the default VLAN. Although you cannot delete the default VLAN from VR-Default, you can add and delete any user-created VLANs. One instance of each routing protocol is spawned for this VR, and they cannot be deleted. (Referred to as VR-2 in earlier ExtremeXOS software versions.)

## VR-Mgmt

This VR is part of the embedded system in Extreme Networks switches. VR-Mgmt enables remote management stations to access the switch through Telnet, SSH, or SNMP sessions; and it owns the management port. The management port cannot be deleted from this VR, and no other ports can be added. The Mgmt VLAN is created VR-Mgmt, and it cannot be deleted; you cannot add or delete any other VLANs or any routing protocols to this VR. (Referred to as VR-0 in earlier ExtremeXOS software versions.)

## VRID

In VRRP, the VRID identifies the VRRP virtual router. Each VRRP virtual router is given a unique VRID. All the VRRP routers that participate in the VRRP virtual router are assigned the same VRID.

## VRRP

Virtual Router Redundancy Protocol. VRRP specifies an election protocol that dynamically assigns responsibility for a virtual router to one of the VRRP routers on a LAN. The VRRP router controlling the IP address(es) associated with a virtual router is called the master router, and forwards packets sent to these IP addresses. The election process provides dynamic failover in the forwarding responsibility

should the master router become unavailable. In case the master router fails, the virtual IP address is mapped to a backup router's IP address; this backup becomes the master router. This allows any of the virtual router IP addresses on the LAN to be used as the default first-hop router by end-hosts. The advantage gained from using VRRP is a higher availability default path without requiring configuration of dynamic routing or router discovery protocols on every host. VRRP is defined in RFC 2338.

## VRRP router

Any router that is running VRRP. A VRRP router can participate in one or more virtual routers with VRRP; a VRRP router can be a backup router for one or more master routers.

## VSA

Vendor Specific Attribute. An attribute for a RADIUS server defined by the manufacturer.(compared to the RADIUS attributes defined in the original RADIUS protocol RFC 2865). A VSA attribute is defined in order that it can be returned from the RADIUS server in the Access Granted packet to the Radius Client.

## W

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### walled garden

A restricted subset of network content that wireless devices can access.

### WEP

Wired Equivalent Privacy. A security protocol for wireless local area networks (WLANs) defined in the 802.11b standard. WEP aims to provide security by encrypting data over radio waves so that it is protected as it is transmitted from one end point to another.

### WINS

Windows Internet Naming Service. A system that determines the IP address associated with a particular network computer, called name resolution. WINS supports network client and server computers running Windows and can provide name resolution for other computers with special arrangements. WINS supports dynamic addressing (DHCP) by maintaining a distributed database that is automatically updated with the names of computers currently available and the IP address assigned to each one. DNS is an alternative system for name resolution suitable for network computers with fixed IP addresses.

### WLAN

Wireless Local Area Network.

### WMM

Wi-Fi Multimedia (WMM), a Wi-Fi Alliance certified standard that provides multimedia enhancements for Wi-Fi networks that improve the user experience for audio, video, and voice applications. This

standard is compliant with the IEEE 802.11e [Quality of Service](#) extensions for 802.11 networks. WMM provides prioritized media access by shortening the time between transmitting packets for higher priority traffic. WMM is based on the Enhanced Distributed Channel Access (EDCA) method.

## WPA

Wireless Protected Access, or Wi-Fi Protected Access is a security solution adopted by the Wi-Fi Alliance that adds authentication to WEP's basic encryption. For authentication, WPA specifies IEEE 802.1x authentication with Extensible Authentication Protocol (EAP). For encryption, WPA uses the Temporal Key Integrity Protocol (TKIP) mechanism, which shares a starting key between devices, and then changes their encryption key for every packet. [Certificate Authentication](#) (CA) can also be used. Also part of the encryption mechanism are 802.1x for dynamic key distribution and Message Integrity Check (MIC) a.k.a. Michael.

WPA requires that all computers and devices have WPA software.

## WPA-PSK

Wi-Fi Protected Access with Pre-Shared Key, a special mode of WPA for users without an enterprise authentication server. Instead, for authentication, a Pre-Shared Key is used. The PSK is a shared secret (passphrase) that must be entered in both the AP or router and the WPA clients.

This pre-shared key should be a random sequence of characters at least 20 characters long or hexadecimal digits (numbers 0-9 and letters A-F) at least 24 hexadecimal digits long. After the initial shared secret, the Temporal Key Integrity Protocol (TKIP) handles the encryption and automatic re-keying.

## X

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### XENPAK

Pluggable optics that contain a 10 Gigabit Ethernet module. The XENPAKs conform to the IEEE 802.3ae standard.

### XNV

Extreme Network Virtualization. This ExtremeXOS feature enables the software to support VM port movement, port configuration, and inventory on network switches.