ExtremeXOS® and Switch Engine™ SNMP Traps Reference

for Version 31.6

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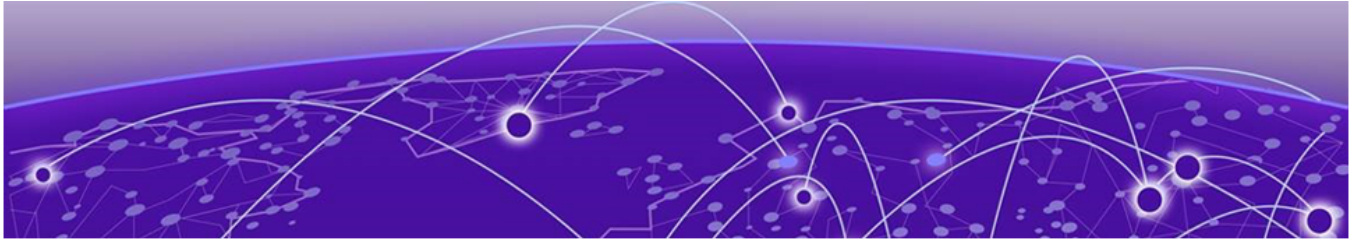

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Preface

Read the following topics to learn about:

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

Text Conventions

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

When a feature, function, or operation pertains to a specific hardware product, the product name is used. When features, functions, and operations are the same across an entire product family, such as ExtremeSwitching switches or SLX routers, the product is referred to as *the switch* or *the router*.

Table 1: Notes and warnings

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

Table 2: Text

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

Table 3: Command syntax

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

Documentation and Training

Find Extreme Networks product information at the following locations:

- Current Product Documentation
- Release Notes
- Hardware and software compatibility for Extreme Networks products
- Extreme Optics Compatibility
- Other resources such as white papers, data sheets, and case studies

Extreme Networks offers product training courses, both online and in person, as well as specialized certifications. For details, visit www.extremenetworks.com/education/.

Help and Support

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

Extreme Portal

Search the GTAC (Global Technical Assistance Center) knowledge base; manage support cases and service contracts; download software; and obtain product licensing, training, and certifications.

The Hub

A forum for Extreme Networks customers to connect with one another, answer questions, and share ideas and feedback. This community is monitored by Extreme Networks employees, but is not intended to replace specific guidance from GTAC.

Call GTAC

For immediate support: (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

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

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

Subscribe to Product Announcements

You can subscribe to email notifications for product and software release announcements, Field Notices, and Vulnerability Notices.

1. Go to The Hub.
2. In the list of categories, expand the **Product Announcements** list.
3. Select a product for which you would like to receive notifications.
4. Select **Subscribe**.
5. To select additional products, return to the **Product Announcements** list and repeat steps 3 and 4.

You can modify your product selections or unsubscribe at any time.

Send Feedback

The Information Development team at Extreme Networks has made every effort to ensure that this document is accurate, complete, and easy to use. We strive to improve our documentation to help you in your work, so we want to hear from you. We welcome all feedback, but we especially want to know about:

- Content errors, or confusing or conflicting information.

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

To send feedback, do either of the following:

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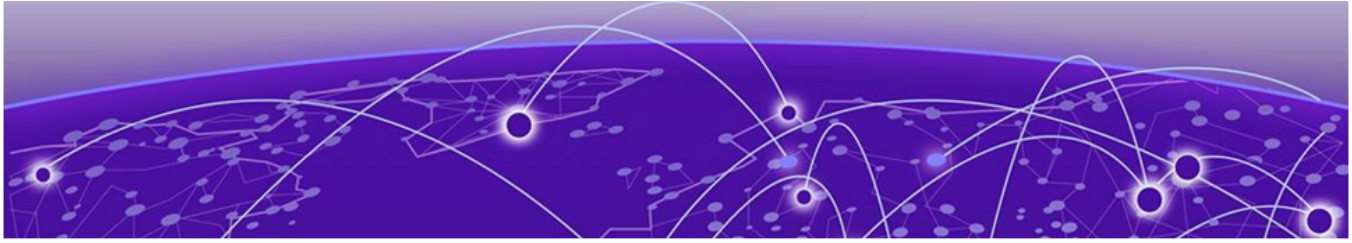
- Email us at documentation@extremenetworks.com.

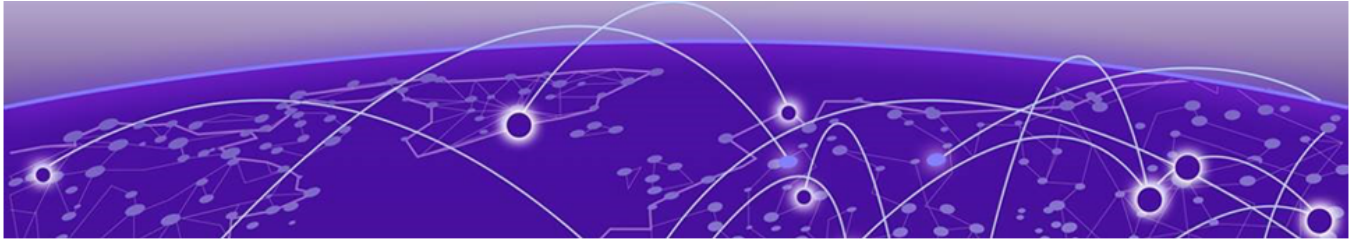
Provide the publication title, part number, and as much detail as possible, including the topic heading and page number if applicable, as well as your suggestions for improvement.



ExtremeXOS Traps

The following sections contain catalogs of trap messages in ExtremeXOS version 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.



EXOS Basic Traps

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The following topics are a catalog of the trap messages associated with basic ExtremeXOS 31.6 features, for example the **`ping`** and **`traceroute`** commands.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

asyncQGrowing

Description

async queue is growing. Logged messages will provide more information related to growing async queue. MIB have limitation to provide real-time information.

Object ID

1.3.6.1.4.1.1916.4.15.0.2

```
Trap    : asyncQGrowing
Objects : {  sysUpTime, sysDescr }
OID     : "1.3.6.1.4.1.1916.4.15.0.2"
object  : sysUpTime                        type : TimeTicks
object  : sysDescr                         type : DisplayString
```

dot1agCfmFaultAlarm

Description

A MEP has a persistent defect condition. A notification (fault alarm) is sent to the management entity with the OID of the MEP that has detected the fault.

Whenever a MEP has a persistent defect, it may or may not generate a Fault Alarm to warn the system administrator of the problem, as controlled by the MEP Fault Notification Generator State Machine and associated Managed Objects. Only the highest-priority defect, as shown in Table 20-1, is reported in the Fault Alarm.

If a defect with a higher priority is raised after a Fault Alarm has been issued, another Fault Alarm is issued.

The management entity receiving the notification can identify the system from the network source address of the notification, and can identify the MEP reporting the defect by the indices in the OID of the dot1agCfmMepHighestPrDefect variable in the notification:

dot1agCfmMdIndex

Also the index of the MEP's Maintenance Domain table entry (dot1agCfmMdTable).

dot1agCfmMaIndex

Also an index (with the MD table index) of the MEP's Maintenance Association network table entry (dot1agCfmMaNetTable), and (with the MD table index and component ID) of the MEP's MA component table entry (dot1agCfmMaCompTable).

dot1agCfmMepIdentifier

MEP Identifier and final index into the MEP table (dot1agCfmMepTable).

Object ID

1.3.111.2.802.1.1.8.0.1

```
Trap    : dot1agCfmFaultAlarm
Objects : {  dot1agCfmMepHighestPrDefect }
OID     : "1.3.111.2.802.1.1.8.0.1"
object  : dot1agCfmMepHighestPrDefect      type : Dot1agCfmHighestDefectPri
```

downloadImageTrap

Description

This notification indicates the status of the last/current download operation.

Object ID

1.3.6.1.4.1.1916.1.1.1.45.2.1

```
Trap    : downloadImageTrap
Objects : {  extremeDownloadImageSlotId, extremeDownloadImageStatus,
extremeDownloadImageFilename, extremeDownloadImagePartition,
extremeDownloadImageStartTime }
OID     : "1.3.6.1.4.1.1916.1.1.1.45.2.1"
object  : extremeDownloadImageStartTime    type : DisplayString
object  : extremeDownloadImagePartition    type : INTEGER
object  : extremeDownloadImageFilename     type : DisplayString
object  : extremeDownloadImageStatus       type : INTEGER
object  : extremeDownloadImageSlotId       type : INTEGER
```

installImageTrap

Description

This notification indicates the status of the last/current install operation.

Object ID

1.3.6.1.4.1.1916.1.1.1.45.2.2

```
Trap    : installImageTrap
Objects : {  extremeInstallImageSlotId, extremeInstallImageStatus,
extremeInstallImageFilename, extremeInstallImagePartition, extremeInstallImageStartTime }
OID     : "1.3.6.1.4.1.1916.1.1.1.45.2.2"
object  : extremeInstallImageStartTime     type : DisplayString
object  : extremeInstallImagePartition     type : INTEGER
object  : extremeInstallImageFilename      type : DisplayString
object  : extremeInstallImageStatus        type : INTEGER
object  : extremeInstallImageSlotId        type : INTEGER
```

linkDown

Description

A linkDown trap signifies that the SNMP entity, acting in an agent role, has detected that the ifOperStatus object for one of its communication links is about to enter the down state from some other state (but not from the notPresent state). This other state is indicated by the included value of ifOperStatus.

Object ID

1.3.6.1.6.3.1.1.5.3

```
Trap    : linkDown
Objects : {  ifIndex, ifAdminStatus, ifOperStatus }
OID     : "1.3.6.1.6.3.1.1.5.3"
object  : ifIndex                          type : INTEGER
object  : ifAdminStatus                    type : INTEGER
object  : ifOperStatus                     type : INTEGER
```

linkUp

Description

A linkUp trap signifies that the SNMP entity, acting in an agent role, has detected that the ifOperStatus object for one of its communication links left the down state and transitioned into some other state (but not into the notPresent state). This other state is indicated by the included value of ifOperStatus.

Object ID

1.3.6.1.6.3.1.1.5.4

```
Trap    : linkUp
Objects : {  ifIndex, ifAdminStatus, ifOperStatus }
OID     : "1.3.6.1.6.3.1.1.5.4"
object  : ifIndex                          type : INTEGER
object  : ifAdminStatus                    type : INTEGER
object  : ifOperStatus                     type : INTEGER
```

mefSoamAvailabilityChangeAlarm

Description

An mefSoamAvailabilityChangeAlarm notification is sent when the state of mefSoamLmMeasuredStatsAvailForwardStatus or mefSoamLmMeasuredStatsAvailBackwardStatus changes.

The management entity that receives the notification can identify the system from the network source address of the notification, and can identify the PM session reporting the change by the indices in the OID mefSoamLmMeasuredStatsAvailForwardLastTransitionTime, including dot1agCfmMdIndex, dot1agCfmMaIndex, dot1agCfmMepIdentifier, and mefSoamLmCfgIndex.

An agent is not to generate more than one mefSoamAvailabilityChangeAlarm 'notification-event' in a given time interval per PM session as specified by the mefSoamPmNotificationCfgAlarmInterval. A 'notification-event' is the transmission of a single notification to a list of notification destinations.

If additional availability state changes occur within the mefSoamPmNotificationCfgAlarmInterval period, then notification generation for these changes are suppressed by the agent until the current alarm interval expires. At the end of an alarm interval period, one notification-event is generated if any availability state changes occurred since the start of the alarm interval period. In such a case, another alarm interval period is started right away.

Object ID

1.3.6.1.4.1.15007.1.3.0.1

```
Trap    : mefSoamAvailabilityChangeAlarm
Objects : {  mefSoamPmNotificationObjDateAndTime,
mefSoamLmMeasuredStatsAvailForwardStatus, mefSoamLmMeasuredStatsAvailBackwardStatus,
mefSoamLmMeasuredStatsAvailForwardLastTransitionTime,
mefSoamLmMeasuredStatsAvailBackwardLastTransitionTime,
mefSoamLmCurrentAvailStatsForwardAvailable, mefSoamLmCurrentAvailStatsForwardUnavailable,
mefSoamLmCurrentAvailStatsBackwardAvailable,
mefSoamLmCurrentAvailStatsBackwardUnavailable, mefSoamPmNotificationObjDestinationMep,
mefSoamPmNotificationObjPriority }
OID     : "1.3.6.1.4.1.15007.1.3.0.1"
object  : mefSoamPmNotificationObjPriority                      type : Unsigned32
object  : mefSoamPmNotificationObjDestinationMep                type : MacAddress
object  : mefSoamLmCurrentAvailStatsBackwardUnavailable         type : Gauge32
object  : mefSoamLmCurrentAvailStatsBackwardAvailable           type : Gauge32
object  : mefSoamLmCurrentAvailStatsForwardUnavailable          type : Gauge32
object  : mefSoamLmCurrentAvailStatsForwardAvailable            type : Gauge32
object  : mefSoamLmMeasuredStatsAvailBackwardLastTransitionTime type : DateAndTime
object  : mefSoamLmMeasuredStatsAvailForwardLastTransitionTime  type : DateAndTime
object  : mefSoamLmMeasuredStatsAvailBackwardStatus             type :
MefSoamTcAvailabilityType
object  : mefSoamLmMeasuredStatsAvailForwardStatus              type :
MefSoamTcAvailabilityType
object  : mefSoamPmNotificationObjDateAndTime                   type : DateAndTime
```

mefSoamDmSessionStartStopAlarm

Description

An mefSoamDmSessionStartStopAlarm notification is sent when the state of mefSoamDmCfgSessionStatus changes.

The management entity that receives the notification can identify the system from the network source address of the notification, and can identify the individual PM session reporting the start/stop by the indices in the OID mefSoamDmCfgSessionStatus, including dot1agCfmMdIndex, dot1agCfmMaIndex, dot1agCfmMepIdentifier, and mefSoamDmCfgIndex.

An agent is not to generate more than one mefSoamDmSessionStartStopAlarm 'notification-event' in a given time interval per DM session as specified by mefSoamPmNotificationCfgAlarmInterval. A 'notification-event' is the transmission of a single notification to a list of notification destinations.

If additional operational state changes occur within the mefSoamPmNotificationCfgAlarmInterval period, then notification generation for these changes are suppressed by the agent until the current alarm interval expires. At the end of an alarm interval period, one notification-event is generated if any operational state changes occurred since the start of the alarm interval period. In such a case, another alarm interval period is started right away.

Object ID

1.3.6.1.4.1.15007.1.3.0.3

```
Trap    : mefSoamDmSessionStartStopAlarm
Objects : {  mefSoamDmCfgSessionStatus, mefSoamPmNotificationObjDateAndTime,
mefSoamPmNotificationObjDestinationMep }
OID     : "1.3.6.1.4.1.15007.1.3.0.3"
object  : mefSoamPmNotificationObjDestinationMep type : MacAddress
object  : mefSoamPmNotificationObjDateAndTime    type : DateAndTime
object  : mefSoamDmCfgSessionStatus              type : MefSoamTcStatusType
```

mefSoamLMSessionStartStopAlarm

Description

An mefSoamLmSessionStartStopAlarm notification is sent when the state of mefSoamLmCfgSessionStatus changes.

The management entity that receives the notification can identify the system from the network source address of the notification, and can identify the individual PM session reporting the start/stop by the indices in the OID mefSoamLmCfgSessionStatus, including dot1agCfmMdIndex, dot1agCfmMaIndex, dot1agCfmMepIdentifier, and mefSoamLmCfgIndex.

An agent is not to generate more than one mefSoamLmSessionStartStopAlarm 'notification-event' in a given time interval per LM session as specified by the mefSoamPmNotificationCfgAlarmInterval. A 'notification-event' is the transmission of a single notification to a list of notification destinations.

If additional operational state changes occur within the mefSoamPmNotificationCfgAlarmInterval period, then notification generation for these changes are be suppressed by the agent until the current alarm interval expires. At the end of an alarm interval period, one notification-event is generated if any operational state changes occurred since the start of the alarm interval period. In such a case, another alarm interval period is started right away.

Object ID

1.3.6.1.4.1.15007.1.3.0.2

```
Trap    : mefSoamLmSessionStartStopAlarm
Objects : {  mefSoamLmCfgSessionStatus, mefSoamPmNotificationObjDateAndTime,
mefSoamPmNotificationObjDestinationMep }
OID     : "1.3.6.1.4.1.15007.1.3.0.2"
object  : mefSoamPmNotificationObjDestinationMep type : MacAddress
object  : mefSoamPmNotificationObjDateAndTime    type : DateAndTime
object  : mefSoamLmCfgSessionStatus              type : MefSoamTcStatusType
```

mefSoamPmThresholdCrossingAlarm

Description

An mefSoamPmThresholdCrossingAlarm notification is sent if the following conditions are met for a particular type.

For an aboveAlarm five conditions need to be met:

a) measurement of the parameter is enabled via mefSoamLmCfgMeasurementEnable for a LM crossing or mefSoamDmCfgMeasurementEnable for a DM crossing; and

b) the parameter threshold is configured in the mefSoamLmThresholdCfgTable or mefSoamDmThresholdCfgTable; and

c) the threshold crossing type of bPmThresholdAboveAlarm is enabled; and

d) the measured value of the parameter exceeds the value configured in the mefSoamLmThresholdCfgTable for a LM crossing entry or mefSoamDmThresholdCfgTable for a DM crossing entry for a type of bPmThresholdAboveAlarm; and

e) no previous mefSoamPmThresholdCrossingAlarm notifications with type aboveAlarm have been sent relating to the same threshold in the mefSoamLmThresholdCfgTable or mefSoamDmThresholdCfgTable and the same parameter, during this Measurement Interval.

For a setAlarm five conditions need to be met:

a) measurement of the parameter is enabled via mefSoamLmCfgMeasurementEnable for a LM crossing or mefSoamDmCfgMeasurementEnable for a DM crossing; and

b) the parameter threshold is configured in the mefSoamLmThresholdCfgTable or mefSoamDmThresholdCfgTable; and

c) the threshold crossing type of bPmThresholdSetClearAlarm is enabled; and

d) the measured value of the parameter exceeds the value configured in the mefSoamLmThresholdCfgTable for a LM crossing entry or mefSoamDmThresholdCfgTable for a DM crossing entry for a type of bPmThresholdSetClearAlarm for the Measurement Interval; and

e) the previous measured value did not exceed the value configured in the mefSoamLmThresholdCfgTable for a LM crossing entry or mefSoamDmThresholdCfgTable for a DM crossing entry for a type of bPmThresholdSetClearAlarm.

For a clearAlarm five conditions need to be met:

a) measurement of the parameter is enabled via mefSoamLmCfgMeasurementEnable for a LM crossing or mefSoamDmCfgMeasurementEnable for a DM crossing; and

b) the parameter threshold is configured in the mefSoamLmThresholdCfgTable or mefSoamDmThresholdCfgTable; and

c) the threshold crossing type of bPmThresholdSetClearAlarm is enabled; and

d) the measured value of the parameter did not exceed the value configured in the mefSoamLmThresholdCfgTable for a LM crossing entry or mefSoamDmThresholdCfgTable for a DM crossing entry for a type of bPmThresholdSetClearAlarm for the Measurement Interval; and

e) the previous measured value did exceed the value configured in the mefSoamLmThresholdCfgTable for a LM crossing entry or mefSoamDmThresholdCfgTable for a DM crossing entry for a type of bPmThresholdSetClearAlarm.

In the case of thresholds applied to a maximum or average measurement counter, the previous measured value is the value of the counter at the end of the preceding Measurement Interval. In the case of thresholds applied to the last measured value, it is the previous measured value.

The management entity that receives the notification can identify the system from the network source address of the notification, and can identify the LM or DM session reporting the threshold crossing by the indices in the mefSoamPmNotificationCfgThresholdId object, including dot1agCfmMdIndex, dot1agCfmMaIndex, dot1agCfmMepIdentifier, and the mefSoamLmCfgIndex or mefSoamDmCfgIndex.

An agent is not to generate more than one mefSoamLmThresholdCrossingAlarm 'notification-event' of a given type per LM or DM session as specified by mefSoamPmNotificationCfgAlarmInterval. A 'notification-event' is the transmission of a single notification to a list of notification destinations.

If additional threshold crossing events occur within the mefSoamPmNotificationCfgAlarmInterval period, then notification generation for these changes are suppressed by the agent until the current alarm interval expires. At the end of an alarm interval period, one notification-event is generated if any threshold crossing events occurred since the start of the alarm interval period. In such a case, another alarm interval period is started right away.

Object ID

1.3.6.1.4.1.15007.1.3.0.4

```
Trap    : mefSoamPmThresholdCrossingAlarm
Objects : {  mefSoamPmNotificationObjCrossingType, mefSoamPmNotificationObjThresholdId,
mefSoamPmNotificationObjThresholdConfig, mefSoamPmNotificationObjThresholdValue,
mefSoamPmNotificationObjSuspect, mefSoamPmNotificationObjDateAndTime,
mefSoamPmNotificationObjDestinationMep }
OID     : "1.3.6.1.4.1.15007.1.3.0.4"
object  : mefSoamPmNotificationObjDestinationMep  type : MacAddress
object  : mefSoamPmNotificationObjDateAndTime     type : DateAndTime
object  : mefSoamPmNotificationObjSuspect         type : TruthValue
object  : mefSoamPmNotificationObjThresholdValue  type : Unsigned32
object  : mefSoamPmNotificationObjThresholdConfig type : Unsigned32
object  : mefSoamPmNotificationObjThresholdId     type : ObjectID
object  : mefSoamPmNotificationObjCrossingType    type : INTEGER
```

noMoreMemory

Description

Memory full, no more momory. System memory is depleted.

Object ID

1.3.6.1.4.1.1916.4.15.0.1

```
Trap    : noMoreMemory
Objects : {  sysUpTime, sysDescr }
OID     : "1.3.6.1.4.1.1916.4.15.0.1"
object  : sysUpTime                        type : TimeTicks
object  : sysDescr                         type : DisplayString
```

pimNeighborLoss

Description

A pimNeighborLoss trap signifies the loss of an adjacency with a neighbor. This trap should be generated when the neighbor timer expires, and the router has no other neighbors on the same interface with a lower IP address than itself.

Object ID

1.3.6.1.3.61.1.0.1

```
Trap    : pimNeighborLoss
Objects : {  pimNeighborIfIndex }
OID     : "1.3.6.1.3.61.1.0.1"
object  : pimNeighborIfIndex              type : InterfaceIndex
```

pingProbeFailed

Description

Generated when a probe failure is detected, when the corresponding pingCtlTrapGeneration object is set to probeFailure(0), subject to the value of pingCtlTrapProbeFailureFilter. The object pingCtlTrapProbeFailureFilter can be used to specify the number of consecutive probe failures that are required before this notification can be generated.

Object ID

1.3.6.1.2.1.80.0.1

```
Trap    : pingProbeFailed
Objects : {  pingCtlTargetAddressType, pingCtlTargetAddress, pingResultsOperStatus,
pingResultsIpTargetAddressType, pingResultsIpTargetAddress, pingResultsMinRtt,
pingResultsMaxRtt, pingResultsAverageRtt, pingResultsProbeResponses,
pingResultsSentProbes, pingResultsRttSumOfSquares, pingResultsLastGoodProbe }
OID     : "1.3.6.1.2.1.80.0.1"
object  : pingResultsLastGoodProbe         type : DateAndTime
object  : pingResultsRttSumOfSquares       type : Unsigned32
object  : pingResultsSentProbes            type : Unsigned32
object  : pingResultsProbeResponses        type : Unsigned32
object  : pingResultsAverageRtt            type : Unsigned32
object  : pingResultsMaxRtt                type : Unsigned32
object  : pingResultsMinRtt                type : Unsigned32
object  : pingResultsIpTargetAddress       type : InetAddress
object  : pingResultsIpTargetAddressType   type : InetAddressType
object  : pingResultsOperStatus            type : INTEGER
object  : pingCtlTargetAddress             type : InetAddress
object  : pingCtlTargetAddressType         type : InetAddressType
```

pingTestCompleted

Description

Generated at the completion of a ping test when the corresponding pingCtlTrapGeneration object has the testCompletion(2) bit set.

Object ID

1.3.6.1.2.1.80.0.3

```
Trap    : pingTestCompleted
Objects : {  pingCtlTargetAddressType, pingCtlTargetAddress, pingResultsOperStatus,
pingResultsIpTargetAddressType, pingResultsIpTargetAddress, pingResultsMinRtt,
pingResultsMaxRtt, pingResultsAverageRtt, pingResultsProbeResponses,
pingResultsSentProbes, pingResultsRttSumOfSquares, pingResultsLastGoodProbe }
OID     : "1.3.6.1.2.1.80.0.3"
object  : pingResultsLastGoodProbe         type : DateAndTime
object  : pingResultsRttSumOfSquares       type : Unsigned32
object  : pingResultsSentProbes            type : Unsigned32
object  : pingResultsProbeResponses        type : Unsigned32
object  : pingResultsAverageRtt            type : Unsigned32
object  : pingResultsMaxRtt                type : Unsigned32
object  : pingResultsMinRtt                type : Unsigned32
object  : pingResultsIpTargetAddress       type : InetAddress
object  : pingResultsIpTargetAddressType   type : InetAddressType
object  : pingResultsOperStatus            type : INTEGER
object  : pingCtlTargetAddress             type : InetAddress
object  : pingCtlTargetAddressType         type : InetAddressType
```

pingTestFailed

Description

Generated when a ping test is determined to have failed, when the corresponding pingCtlTrapGeneration object is set to testFailure(1). In this instance, pingCtlTrapTestFailureFilter should specify the number of probes in a test required to have failed in order to consider the test failed.

Object ID

1.3.6.1.2.1.80.0.2

```
Trap    : pingTestFailed
Objects : {  pingCtlTargetAddressType, pingCtlTargetAddress, pingResultsOperStatus,
pingResultsIpTargetAddressType, pingResultsIpTargetAddress, pingResultsMinRtt,
pingResultsMaxRtt, pingResultsAverageRtt, pingResultsProbeResponses,
pingResultsSentProbes, pingResultsRttSumOfSquares, pingResultsLastGoodProbe }
OID     : "1.3.6.1.2.1.80.0.2"
object  : pingResultsLastGoodProbe         type : DateAndTime
object  : pingResultsRttSumOfSquares       type : Unsigned32
object  : pingResultsSentProbes            type : Unsigned32
object  : pingResultsProbeResponses        type : Unsigned32
object  : pingResultsAverageRtt            type : Unsigned32
object  : pingResultsMaxRtt                type : Unsigned32
object  : pingResultsMinRtt                type : Unsigned32
object  : pingResultsIpTargetAddress       type : InetAddress
object  : pingResultsIpTargetAddressType   type : InetAddressType
object  : pingResultsOperStatus            type : INTEGER
object  : pingCtlTargetAddress             type : InetAddress
object  : pingCtlTargetAddressType         type : InetAddressType
```

traceRoutePathChange

Description

The path to a target has changed.

Object ID

1.3.6.1.2.1.81.0.1

```
Trap    : traceRoutePathChange
Objects : {  traceRouteCtlTargetAddressType, traceRouteCtlTargetAddress,
traceRouteResultsIpTgtAddrType, traceRouteResultsIpTgtAddr }
OID     : "1.3.6.1.2.1.81.0.1"
object  : traceRouteResultsIpTgtAddr       type : InetAddress
object  : traceRouteResultsIpTgtAddrType   type : InetAddressType
object  : traceRouteCtlTargetAddress       type : InetAddress
object  : traceRouteCtlTargetAddressType   type : InetAddressType
```

traceRouteTestCompleted

Description

The path to a target has just been determined.

Object ID

1.3.6.1.2.1.81.0.3

```
Trap    : traceRouteTestCompleted
Objects : {  traceRouteCtlTargetAddressType, traceRouteCtlTargetAddress,
traceRouteResultsIpTgtAddrType, traceRouteResultsIpTgtAddr }
OID     : "1.3.6.1.2.1.81.0.3"
object  : traceRouteResultsIpTgtAddr       type : InetAddress
object  : traceRouteResultsIpTgtAddrType   type : InetAddressType
object  : traceRouteCtlTargetAddress       type : InetAddress
object  : traceRouteCtlTargetAddressType   type : InetAddressType
```

traceRouteTestFailed

Description

Could not determine the path to a target.

Object ID

1.3.6.1.2.1.81.0.2

```
Trap    : traceRouteTestFailed
Objects : {  traceRouteCtlTargetAddressType, traceRouteCtlTargetAddress,
traceRouteResultsIpTgtAddrType, traceRouteResultsIpTgtAddr }
OID     : "1.3.6.1.2.1.81.0.2"
object  : traceRouteResultsIpTgtAddr       type : InetAddress
object  : traceRouteResultsIpTgtAddrType   type : InetAddressType
object  : traceRouteCtlTargetAddress       type : InetAddress
object  : traceRouteCtlTargetAddressType   type : InetAddressType
```

upmProfileEventExecution

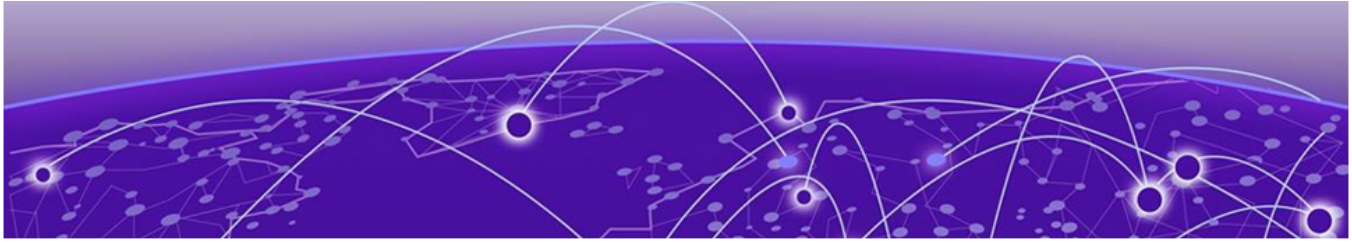
Description

This trap will be generated, when a profile is executed.

Object ID

1.3.6.1.4.1.1916.1.35.1.1

```
Trap    : upmProfileEventExecution
Objects : {  upmProfileName, upmExecutionId, upmEventType, upmExecutionStatus, upmPort,
upmProfileExecVars, upmTimerName }
OID     : "1.3.6.1.4.1.1916.1.35.1.1"
object  : upmTimerName                    type : DisplayString
object  : upmProfileExecVars              type : DisplayString
object  : upmPort                         type : INTEGER
object  : upmExecutionStatus              type : INTEGER
object  : upmEventType                    type : INTEGER
object  : upmExecutionId                  type : Unsigned32
object  : upmProfileName                  type : DisplayString
```



BGP Traps

bgpM2BackwardTransition on page 31
bgpM2Established on page 32

The following topics are a catalog of the Border Gateway Protocol (BGP) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

bgpM2BackwardTransition

Description

The BGPBackwardTransition Event is generated when the BGP FSM moves from a higher numbered state to a lower numbered state.

Object ID

1.3.6.1.2.1.1000.1.0.2

```
Trap    : bgpM2BackwardTransition
Objects : {  bgpM2PeerLocalAddrType, bgpM2PeerLocalAddr, bgpM2PeerRemoteAddrType,
bgpM2PeerRemoteAddr, bgpM2PeerLastErrorReceived, bgpM2PeerLastErrorReceivedText,
bgpM2PeerState }
OID     : "1.3.6.1.2.1.1000.1.0.2"
object  : bgpM2PeerLocalAddrType           type : InetAddressType
object  : bgpM2PeerLocalAddr               type : InetAddress
object  : bgpM2PeerRemoteAddrType          type : InetAddressType
object  : bgpM2PeerRemoteAddr              type : InetAddress
object  : bgpM2PeerLastErrorReceived       type : OctetString
object  : bgpM2PeerLastErrorReceivedText   type : SnmpAdminString
object  : bgpM2PeerState                   type : INTEGER
```

bgpM2Established

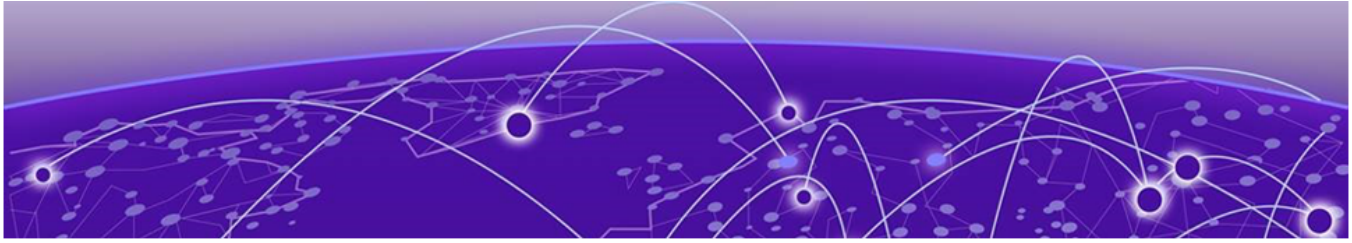
Description

The BGP Established event is generated when the BGP FSM enters the ESTABLISHED state.

Object ID

1.3.6.1.2.1.1000.1.0.1

```
Trap    : bgpM2Established
Objects : {  bgpM2PeerLocalAddrType, bgpM2PeerLocalAddr, bgpM2PeerRemoteAddrType,
bgpM2PeerRemoteAddr, bgpM2PeerLastErrorReceived, bgpM2PeerState }
OID     : "1.3.6.1.2.1.1000.1.0.1"
object  : bgpM2PeerLocalAddrType           type : InetAddressType
object  : bgpM2PeerLocalAddr               type : InetAddress
object  : bgpM2PeerRemoteAddrType          type : InetAddressType
object  : bgpM2PeerRemoteAddr              type : InetAddress
object  : bgpM2PeerLastErrorReceived       type : OctetString
object  : bgpM2PeerState                   type : INTEGER
```



Configuration Management Traps

cfgMgmtConfigChangeTrap on page 34
cfgMgmtConfigSaveTrap on page 35

The following topics are a catalog of the Configuration Management (CfgMgmt) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

cfgMgmtConfigChangeTrap

Description

This notification contain details of the last change configuration operation for the running configure.

Object ID

1.3.6.1.4.1.1916.1.42.10.0.2

```
Trap    : cfgMgmtConfigChangeTrap
Objects : {  extremeLastChangeConfigTime, extremeLastChangeConfigFileName,
extremeLastChangeConfigSource }
OID     : "1.3.6.1.4.1.1916.1.42.10.0.2"
object  : extremeLastChangeConfigTime      type : DisplayString
object  : extremeLastChangeConfigFileName  type : DisplayString
object  : extremeLastChangeConfigSource    type : INTEGER
```

cfgMgmtConfigSaveTrap

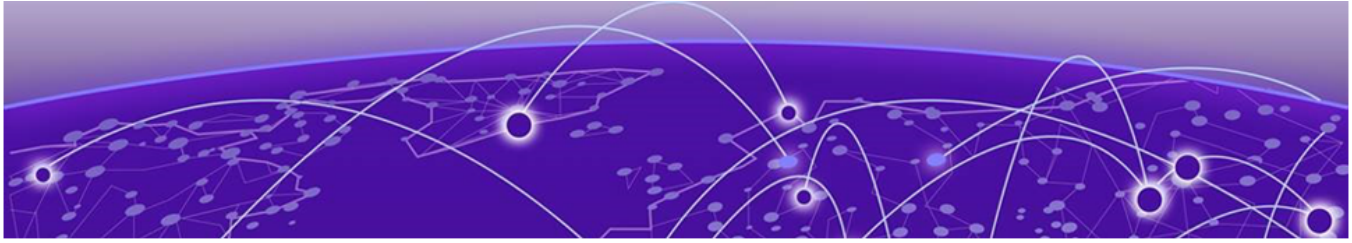
Description

This notification indicates that the running configuration of the managed system has updated the NVRAM storage of the current configuration.

Object ID

1.3.6.1.4.1.1916.1.42.10.0.1

```
Trap    : cfgMgmtConfigSaveTrap
Objects : {  extremeLastSaveConfigTime, extremeLastSaveConfigFileName,
extremeLastSaveConfigSource }
OID     : "1.3.6.1.4.1.1916.1.42.10.0.1"
object  : extremeLastSaveConfigTime        type : DisplayString
object  : extremeLastSaveConfigFileName    type : DisplayString
object  : extremeLastSaveConfigSource      type : INTEGER
```



ERPS Traps

extremeErpsFailureTrap on page 37
extremeErpsStateChangeTrap on page 38

The following topics are a catalog of the Ethernet Ring Protection Switching (ERPS) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

extremeErpsFailureTrap

Description

This trap is generated when there is any failure on a ring.

Object ID

1.3.6.1.4.1.1916.1.46.0.0.2

```
Trap    : extremeErpsFailureTrap
Objects : {  extremeErpsRingName, extremeErpsTypeOfFailure }
OID     : "1.3.6.1.4.1.1916.1.46.0.0.2"
object  : extremeErpsRingName              type : DisplayString
object  : extremeErpsTypeOfFailure         type : DisplayString
```

extremeErpsStateChangeTrap

Description

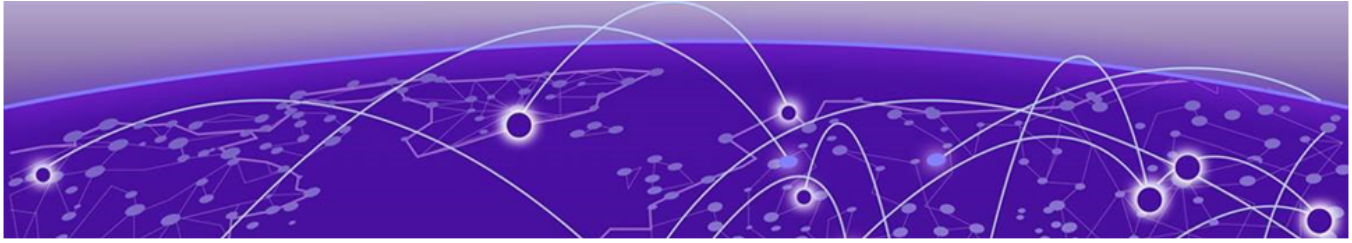
This trap is generated on the following events:

- Local SF is received for the ring.
- Local Clear SF is received for the ring.
- Remote failure is detected on this ring.
- Remote failure is cleared on this ring.
- Force Switch is issued for a ring (ForcedSwitch).
- Manual Switch is issued for a ring (ManualSwitch).

Object ID

1.3.6.1.4.1.1916.1.46.0.0.1

```
Trap    : extremeErpsStateChangeTrap
Objects : {  extremeErpsRingName, extremeErpsRingSemState, extremeErpsRingNodeStatus }
OID     : "1.3.6.1.4.1.1916.1.46.0.0.1"
object  : extremeErpsRingName              type : DisplayString
object  : extremeErpsRingSemState          type : INTEGER
object  : extremeErpsRingNodeStatus        type : Bits
```



Enterasys Traps

etsysCosFloodLimitExceededNotification on page 40
etsysCosIrlExceededNotification on page 41
etsysCosOrlExceededNotification on page 42
etsysCosUserIrlrsLimitExceededNotification on page 43
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etsysMACLockingMACThreshold on page 48
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etsysMultiAuthMaxNumUsersReached on page 51
etsysMultiAuthModuleMaxNumUsersReached on page 52
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The following topics are a catalog of the Enterasys (etsys) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

etsysCosFloodLimitExceededNotification

Description

This notification indicates an inbound flood limiter has been exceeded.

Object ID

1.3.6.1.4.1.5624.1.2.55.1.0.3

```
Trap    : etsysCosFloodLimitExceededNotification
Objects : {  ifName, etsysCosFloodCtrlViolation }
OID     : "1.3.6.1.4.1.5624.1.2.55.1.0.3"
object  : ifName                          type : DisplayString
object  : etsysCosFloodCtrlViolation      type : TruthValue
```

etsysCosIrlExceededNotification

Description

This notification indicates an inbound limiter has been exceeded.

Object ID

1.3.6.1.4.1.5624.1.2.55.1.0.1

```
Trap    : etsysCosIrlExceededNotification
Objects : {  ifName, etsysCosIrlViolation }
OID     : "1.3.6.1.4.1.5624.1.2.55.1.0.1"
object  : ifName                          type : DisplayString
object  : etsysCosIrlViolation            type : TruthValue
```

etsysCosOrlExceededNotification

Description

This notification indicates an outbound limiter has been exceeded.

Object ID

1.3.6.1.4.1.5624.1.2.55.1.0.2

```
Trap    : etsysCosOrlExceededNotification
Objects : {  ifName, etsysCosOrlViolation }
OID     : "1.3.6.1.4.1.5624.1.2.55.1.0.2"
object  : ifName                          type : DisplayString
object  : etsysCosOrlViolation            type : TruthValue
```

etsysCosUserIrlrsLimitExceededNotification

Description

This notification indicates an inbound user rate limiter/shaper has been exceeded.

Object ID

1.3.6.1.4.1.5624.1.2.55.1.0.4

```
Trap    : etsysCosUserIrlrsLimitExceededNotification
Objects : {  ifName, etsysCosUserIrlrsViolation }
OID     : "1.3.6.1.4.1.5624.1.2.55.1.0.4"
object  : ifName                          type : DisplayString
object  : etsysCosUserIrlrsViolation      type : TruthValue
```

etsysCosUserOrlrsLimitExceededNotification

Description

This notification indicates an outbound user rate limiter/shaper has been exceeded.

Object ID

1.3.6.1.4.1.5624.1.2.55.1.0.5

```
Trap    : etsysCosUserOrlrsLimitExceededNotification
Objects : {  ifName, etsysCosUserOrlrsViolation }
OID     : "1.3.6.1.4.1.5624.1.2.55.1.0.5"
object  : ifName                          type : DisplayString
object  : etsysCosUserOrlrsViolation      type : TruthValue
```

etsysEntitySfpSensorStateChng

Description

An etsysEntitySfpSensorStateChng trap signifies that the SNMP entity, acting in an agent role, has detected the transition of etsysEntitySfpSensorState from one enumerated state to another. It is RECOMMENDED that devices implementing this trap optionally varbind the entPhysicalName and entPhysicalDescr objects for this sensor.

Object ID

1.3.6.1.4.1.5624.1.2.85.1.0.2

```
Trap    : etsysEntitySfpSensorStateChng
Objects : {  etsysEntitySfpSensorState, entPhySensorOperStatus, entPhySensorScale,
entPhySensorPrecision, entPhySensorValue, entPhySensorUnitsDisplay }
OID     : "1.3.6.1.4.1.5624.1.2.85.1.0.2"
object  : etsysEntitySfpSensorState        type : INTEGER
object  : entPhySensorOperStatus           type : EntitySensorStatus
object  : entPhySensorScale                type : EntitySensorDataScale
object  : entPhySensorPrecision            type : EntitySensorPrecision
object  : entPhySensorValue                type : EntitySensorValue
object  : entPhySensorUnitsDisplay         type : SnmpAdminString
```

etsysEntityTempSensorStateChng

Description

An etsysEntityTempSensorStateChng trap signifies that the SNMP entity, acting in an agent role, has detected the transition of etsysEntityTempSensorState from one enumerated state to another. It is RECOMMENDED that devices implementing this trap optionally varbind the entPhysicalName and entPhysicalDescr objects for this sensor.

Object ID

1.3.6.1.4.1.5624.1.2.85.1.0.1

```
Trap    : etsysEntityTempSensorStateChng
Objects : {  etsysEntityTempSensorState, entPhySensorOperStatus, entPhySensorScale,
entPhySensorPrecision, entPhySensorValue, entPhySensorUnitsDisplay }
OID     : "1.3.6.1.4.1.5624.1.2.85.1.0.1"
object  : etsysEntityTempSensorState       type : INTEGER
object  : entPhySensorOperStatus           type : EntitySensorStatus
object  : entPhySensorScale                type : EntitySensorDataScale
object  : entPhySensorPrecision            type : EntitySensorPrecision
object  : entPhySensorValue                type : EntitySensorValue
object  : entPhySensorUnitsDisplay         type : SnmpAdminString
```

etsysLinkFlapViolation

Description

If the Link Flap feature is globally enabled and specifically enabled for this interface, then this trap is sent when a link state transition is detected which accrues to a sum of transitions exceeding the value etsysLinkFlapIntfCountThreshold over the time period etsysLinkFlapIntfTimeInterval.

Object ID

1.3.6.1.4.1.5624.1.2.52.1.0.1

```
Trap    : etsysLinkFlapViolation
Objects : {  ifName, etsysLinkFlapIntfOperStatus }
OID     : "1.3.6.1.4.1.5624.1.2.52.1.0.1"
object  : ifName                          type : DisplayString
object  : etsysLinkFlapIntfOperStatus     type : INTEGER
```

etsysMACLockingMACThreshold

Description

MAC database threshold notification. The device will send this notification when the MAC address threshold configured in the etsysMACLockingFirstArrivalStationsAllocated object has been reached so that the administrator can take appropriate action.

Object ID

1.3.6.1.4.1.5624.1.2.21.1.0.2

```
Trap    : etsysMACLockingMACThreshold
Objects : {  etsysMACLockingFirstArrivalStationsAllocated }
OID     : "1.3.6.1.4.1.5624.1.2.21.1.0.2"
object  : etsysMACLockingFirstArrivalStationsAllocated type : Unsigned32
```

etsysMACLockingMACViolation

Description

If MAC Locking is globally enabled and specifically enabled for this port, then this trap is sent when a packet is received with a source MAC that differs from all the currently locked MACs for the portspecified in this instance of the notification.

Object ID

1.3.6.1.4.1.5624.1.2.21.1.0.1

```
Trap    : etsysMACLockingMACViolation
Objects : {  etsysMACLockingLastViolationAddress }
OID     : "1.3.6.1.4.1.5624.1.2.21.1.0.1"
object  : etsysMACLockingLastViolationAddress type : MacAddress
```

etsysMultiAuthFailed

Description

An etsysMultiAuthFailed trap signifies that the SNMP entity, acting in an agent role, has identified a station that attempted and subsequently failed to authenticate on one of its interfaces. The included objects of etsysMultiAuthStationAddrType and etsysMultiAuthStationAddr uniquely identify the station that attempted to authenticate. The interface that the station attempted to authenticate on is specified by the ifIndex object, and the type of authentication attempted is specified by the etsysMultiAuthSessionAgentType object. This trap will only be generated on interfaces that are in the authOptional(3) or authRequired(4) state.

Object ID

1.3.6.1.4.1.5624.1.2.46.1.0.2

```
Trap    : etsysMultiAuthFailed
Objects : {  etsysMultiAuthStationAddrType, etsysMultiAuthStationAddr, ifIndex,
etsysMultiAuthSessionAgentType }
OID     : "1.3.6.1.4.1.5624.1.2.46.1.0.2"
object  : etsysMultiAuthStationAddrType    type : StationAddressType
object  : etsysMultiAuthStationAddr        type : StationAddress
object  : ifIndex                          type : InterfaceIndex
object  : etsysMultiAuthSessionAgentType   type : EtsysMultiAuthTypes
```

etsysMultiAuthMaxNumUsersReached

Description

An etsysMultiAuthMaxNumUsersReached trap signifies that the SNMP entity, acting in an agent role, has an interface where subsequent to a successful authentication, the number of current sessions on the interface equals the maximum number of sessions allowed for that interface. The interface that the maximum number of sessions has been reached is specified by the ifIndex object.

Object ID

1.3.6.1.4.1.5624.1.2.46.1.0.4

```
Trap    : etsysMultiAuthMaxNumUsersReached
Objects : {  ifIndex }
OID     : "1.3.6.1.4.1.5624.1.2.46.1.0.4"
object  : ifIndex                         type : InterfaceIndex
```

etsysMultiAuthModuleMaxNumUsersReached

Description

An etsysMultiAuthModuleMaxNumUsersReached trap signifies that the SNMP entity, acting in an agent role, has a module where subsequent to a successful authentication, the number of current sessions on the module equals the maximum number of sessions allowed for that module. The module that the maximum number of sessions has been reached is specified by the entPhysicalIndex object.

Object ID

1.3.6.1.4.1.5624.1.2.46.1.0.5

```
Trap    : etsysMultiAuthModuleMaxNumUsersReached
Objects : {  entPhysicalIndex }
OID     : "1.3.6.1.4.1.5624.1.2.46.1.0.5"
object  : entPhysicalIndex                type : PhysicalIndex
```

etsysMultiAuthSuccess

Description

An etsysMultiAuthSuccess trap signifies that the SNMP entity, acting in an agent role, has successfully authenticated a station on one of its interfaces. The included objects of etsysMultiAuthStationAddrType and etsysMultiAuthStationAddr uniquely identify the station that has been authenticated. The interface that the station was authenticated on is specified by the ifIndex object, and the type of authentication used is to authenticate the station is specified by the etsysMultiAuthSessionAgentType object. This trap will only be generated on interfaces that are in the authOptional(3) or authRequired(4) state.

Object ID

1.3.6.1.4.1.5624.1.2.46.1.0.1

```
Trap    : etsysMultiAuthSuccess
Objects : {  etsysMultiAuthStationAddrType, etsysMultiAuthStationAddr, ifIndex,
etsysMultiAuthSessionAgentType }
OID     : "1.3.6.1.4.1.5624.1.2.46.1.0.1"
object  : etsysMultiAuthStationAddrType    type : StationAddressType
object  : etsysMultiAuthStationAddr        type : StationAddress
object  : ifIndex                          type : InterfaceIndex
object  : etsysMultiAuthSessionAgentType   type : EtsysMultiAuthTypes
```

etsysMultiAuthTerminated

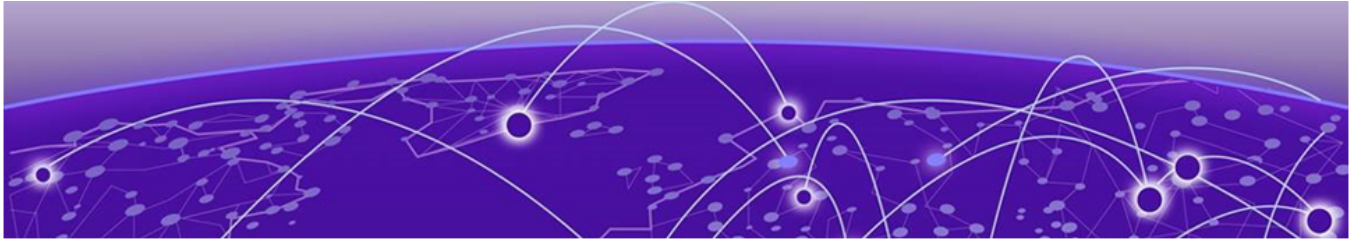
Description

An etsysMultiAuthTerminated trap signifies that the SNMP entity, acting in an agent role, has terminated the authentication of a station on one of its interfaces. The included objects of etsysMultiAuthStationAddrType and etsysMultiAuthStationAddr uniquely identify the station for which authentication was terminated. The interface that the station was previously authenticated on is specified by the ifIndex object, and the type of authentication that the station was terminated for is specified by the etsysMultiAuthSessionAgentType object. This trap will only be generated on interfaces that are in the authOptional(3) or authRequired(4) state.

Object ID

1.3.6.1.4.1.5624.1.2.46.1.0.3

```
Trap    : etsysMultiAuthTerminated
Objects : {  etsysMultiAuthStationAddrType, etsysMultiAuthStationAddr, ifIndex,
etsysMultiAuthSessionAgentType }
OID     : "1.3.6.1.4.1.5624.1.2.46.1.0.3"
object  : etsysMultiAuthStationAddrType    type : StationAddressType
object  : etsysMultiAuthStationAddr        type : StationAddress
object  : ifIndex                          type : InterfaceIndex
object  : etsysMultiAuthSessionAgentType   type : EtsysMultiAuthTypes
```



extreme Traps

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The following topics are a catalog of the extreme trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

extremeAutoProvisionStatus

Description

This trap will reports the auto provision result (success/failed). It contains the attributes it got from the DHCP server.

Object ID

1.3.6.1.4.1.1916.1.40.3.0.1

```
Trap    : extremeAutoProvisionStatus
Objects : {  extremeAutoProvisionResult, extremeAutoProvisionIpAddress,
extremeAutoProvisionGateway, extremeAutoProvisionTFTPServer,
extremeAutoProvisionConfigFileName }
OID     : "1.3.6.1.4.1.1916.1.40.3.0.1"
object  : extremeAutoProvisionConfigFileName type : DisplayString
object  : extremeAutoProvisionTFTPServer   type : IpAddress
object  : extremeAutoProvisionGateway      type : IpAddress
object  : extremeAutoProvisionIpAddress    type : IpAddress
object  : extremeAutoProvisionResult       type : INTEGER
```

extremeBfdSessDown

Description

This notification is generated when the extremeBfdSessState object for one or more contiguous entries in extremeBfdSessTable are about to enter the down(2) or adminDown(1) states from some other state. The included values of extremeBfdSessDiag MUST both be set equal to this new state (i.e: down(2) or adminDown(1)). The two instances of extremeBfdSessDiag in this notification indicate the range of indexes that are affected. Note that all the indexes of the two ends of the range can be derived from the instance identifiers of these two objects. For cases where a contiguous range of sessions have transitioned into the down(2) or adminDown(1) states at roughly the same time, the device SHOULD issue a single notification for each range of contiguous indexes in an effort to minimize the emission of a large number of notifications. If a notification has to be issued for just a single extremeBfdSessEntry, then the instance identifier (and values) of the two extremeBfdSessDiag objects MUST be the identical.

Object ID

1.3.6.1.4.1.1916.1.43.2.0.2

```
Trap    : extremeBfdSessDown
Objects : {  extremeBfdSessDiag, extremeBfdSessOperMode }
OID     : "1.3.6.1.4.1.1916.1.43.2.0.2"
object  : extremeBfdSessOperMode           type : ExtremeBfdSessOperModeTC
object  : extremeBfdSessDiag               type : ExtremeBfdDiagTC
```

extremeBfdSessUp

Description

This notification is generated when the extremeBfdSessState object for one or more contiguous entries in extremeBfdSessTable are about to enter the up(4) state from some other state. The included values of extremeBfdSessDiag MUST both be set equal to this new state (i.e: up(4)). The two instances of extremeBfdSessDiag in this notification indicate the range of indexes that are affected. Note that all the indexes of the two ends of the range can be derived from the instance identifiers of these two objects. For the cases where a contiguous range of sessions have transitioned into the up(4) state at roughly the same time, the device SHOULD issue a single notification for each range of contiguous indexes in an effort to minimize the emission of a large number of notifications. If a notification has to be issued for just a single extremeBfdSessEntry, then the instance identifier (and values) of the two extremeBfdSessDiag objects MUST be the identical.

Object ID

1.3.6.1.4.1.1916.1.43.2.0.1

```
Trap    : extremeBfdSessUp
Objects : {  extremeBfdSessDiag, extremeBfdSessOperMode }
OID     : "1.3.6.1.4.1.1916.1.43.2.0.1"
object  : extremeBfdSessOperMode           type : ExtremeBfdSessOperModeTC
object  : extremeBfdSessDiag               type : ExtremeBfdDiagTC
```

extremeBgpM2PrefixMaxExceeded

Description

The extremeBgpPrefixMaxExceeded notification is generated when the number of prefixes received over this peer session reaches the maximum configured limit.

Object ID

1.3.6.1.4.1.1916.4.8.0.2

```
Trap    : extremeBgpM2PrefixMaxExceeded
Objects : {  bgpM2PeerRemoteAddr, bgpM2PeerRemoteAddrType, bgpM2PeerLocalAddr,
bgpM2PeerLocalAddrType }
OID     : "1.3.6.1.4.1.1916.4.8.0.2"
object  : bgpM2PeerRemoteAddr              type : InetAddress
object  : bgpM2PeerRemoteAddrType          type : InetAddressType
object  : bgpM2PeerLocalAddr               type : InetAddress
object  : bgpM2PeerLocalAddrType           type : InetAddressType
```

extremeBgpM2PrefixReachedThreshold

Description

The extremeBgpPrefixReachedThreshold notification is generated when the number of prefixes received over this peer session reaches the threshold limit.

Object ID

1.3.6.1.4.1.1916.4.8.0.1

```
Trap    : extremeBgpM2PrefixReachedThreshold
Objects : {  bgpM2PeerRemoteAddr, bgpM2PeerRemoteAddrType, bgpM2PeerLocalAddr,
bgpM2PeerLocalAddrType }
OID     : "1.3.6.1.4.1.1916.4.8.0.1"
object  : bgpM2PeerRemoteAddr              type : InetAddress
object  : bgpM2PeerRemoteAddrType          type : InetAddressType
object  : bgpM2PeerLocalAddr               type : InetAddress
object  : bgpM2PeerLocalAddrType           type : InetAddressType
```

extremeCfmGroupStatusDownUpAlarm

Description

A Group status is changed. A notification (DownUpAlarm) is sent to the management entity with the OID of the Group that has detected the status change.

The management entity receiving the notification can identify the system from the network source address of the notification, and can identify the Group reporting the status by the indices in the OID of the extremeCfmGroupStatus variable in the notification:

dot1agCfmMdIndex

Also the index of the MEP's Maintenance Domain table entry (dot1agCfmMdTable).

dot1agCfmMaIndex

Also an index (with the MD table index) of the MEP's Maintenance Association network table entry (dot1agCfmMaNetTable), and (with the MD table index and component ID) of the MEP's MA component table entry (dot1agCfmMaCompTable).

dot1agCfmMepIdentifier

MEP Identifier and final index into the MEP table (dot1agCfmMepTable).

extremeCfmGroupIndex

Group Identifier and final index into the Group table (extremeCfmGroupTable).

Object ID

1.3.6.1.4.1.1916.1.47.0.1

```
Trap    : extremeCfmGroupStatusDownUpAlarm
Objects : {  extremeCfmGroupStatus }
OID     : "1.3.6.1.4.1.1916.1.47.0.1"
object  : extremeCfmGroupStatus            type : ExtremeCfmGroupOperStatus
```

extremeClearflowMessage

Description

CLEAR-Flow message trap.

Object ID

1.3.6.1.4.1.1916.1.30.0.0.1

```
Trap    : extremeClearflowMessage
Objects : {  extremeClearflowMsgId, extremeClearflowMsg, extremeClearflowPolicyName,
extremeClearflowRuleName, extremeClearflowRuleValue, extremeClearflowRuleThreshold,
extremeClearflowRuleInterval, extremeClearflowVlanName, extremeClearflowPortName }
OID     : "1.3.6.1.4.1.1916.1.30.0.0.1"
object  : extremeClearflowPortName         type : DisplayString
object  : extremeClearflowVlanName         type : DisplayString
object  : extremeClearflowRuleInterval     type : Unsigned32
object  : extremeClearflowRuleThreshold    type : Counter64
object  : extremeClearflowRuleValue        type : Counter64
object  : extremeClearflowRuleName         type : DisplayString
object  : extremeClearflowPolicyName       type : DisplayString
object  : extremeClearflowMsg              type : DisplayString
object  : extremeClearflowMsgId            type : Unsigned32
```

extremeCpuUtilizationFallingTrap

Description

CPU Utilization Falling Trap is generated when the extremeCpuAggregateUtilization falls below 80% of the extremeCpuUtilRisingThreshold.

This trap is supported only in ExtremeWare.

Object ID

1.3.6.1.4.1.1916.4.1.0.3

```
Trap    : extremeCpuUtilizationFallingTrap
Objects : {  extremeCpuTaskUtilPair, extremeCpuAggregateUtilization,
extremeCpuUtilRisingThreshold }
OID     : "1.3.6.1.4.1.1916.4.1.0.3"
object  : extremeCpuUtilRisingThreshold    type : INTEGER
object  : extremeCpuAggregateUtilization   type : Integer32
object  : extremeCpuTaskUtilPair           type : DisplayString
```

extremeCpuUtilizationRisingTrap

Description

CPU Utilizations Rising trap generated when extremeCpuUtilRisingThreshold is touched/crossed.

This trap is supported only in ExtremeWare.

Object ID

1.3.6.1.4.1.1916.4.1.0.2

```
Trap    : extremeCpuUtilizationRisingTrap
Objects : {  extremeCpuTaskUtilPair, extremeCpuAggregateUtilization,
extremeCpuUtilRisingThreshold }
OID     : "1.3.6.1.4.1.1916.4.1.0.2"
object  : extremeCpuUtilRisingThreshold    type : INTEGER
object  : extremeCpuAggregateUtilization   type : Integer32
object  : extremeCpuTaskUtilPair           type : DisplayString
```

extremeEapsConfigChange

Description

The extremeEapsConfigChange notification is generated when the EAPS configuration has changed. It is sent 30 seconds after the first change is made to limit the number of traps sent.

Object ID

1.3.6.1.4.1.1916.4.7.0.6

```
Trap    : extremeEapsConfigChange
Objects : {  extremeEapsLastConfigurationChange }
OID     : "1.3.6.1.4.1.1916.4.7.0.6"
object  : extremeEapsLastConfigurationChange type : Unsigned32
```

extremeEapsFailTimerExpFlagClear

Description

The extremeEapsFailTimerExpFlagClear notification is generated when the EAPS domain's Fail timer expired flag is cleared.

Object ID

1.3.6.1.4.1.1916.4.7.0.3

```
Trap    : extremeEapsFailTimerExpFlagClear
Objects : {  extremeEapsName, extremeEapsMode, extremeEapsPrevState, extremeEapsState,
extremeEapsFailedFlag, extremeEapsPrimaryStatus, extremeEapsSecondaryStatus }
OID     : "1.3.6.1.4.1.1916.4.7.0.3"
object  : extremeEapsSecondaryStatus       type : EapsDomainPortStatus
object  : extremeEapsPrimaryStatus         type : EapsDomainPortStatus
object  : extremeEapsFailedFlag            type : TruthValue
object  : extremeEapsState                 type : EapsDomainState
object  : extremeEapsPrevState             type : EapsDomainState
object  : extremeEapsMode                  type : EapsDomainMode
object  : extremeEapsName                  type : DisplayString
```

extremeEapsFailTimerExpFlagSet

Description

The extremeEapsFailTimerExpFlagSet notification is generated when the EAPS domain's fail timer expires for the first time, while its state is not in Fail state.

Object ID

1.3.6.1.4.1.1916.4.7.0.2

```
Trap    : extremeEapsFailTimerExpFlagSet
Objects : {  extremeEapsName, extremeEapsMode, extremeEapsPrevState, extremeEapsState }
OID     : "1.3.6.1.4.1.1916.4.7.0.2"
object  : extremeEapsState                type : EapsDomainState
object  : extremeEapsPrevState            type : EapsDomainState
object  : extremeEapsMode                 type : EapsDomainMode
object  : extremeEapsName                 type : DisplayString
```

extremeEapsLastStatusChangeTime

Description

The extremeEapsLastStatusChangeTime notification is generated 10 seconds after a status change occurs. Within the 10 second period all status changes cause extremeEapsLastStatusChange variable to be updated. Ten seconds after the first change, this trap is sent. This is to ensure a management station is notified that a change occured, in case the regular traps are dropped due to be being sent while the network is converging.

Object ID

1.3.6.1.4.1.1916.4.7.0.7

```
Trap    : extremeEapsLastStatusChangeTime
Objects : {  extremeEapsLastStatusChange, extremeEapsStatusTrapCount }
OID     : "1.3.6.1.4.1.1916.4.7.0.7"
object  : extremeEapsStatusTrapCount       type : Counter32
object  : extremeEapsLastStatusChange      type : Unsigned32
```

extremeEapsLinkDownRingComplete

Description

If a Transit is in Link-Down state, and it receives a Health-Check-Pdu from the primary indicating the ring is complete, it means there is some problem with the transit switch that has issued this trap message.

Object ID

1.3.6.1.4.1.1916.4.7.0.4

```
Trap    : extremeEapsLinkDownRingComplete
Objects : {  extremeEapsName, extremeEapsMode, extremeEapsPrevState, extremeEapsState,
extremeEapsFailedFlag, extremeEapsPrimaryStatus, extremeEapsSecondaryStatus }
OID     : "1.3.6.1.4.1.1916.4.7.0.4"
object  : extremeEapsSecondaryStatus       type : EapsDomainPortStatus
object  : extremeEapsPrimaryStatus         type : EapsDomainPortStatus
object  : extremeEapsFailedFlag            type : TruthValue
object  : extremeEapsState                 type : EapsDomainState
object  : extremeEapsPrevState             type : EapsDomainState
object  : extremeEapsMode                  type : EapsDomainMode
object  : extremeEapsName                  type : DisplayString
```

extremeEapsPortStatusChange

Description

The extremeEapsPortStatusChange notification is generated when an EAPS primary or secondary port changes state.

Object ID

1.3.6.1.4.1.1916.4.7.0.5

```
Trap    : extremeEapsPortStatusChange
Objects : {  extremeEapsName, extremeEapsPrimaryStatus, extremeEapsSecondaryStatus,
extremeEapsLastStatusChange }
OID     : "1.3.6.1.4.1.1916.4.7.0.5"
object  : extremeEapsLastStatusChange      type : Unsigned32
object  : extremeEapsSecondaryStatus       type : EapsDomainPortStatus
object  : extremeEapsPrimaryStatus         type : EapsDomainPortStatus
object  : extremeEapsName                  type : DisplayString
```

extremeEapsRootBlockerStatusChange

Description

The extremeEapsRootBlockerStatusChange notification is generated when each switch detects a new rootblocker ID on the networks.

Object ID

1.3.6.1.4.1.1916.4.9.0.4

```
Trap    : extremeEapsRootBlockerStatusChange
Objects : {  extremeEapsSharedPortIfIndex, extremeEapsSharedPortRootBlockerStatus,
extremeEapsSharedPortRootBlockerId, extremeEapsLastStatusChange }
OID     : "1.3.6.1.4.1.1916.4.9.0.4"
object  : extremeEapsLastStatusChange            type : Unsigned32
object  : extremeEapsSharedPortRootBlockerId     type : INTEGER
object  : extremeEapsSharedPortRootBlockerStatus type : EapsSharedPortRootBlockerStatus
object  : extremeEapsSharedPortIfIndex           type : EapsRingPort
```

extremeEapsSegmentTimerExpFlagClear

Description

The extremeEapsSegmentTimerExpFlagClear notification is generated when the EAPS domain's Segment Fail timer expired flag is cleared.

Object ID

1.3.6.1.4.1.1916.4.9.0.2

```
Trap    : extremeEapsSegmentTimerExpFlagClear
Objects : {  extremeSegmentPort, extremeSharedPort }
OID     : "1.3.6.1.4.1.1916.4.9.0.2"
object  : extremeSharedPort               type : EapsRingPort
object  : extremeSegmentPort              type : EapsRingPort
```

extremeEapsSegmentTimerExpFlagSet

Description

The extremeEapsFailTimerExpFlagSet notification is generated when the EAPS domain's segment timer expires for the first time.

Object ID

1.3.6.1.4.1.1916.4.9.0.1

```
Trap    : extremeEapsSegmentTimerExpFlagSet
Objects : {  extremeSegmentPort, extremeSharedPort }
OID     : "1.3.6.1.4.1.1916.4.9.0.1"
object  : extremeSharedPort               type : EapsRingPort
object  : extremeSegmentPort              type : EapsRingPort
```

extremeEapsSharedPortStateChange

Description

The extremeEapsSharedPortStateChange notification is generate when the EAPS shared port state changes.

Object ID

1.3.6.1.4.1.1916.4.9.0.3

```
Trap    : extremeEapsSharedPortStateChange
Objects : {  extremeEapsSharedPortIfIndex, extremeEapsSharedPortLinkId,
extremeEapsSharedPortState, extremeEapsSharedPortNbrStatus,
extremeEapsSharedPortRootBlockerStatus, extremeEapsLastStatusChange }
OID     : "1.3.6.1.4.1.1916.4.9.0.3"
object  : extremeEapsLastStatusChange      type : Unsigned32
object  : extremeEapsSharedPortRootBlockerStatus type : EapsSharedPortRootBlockerStatus
object  : extremeEapsSharedPortNbrStatus   type : EapsSharedPortNeighborStatus
object  : extremeEapsSharedPortState       type : EapsSharedPortState
object  : extremeEapsSharedPortLinkId      type : INTEGER
object  : extremeEapsSharedPortIfIndex     type : EapsRingPort
```

extremeEapsStateChanged

Description

The extremeEapsStateChange notification is generated when the EAPS domain has a state change.

Object ID

1.3.6.1.4.1.1916.4.7.0.1

```
Trap    : extremeEapsStateChange
Objects : {  extremeEapsName, extremeEapsMode, extremeEapsPrevState, extremeEapsState,
extremeEapsFailedFlag, extremeEapsPrimaryStatus, extremeEapsSecondaryStatus }
OID     : "1.3.6.1.4.1.1916.4.7.0.1"
object  : extremeEapsSecondaryStatus       type : EapsDomainPortStatus
object  : extremeEapsPrimaryStatus         type : EapsDomainPortStatus
object  : extremeEapsFailedFlag            type : TruthValue
object  : extremeEapsState                 type : EapsDomainState
object  : extremeEapsPrevState             type : EapsDomainState
object  : extremeEapsMode                  type : EapsDomainMode
object  : extremeEapsName                  type : DisplayString
```

extremeEdpNeighborAdded

Description

This node discovers a new neighbor through Extreme Discovery Protocol.

Object ID

1.3.6.1.4.1.1916.0.20

```
Trap    : extremeEdpNeighborAdded
Objects : {  sysUpTime, extremeEdpPortIfIndex, extremeEdpNeighborId, extremeEdpEntryAge,
ifAlias, ifDescr }
OID     : "1.3.6.1.4.1.1916.0.20"
object  : ifDescr                          type : DisplayString
object  : ifAlias                          type : DisplayString
object  : extremeEdpEntryAge               type : Integer32
object  : extremeEdpNeighborId             type : ExtremeDeviceId
object  : extremeEdpPortIfIndex            type : INTEGER
object  : sysUpTime                        type : TimeTicks
```

extremeEdpNeighborRemoved

Description

No EDP updates are received from this neighbor within the configured timeout period and this neighbor entry is aged out by the device.

Object ID

1.3.6.1.4.1.1916.0.21

```
Trap    : extremeEdpNeighborRemoved
Objects : {  sysUpTime, extremeEdpPortIfIndex, extremeEdpNeighborId, extremeEdpEntryAge,
ifAlias, ifDescr }
OID     : "1.3.6.1.4.1.1916.0.21"
object  : ifDescr                          type : DisplayString
object  : ifAlias                          type : DisplayString
object  : extremeEdpEntryAge               type : Integer32
object  : extremeEdpNeighborId             type : ExtremeDeviceId
object  : extremeEdpPortIfIndex            type : INTEGER
object  : sysUpTime                        type : TimeTicks
```

extremeElrpVlanLoopDetected

Description

The extremeElrpVlanLoopDetected notification is generated when the ELRP client detects a loop in the VLAN.

Object ID

1.3.6.1.4.1.1916.4.6.0.1

```
Trap    : extremeElrpVlanLoopDetected
Objects : {  extremeVlanIfDescr }
OID     : "1.3.6.1.4.1.1916.4.6.0.1"
object  : extremeVlanIfDescr              type : DisplayString
```

extremeEsrpDomainStateChange

Description

Signifies Esrp state change.

Object ID

1.3.6.1.4.1.1916.1.12.7.0.1

```
Trap    : extremeEsrpDomainStateChange
Objects : {  extremeEsrpDmnName, extremeEsrpDmnGroup, extremeEsrpDmnState,
extremeEsrpDmnNetAddress, extremeEsrpDmnMasterMacAddress, extremeEsrpDmnActivePorts,
extremeEsrpDmnInternalActivePorts, extremeEsrpDmnTrackedActivePorts,
extremeEsrpDmnTrackedIpRoutes, extremeEsrpDmnTrackedPings,
extremeEsrpDmnActivePortWeight, extremeEsrpDmnTrackedActivePortWeight }
OID     : "1.3.6.1.4.1.1916.1.12.7.0.1"
object  : extremeEsrpDmnTrackedActivePortWeight type : INTEGER
object  : extremeEsrpDmnActivePortWeight    type : INTEGER
object  : extremeEsrpDmnTrackedPings        type : INTEGER
object  : extremeEsrpDmnTrackedIpRoutes     type : INTEGER
object  : extremeEsrpDmnTrackedActivePorts  type : INTEGER
object  : extremeEsrpDmnInternalActivePorts type : INTEGER
object  : extremeEsrpDmnActivePorts         type : INTEGER
object  : extremeEsrpDmnMasterMacAddress    type : MacAddress
object  : extremeEsrpDmnNetAddress          type : IpAddress
object  : extremeEsrpDmnState               type : INTEGER
object  : extremeEsrpDmnGroup               type : INTEGER
object  : extremeEsrpDmnName                type : DisplayString
```

extremeFanfailed

Description

A fan failed trap indicates one or more of the cooling fans inside the device has failed. A fanOK trap will be sent once the fan has attained normal operation.

Object ID

1.3.6.1.4.1.1916.0.7

```
Trap    : extremeFanfailed
Objects : {  sysUpTime, sysDescr, extremeFanNumber }
OID     : "1.3.6.1.4.1.1916.0.7"
object  : extremeFanNumber                type : Integer32
object  : sysDescr                        type : DisplayString
object  : sysUpTime                       type : TimeTicks
```

extremeFanOK

Description

A fan has transitioned out of a failure state and is now operating correctly.

Object ID

1.3.6.1.4.1.1916.0.8

```
Trap    : extremeFanOK
Objects : {  sysUpTime, sysDescr, extremeFanNumber }
OID     : "1.3.6.1.4.1.1916.0.8"
object  : extremeFanNumber                type : Integer32
object  : sysDescr                        type : DisplayString
object  : sysUpTime                       type : TimeTicks
```

extremeGenericTrap

Description

Some event took place in the system.

Object ID

1.3.6.1.4.1.1916.1.1.6.0.2

```
Trap    : extremeGenericTrap
Objects : {  severity, eventName, message }
OID     : "1.3.6.1.4.1.1916.1.1.6.0.2"
object  : message                          type : DisplayString
object  : eventName                        type : DisplayString
object  : severity                         type : INTEGER
```

extremeGratuitousArpViolation

Description

This trap will be generated on a valn for which gratuitous ARP protection has been configured, when a gratuitous ARP does not match the internal static or secured IP<->MAC binding.

Object ID

1.3.6.1.4.1.1916.4.3.0.7

```
Trap    : extremeGratuitousArpViolation
Objects : {  extremeArpSecurityVlanIfIndex, extremeArpSecurityVlanDescr,
extremeArpSecurityPortIfIndex, extremeArpSecurityIpAddr, extremeArpSecurityMacAddress }
OID     : "1.3.6.1.4.1.1916.4.3.0.7"
object  : extremeArpSecurityMacAddress     type : MacAddress
object  : extremeArpSecurityIpAddr         type : IpAddress
object  : extremeArpSecurityPortIfIndex    type : Integer32
object  : extremeArpSecurityVlanDescr      type : DisplayString
object  : extremeArpSecurityVlanIfIndex    type : Integer32
```

extremeHealthCheckFailed

Description

CPU HealthCheck has failed.

Object ID

1.3.6.1.4.1.1916.4.1.0.1

```
Trap    : extremeHealthCheckFailed
Objects : {  sysDescr, extremeSlotNumber, extremeHealthCheckErrorType,
extremeHealthCheckAction, extremeHealthCheckMaxRetries }
OID     : "1.3.6.1.4.1.1916.4.1.0.1"
object  : extremeHealthCheckMaxRetries     type : Integer32
object  : extremeHealthCheckAction         type : INTEGER
object  : extremeHealthCheckErrorType      type : INTEGER
object  : extremeSlotNumber                type : Integer32
object  : sysDescr                         type : DisplayString
```

extremeIdMgrMemLevelChange

Description

If Identity Management feature is enabled, this trap will be generated when the memory usage level changes.

Object ID

1.3.6.1.4.1.1916.1.36.1.0.1

```
Trap    : extremeIdMgrMemLevelChange
Objects : {  extremeIdMgrTrapSeverity, extremeIdMgrMemUsageLevel, extremeIdMgrMemUsage,
extremeIdMgrMemMaxSize, extremeIdMgrEffectiveStaleAgingTime }
OID     : "1.3.6.1.4.1.1916.1.36.1.0.1"
object  : extremeIdMgrEffectiveStaleAgingTime type : Integer32
object  : extremeIdMgrMemMaxSize           type : Integer32
object  : extremeIdMgrMemUsage             type : Integer32
object  : extremeIdMgrMemUsageLevel        type : INTEGER
object  : extremeIdMgrTrapSeverity         type : INTEGER
```

extremeInvalidLoginAttempt

Description

A user attempted to login to console or by telnet but was refused access due to incorrect username or password.

Object ID

1.3.6.1.4.1.1916.0.9

```
Trap    : extremeInvalidLoginAttempt
Objects : {  sysUpTime, sysDescr }
OID     : "1.3.6.1.4.1.1916.0.9"
object  : sysDescr                        type : DisplayString
object  : sysUpTime                       type : TimeTicks
```

extremeIpSecurityAnomalyIcmpViolation

Description

For ports on which the protocol anomaly protection ICMP features has been enabled, this trap will be generated when an ICMP packet received on that port if:

1. the size of ICMP (IP payload) is large thant pre-configured value; or
2. it is a fragmented IP/ICMP packet (IP offset != 0).

Object ID

1.3.6.1.4.1.1916.1.34.2.0.5

```
Trap    : extremeIpSecurityAnomalyIcmpViolation
Objects : {  esAnomalyPortIfIndex, esAnomalyVlanIfIndex, esAnomalyVlanDescr,
esAnomalySrcMacAddress, esAnomalyDestMacAddress, esAnomalyVlanTag,
esAnomalySrcIpAddrType, esAnomalySrcIpAddr, esAnomalyDestIpAddrType, esAnomalyDestIpAddr,
esAnomalyIcmpReason }
OID     : "1.3.6.1.4.1.1916.1.34.2.0.5"
object  : esAnomalyIcmpReason              type : IcmpAnomalyReason
object  : esAnomalyDestIpAddr              type : InetAddress
object  : esAnomalyDestIpAddrType          type : InetAddressType
object  : esAnomalySrcIpAddr               type : InetAddress
object  : esAnomalySrcIpAddrType           type : InetAddressType
object  : esAnomalyVlanTag                 type : VlanTag
object  : esAnomalyDestMacAddress          type : MacAddress
object  : esAnomalySrcMacAddress           type : MacAddress
object  : esAnomalyVlanDescr               type : DisplayString
object  : esAnomalyVlanIfIndex             type : Integer32
object  : esAnomalyPortIfIndex             type : Integer32
```

extremeIpSecurityAnomalyIpViolation

Description

For ports on which the protocol anomaly protection IP features has been enabled, this trap will be generated when a packet received on that port if the packet's source IP == destination IP.

Object ID

1.3.6.1.4.1.1916.1.34.2.0.1

```
Trap    : extremeIpSecurityAnomalyIpViolation
Objects : {  esAnomalyPortIfIndex, esAnomalyVlanIfIndex, esAnomalyVlanDescr,
esAnomalySrcMacAddress, esAnomalyDestMacAddress, esAnomalyVlanTag,
esAnomalySrcIpAddrType, esAnomalySrcIpAddr, esAnomalyDestIpAddrType, esAnomalyDestIpAddr,
esAnomalyIpProto }
OID     : "1.3.6.1.4.1.1916.1.34.2.0.1"
object  : esAnomalyIpProto                type : IpProtocol
object  : esAnomalyDestIpAddr             type : InetAddress
object  : esAnomalyDestIpAddrType         type : InetAddressType
object  : esAnomalySrcIpAddr              type : InetAddress
object  : esAnomalySrcIpAddrType          type : InetAddressType
object  : esAnomalyVlanTag                type : VlanTag
object  : esAnomalyDestMacAddress         type : MacAddress
object  : esAnomalySrcMacAddress          type : MacAddress
object  : esAnomalyVlanDescr              type : DisplayString
object  : esAnomalyVlanIfIndex            type : Integer32
object  : esAnomalyPortIfIndex            type : Integer32
```

extremeIpSecurityAnomalyL4PortViolation

Description

For ports on which the protocol anomaly protection L4port features has been enabled, this trap will be generated when a packet received on that port if:

1. the packet is a TCP or UDP packet.
2. its source L4 port == destination port

Object ID

1.3.6.1.4.1.1916.1.34.2.0.2

```
Trap    : extremeIpSecurityAnomalyL4PortViolation
Objects : {  esAnomalyPortIfIndex, esAnomalyVlanIfIndex, esAnomalyVlanDescr,
esAnomalySrcMacAddress, esAnomalyDestMacAddress, esAnomalyVlanTag,
esAnomalySrcIpAddrType, esAnomalySrcIpAddr, esAnomalyDestIpAddrType, esAnomalyDestIpAddr,
esAnomalyIpProto, esAnomalySrcL4Port, esAnomalyDestL4Port }
OID     : "1.3.6.1.4.1.1916.1.34.2.0.2"
object  : esAnomalyDestL4Port              type : InetPortNumber
object  : esAnomalySrcL4Port               type : InetPortNumber
object  : esAnomalyIpProto                 type : IpProtocol
object  : esAnomalyDestIpAddr              type : InetAddress
object  : esAnomalyDestIpAddrType          type : InetAddressType
object  : esAnomalySrcIpAddr               type : InetAddress
object  : esAnomalySrcIpAddrType           type : InetAddressType
object  : esAnomalyVlanTag                 type : VlanTag
object  : esAnomalyDestMacAddress          type : MacAddress
object  : esAnomalySrcMacAddress           type : MacAddress
object  : esAnomalyVlanDescr               type : DisplayString
object  : esAnomalyVlanIfIndex             type : Integer32
object  : esAnomalyPortIfIndex             type : Integer32
```

extremeIpSecurityAnomalyTcpFlagViolation

Description

For ports on which the protocol anomaly protection TCP flags features has been enabled, this trap will be generated when a TCP packet received on that port if:

1. (TCP flag SYN is set) and (its TCP source port < 1024); or
2. (TCP flag == 0) and (TCP seq # == 0); or
3. (TCP flag FIN/URG/PSH bits sre set) and (TCP seq # == 0); or
4. Both TCP iflag SYN and FIN are set.

Object ID

1.3.6.1.4.1.1916.1.34.2.0.3

```
Trap    : extremeIpSecurityAnomalyTcpFlagViolation
Objects : {  esAnomalyPortIfIndex, esAnomalyVlanIfIndex, esAnomalyVlanDescr,
esAnomalySrcMacAddress, esAnomalyDestMacAddress, esAnomalyVlanTag,
esAnomalySrcIpAddrType, esAnomalySrcIpAddr, esAnomalyDestIpAddrType, esAnomalyDestIpAddr,
esAnomalySrcL4Port, esAnomalyDestL4Port, esAnomalyTcpFlagReason, esAnomalyTcpFlag,
esAnomalyTcpSeq }
OID     : "1.3.6.1.4.1.1916.1.34.2.0.3"
object  : esAnomalyTcpSeq                  type : Integer32
object  : esAnomalyTcpFlag                 type : HexOctet
object  : esAnomalyTcpFlagReason           type : TcpFlagAnomalyReason
object  : esAnomalyDestL4Port              type : InetPortNumber
object  : esAnomalySrcL4Port               type : InetPortNumber
object  : esAnomalyDestIpAddr              type : InetAddress
object  : esAnomalyDestIpAddrType          type : InetAddressType
object  : esAnomalySrcIpAddr               type : InetAddress
object  : esAnomalySrcIpAddrType           type : InetAddressType
object  : esAnomalyVlanTag                 type : VlanTag
object  : esAnomalyDestMacAddress          type : MacAddress
object  : esAnomalySrcMacAddress           type : MacAddress
object  : esAnomalyVlanDescr               type : DisplayString
object  : esAnomalyVlanIfIndex             type : Integer32
object  : esAnomalyPortIfIndex             type : Integer32
```

extremeIpSecurityAnomalyTcpFragmentViolation

Description

For ports on which the protocol anomaly protection TCP fragment features has been enabled, this trap will be generated when a packet received on that port if:

1. the packet is a TCP, and its size of the TCP header is less than pre-configured value; or
2. the packet is a TCP and it is a IP fragmented packet (IP offset != 0).

Object ID

1.3.6.1.4.1.1916.1.34.2.0.4

```
Trap    : extremeIpSecurityAnomalyTcpFragmentViolation
Objects : {  esAnomalyPortIfIndex, esAnomalyVlanIfIndex, esAnomalyVlanDescr,
esAnomalySrcMacAddress, esAnomalyDestMacAddress, esAnomalyVlanTag,
esAnomalySrcIpAddrType, esAnomalySrcIpAddr, esAnomalyDestIpAddrType, esAnomalyDestIpAddr,
esAnomalyTcpFragmentReason, esAnomalyTcpHdrSize }
OID     : "1.3.6.1.4.1.1916.1.34.2.0.4"
object  : esAnomalyTcpHdrSize              type : Integer32
object  : esAnomalyTcpFragmentReason       type : TcpFragmentAnomalyReason
object  : esAnomalyDestIpAddr              type : InetAddress
object  : esAnomalyDestIpAddrType          type : InetAddressType
object  : esAnomalySrcIpAddr               type : InetAddress
object  : esAnomalySrcIpAddrType           type : InetAddressType
object  : esAnomalyVlanTag                 type : VlanTag
object  : esAnomalyDestMacAddress          type : MacAddress
object  : esAnomalySrcMacAddress           type : MacAddress
object  : esAnomalyVlanDescr               type : DisplayString
object  : esAnomalyVlanIfIndex             type : Integer32
object  : esAnomalyPortIfIndex             type : Integer32
```

extremeIpSecurityViolation

Description

For VLANs/ports on which one or more of the IP Security features have been enabled, this trap will be generated when a packet received on that VLAN/port is in violation of the configured IP Security protections.

Object ID

1.3.6.1.4.1.1916.1.34.1.0.1

```
Trap    : extremeIpSecurityViolation
Objects : {  extremeIpSecurityVlanIfIndex, extremeIpSecurityVlanDescr,
extremeIpSecurityPortIfIndex, extremeIpSecurityIpAddr, extremeIpSecurityMacAddress,
extremeIpSecurityViolationType }
OID     : "1.3.6.1.4.1.1916.1.34.1.0.1"
object  : extremeIpSecurityViolationType   type : INTEGER
object  : extremeIpSecurityMacAddress      type : MacAddress
object  : extremeIpSecurityIpAddr          type : IpAddress
object  : extremeIpSecurityPortIfIndex     type : Integer32
object  : extremeIpSecurityVlanDescr       type : DisplayString
object  : extremeIpSecurityVlanIfIndex     type : Integer32
```

extremeLacpAddPortToAggregator

Description

This Notification indicates when a LACP member-port has been added to the Aggregator.

Object ID

1.3.6.1.4.1.1916.4.13.0.1

```
Trap    : extremeLacpAddPortToAggregator
Objects : {  extremeLacpGroup, extremeLacpMemberPort }
OID     : "1.3.6.1.4.1.1916.4.13.0.1"
object  : extremeLacpMemberPort            type : LacpMemberPort
object  : extremeLacpGroup                 type : LacpGroupId
```

extremeLacpDeletePortFromAggregator

Description

This Notification indicates when a LACP member-port has been deleted from the Aggregator.

Object ID

1.3.6.1.4.1.1916.4.13.0.2

```
Trap    : extremeLacpDeletePortFromAggregator
Objects : {  extremeLacpGroup, extremeLacpMemberPort }
OID     : "1.3.6.1.4.1.1916.4.13.0.2"
object  : extremeLacpMemberPort            type : LacpMemberPort
object  : extremeLacpGroup                 type : LacpGroupId
```

extremeMacDetectedOnLockedPort

Description

This trap will be generated on a port for which lock-learning has been configured, when a new MAC address is learnt on that port.

Object ID

1.3.6.1.4.1.1916.4.3.0.3

```
Trap    : extremeMacDetectedOnLockedPort
Objects : {  extremeMacSecurityVlanIfIndex, extremeMacSecurityVlanDescr,
extremeMacSecurityVlanId, extremeMacSecurityMacAddress, extremeMacSecurityPortIfIndex }
OID     : "1.3.6.1.4.1.1916.4.3.0.3"
object  : extremeMacSecurityPortIfIndex    type : Integer32
object  : extremeMacSecurityMacAddress     type : MacAddress
object  : extremeMacSecurityVlanId         type : Integer32
object  : extremeMacSecurityVlanDescr      type : DisplayString
object  : extremeMacSecurityVlanIfIndex    type : Integer32
```

extremeMacLimitExceeded

Description

This trap will be generated, for a port on which limit-learning has been configured, when a new MAC address exceeding the limit is learnt on that port.

Object ID

1.3.6.1.4.1.1916.4.3.0.1

```
Trap    : extremeMacLimitExceeded
Objects : {  extremeMacSecurityVlanIfIndex, extremeMacSecurityVlanDescr,
extremeMacSecurityMacAddress, extremeMacSecurityPortIfIndex, extremeMacSecurityVlanId }
OID     : "1.3.6.1.4.1.1916.4.3.0.1"
object  : extremeMacSecurityVlanId         type : Integer32
object  : extremeMacSecurityPortIfIndex    type : Integer32
object  : extremeMacSecurityMacAddress     type : MacAddress
object  : extremeMacSecurityVlanDescr      type : DisplayString
object  : extremeMacSecurityVlanIfIndex    type : Integer32
```

extremeMACTrackingAdd

Description

The specified MAC address was added to the FDB on the mentioned port and VLAN.

Object ID

1.3.6.1.4.1.1916.1.16.6.0.1

```
Trap    : extremeMACTrackingAdd
Objects : {  extremeMacTrackingMacAddress, extremeMacTrackingVlanIfIndex,
extremeMacTrackingPortIfIndex }
OID     : "1.3.6.1.4.1.1916.1.16.6.0.1"
object  : extremeMacTrackingPortIfIndex    type : Integer32
object  : extremeMacTrackingVlanIfIndex    type : Integer32
object  : extremeMacTrackingMacAddress     type : MacAddress
```

extremeMACTrackingDel

Description

The specified MAC address was deleted from the FDB on the mentioned port and VLAN.

Object ID

1.3.6.1.4.1.1916.1.16.6.0.2

```
Trap    : extremeMACTrackingDel
Objects : {  extremeMacTrackingMacAddress, extremeMacTrackingVlanIfIndex,
extremeMacTrackingPortIfIndex }
OID     : "1.3.6.1.4.1.1916.1.16.6.0.2"
object  : extremeMacTrackingPortIfIndex    type : Integer32
object  : extremeMacTrackingVlanIfIndex    type : Integer32
object  : extremeMacTrackingMacAddress     type : MacAddress
```

extremeMACTrackingMove

Description

The specified MAC address was moved from the previous port to the new port on the specified VLAN.

Object ID

1.3.6.1.4.1.1916.1.16.6.0.3

```
Trap    : extremeMACTrackingMove
Objects : {  extremeMacTrackingMacAddress, extremeMacTrackingVlanIfIndex,
extremeMacTrackingPrevPortIfIndex, extremeMacTrackingPortIfIndex }
OID     : "1.3.6.1.4.1.1916.1.16.6.0.3"
object  : extremeMacTrackingPortIfIndex     type : Integer32
object  : extremeMacTrackingPrevPortIfIndex type : Integer32
object  : extremeMacTrackingVlanIfIndex     type : Integer32
object  : extremeMacTrackingMacAddress      type : MacAddress
```

extremeMlagAltPathDown

Description

This notification is sent when the alternate path to MLAG peer is down. This can happen when either alternate path or remote peer is down or the ISC link has come up.

Object ID

1.3.6.1.4.1.1916.1.41.3.0.4

```
Trap    : extremeMlagAltPathDown
Objects : {  extremeMlagAlternatePeerAddrType, extremeMlagAlternatePeerIP }
OID     : "1.3.6.1.4.1.1916.1.41.3.0.4"
object  : extremeMlagAlternatePeerAddrType type : InetAddressType
object  : extremeMlagAlternatePeerIP       type : InetAddress
```

extremeMlagAltPathUp

Description

This notification is sent when the ISC goes down and the alternate path to MLAG peer comes up.

Object ID

1.3.6.1.4.1.1916.1.41.3.0.3

```
Trap    : extremeMlagAltPathUp
Objects : {  extremeMlagAlternatePeerAddrType, extremeMlagAlternatePeerIP }
OID     : "1.3.6.1.4.1.1916.1.41.3.0.3"
object  : extremeMlagAlternatePeerAddrType type : InetAddressType
object  : extremeMlagAlternatePeerIP       type : InetAddress
```

extremeMlagPeerDown

Description

This notification is sent when health check messages are not received from the peer MLAG switch for 3 times the configured hello interval.

Object ID

1.3.6.1.4.1.1916.1.41.3.0.2

```
Trap    : extremeMlagPeerDown
Objects : {  extremeMlagPeerName }
OID     : "1.3.6.1.4.1.1916.1.41.3.0.2"
object  : extremeMlagPeerName              type : DisplayString
```

extremeMlagPeerUp

Description

This trap is sent when the MLAG peer comes up.

Object ID

1.3.6.1.4.1.1916.1.41.3.0.1

```
Trap    : extremeMlagPeerUp
Objects : {  extremeMlagPeerName }
OID     : "1.3.6.1.4.1.1916.1.41.3.0.1"
object  : extremeMlagPeerName              type : DisplayString
```

extremeMplsLdpSessionStatusChange

Description

This notification is generated when the value of 'mplsLdpSessionState' (rfc3815) enters or leaves the 'operational(5)' state.

Object ID

1.3.6.1.4.1.1916.1.37.0.4

```
Trap    : extremeMplsLdpSessionStatusChange
Objects : {  extremeMplsNotifLdpEntityLdpId, extremeMplsNotifLdpEntityIndex,
extremeMplsNotifLdpPeerLdpId, extremeMplsNotifLdpSessionState,
extremeMplsNotifLdpSessionDiscontinuityTime }
OID     : "1.3.6.1.4.1.1916.1.37.0.4"
object  : extremeMplsNotifLdpSessionDiscontinuityTime type : TimeStamp
object  : extremeMplsNotifLdpSessionState  type : INTEGER
object  : extremeMplsNotifLdpPeerLdpId     type : MplsLdpIdentifier
object  : extremeMplsNotifLdpEntityIndex   type : IndexInteger
object  : extremeMplsNotifLdpEntityLdpId   type : MplsLdpIdentifier
```

extremeMplsTunnelStatusChange

Description

This notification is generated when the mplsTunnelOperStatus object for a te-lsp transitions from up(1) to down(2) or from down(2) to up(1). This new state is indicated by the included value of mplsTunnelOperStatus.

Object ID

1.3.6.1.4.1.1916.1.37.0.3

```
Trap    : extremeMplsTunnelStatusChange
Objects : {  extremeMplsNotifTunnelIndex, extremeMplsNotifTunnelInstance,
extremeMplsNotifTunnelIngressLSRId, extremeMplsNotifTunnelEgressLSRId,
extremeMplsNotifTunnelAdminStatus, extremeMplsNotifTunnelOperStatus }
OID     : "1.3.6.1.4.1.1916.1.37.0.3"
object  : extremeMplsNotifTunnelOperStatus   type : INTEGER
object  : extremeMplsNotifTunnelAdminStatus  type : INTEGER
object  : extremeMplsNotifTunnelEgressLSRId  type : MplsExtendedTunnelId
object  : extremeMplsNotifTunnelIngressLSRId type : MplsExtendedTunnelId
object  : extremeMplsNotifTunnelInstance     type : MplsTunnelInstanceIndex
object  : extremeMplsNotifTunnelIndex        type : MplsTunnelIndex
```

extremeModuleStateChanged

Description

Signifies that the value of the extremeSlotModuleState for the specified extremeSlotNumber has changed. Traps will be reported only for significant states.

Object ID

1.3.6.1.4.1.1916.0.15

```
Trap    : extremeModuleStateChanged
Objects : {  sysUpTime, extremeSlotNumber, extremeSlotModuleConfiguredType,
extremeSlotModuleInsertedType, extremeSlotModuleState }
OID     : "1.3.6.1.4.1.1916.0.15"
object  : extremeSlotModuleState           type : INTEGER
object  : extremeSlotModuleInsertedType    type : SlotType
object  : extremeSlotModuleConfiguredType  type : SlotType
object  : extremeSlotNumber                type : Integer32
object  : sysUpTime                        type : TimeTicks
```

extremeMsmFailoverTrap

Description

MSM failover occurred.

Object ID

1.3.6.1.4.1.1916.4.1.0.5

```
Trap    : extremeMsmFailoverTrap
Objects : {  sysDescr, extremeMasterMSMSlot, extremeMsmFailoverCause }
OID     : "1.3.6.1.4.1.1916.4.1.0.5"
object  : extremeMsmFailoverCause          type : INTEGER
object  : extremeMasterMSMSlot             type : Integer32
object  : sysDescr                         type : DisplayString
```

extremeNetloginAuthFailure

Description

This trap will be generated upon authentication failure for a netlogin supplicant.

Object ID

1.3.6.1.4.1.1916.4.3.0.6

```
Trap    : extremeNetloginAuthFailure
Objects : {  extremeNetloginStationMac, extremeNetloginStationAddr,
extremeNetloginPortIfIndex, extremeNetloginAuthType, extremeNetloginSystemTime,
extremeNetloginUser, extremeNetloginSrcVlan, extremeNetloginDestVlan,
extremeNetloginSessionStatus, extremeNetloginMoveFromVlanList,
extremeNetloginMoveToVlanList }
OID     : "1.3.6.1.4.1.1916.4.3.0.6"
object  : extremeNetloginMoveToVlanList    type : DisplayString
object  : extremeNetloginMoveFromVlanList  type : DisplayString
object  : extremeNetloginSessionStatus     type : INTEGER
object  : extremeNetloginDestVlan          type : DisplayString
object  : extremeNetloginSrcVlan           type : DisplayString
object  : extremeNetloginUser              type : DisplayString
object  : extremeNetloginSystemTime        type : TimeStamp
object  : extremeNetloginAuthType          type : ClientAuthType
object  : extremeNetloginPortIfIndex       type : Integer32
object  : extremeNetloginStationAddr       type : IpAddress
object  : extremeNetloginStationMac        type : MacAddress
```

extremeNetloginUserLogin

Description

This trap will be generated when a netlogin supplicant passes authentication and logs in successfully into the network.

Object ID

1.3.6.1.4.1.1916.4.3.0.4

```
Trap    : extremeNetloginUserLogin
Objects : {  extremeNetloginStationMac, extremeNetloginStationAddr,
extremeNetloginPortIfIndex, extremeNetloginAuthType, extremeNetloginSystemTime,
extremeNetloginUser, extremeNetloginSrcVlan, extremeNetloginDestVlan,
extremeNetloginSessionStatus, extremeNetloginAuthDataBase,
extremeNetloginMoveFromVlanList, extremeNetloginMoveToVlanList }
OID     : "1.3.6.1.4.1.1916.4.3.0.4"
object  : extremeNetloginMoveToVlanList    type : DisplayString
object  : extremeNetloginMoveFromVlanList  type : DisplayString
object  : extremeNetloginAuthDataBase      type : DisplayString
object  : extremeNetloginSessionStatus     type : INTEGER
object  : extremeNetloginDestVlan          type : DisplayString
object  : extremeNetloginSrcVlan           type : DisplayString
object  : extremeNetloginUser              type : DisplayString
object  : extremeNetloginSystemTime        type : TimeStamp
object  : extremeNetloginAuthType          type : ClientAuthType
object  : extremeNetloginPortIfIndex       type : Integer32
object  : extremeNetloginStationAddr       type : IpAddress
object  : extremeNetloginStationMac        type : MacAddress
```

extremeNetloginUserLogout

Description

This trap will be generated when a netlogin supplicant logs out. This trap is meant to notify logout event only for already authenticated and logged in supplicant.

Object ID

1.3.6.1.4.1.1916.4.3.0.5

```
Trap    : extremeNetloginUserLogout
Objects : {  extremeNetloginStationMac, extremeNetloginStationAddr,
extremeNetloginPortIfIndex, extremeNetloginAuthType, extremeNetloginSystemTime,
extremeNetloginUser, extremeNetloginSrcVlan, extremeNetloginDestVlan,
extremeNetloginSessionStatus, extremeNetloginMoveFromVlanList,
extremeNetloginMoveToVlanList }
OID     : "1.3.6.1.4.1.1916.4.3.0.5"
object  : extremeNetloginMoveToVlanList    type : DisplayString
object  : extremeNetloginMoveFromVlanList  type : DisplayString
object  : extremeNetloginSessionStatus     type : INTEGER
object  : extremeNetloginDestVlan          type : DisplayString
object  : extremeNetloginSrcVlan           type : DisplayString
object  : extremeNetloginUser              type : DisplayString
object  : extremeNetloginSystemTime        type : TimeStamp
object  : extremeNetloginAuthType          type : ClientAuthType
object  : extremeNetloginPortIfIndex       type : Integer32
object  : extremeNetloginStationAddr       type : IpAddress
object  : extremeNetloginStationMac        type : MacAddress
```

extremeOspfv3IfConfigError

Description

An extremeOspfv3IfConfigError notification signifies that a packet has been received on a non-virtual interface from a router whose configuration parameters conflict with this router's configuration parameters. Note that the event optionMismatch should cause a notification only if it prevents an adjacency from forming.

Object ID

1.3.6.1.4.1.1916.1.50.0.4

```
Trap    : extremeOspfv3IfConfigError
Objects : {  extremeOspfv3RouterId, extremeOspfv3IfState, extremeOspfv3PacketSrc,
extremeOspfv3ConfigErrorType, extremeOspfv3PacketType }
OID     : "1.3.6.1.4.1.1916.1.50.0.4"
object  : extremeOspfv3RouterId            type : ExtremeOspfv3RouterIdTc
object  : extremeOspfv3IfState             type : INTEGER
object  : extremeOspfv3PacketSrc           type : InetAddressIPv6
object  : extremeOspfv3ConfigErrorType     type : INTEGER
object  : extremeOspfv3PacketType          type : INTEGER
```

extremeOspfv3IfStateChange

Description

An extremeOspfv3IfStateChange notification signifies that there has been a change in the state of a non-virtual OSPFv3 interface. This notification should be generated when the interface state regresses (e.g., goes from DR to Down) or progresses to a terminal state (i.e., Point-to-Point, DR Other, DR, or Backup).

Object ID

1.3.6.1.4.1.1916.1.50.0.6

```
Trap    : extremeOspfv3IfStateChange
Objects : {  extremeOspfv3RouterId, extremeOspfv3IfState }
OID     : "1.3.6.1.4.1.1916.1.50.0.6"
object  : extremeOspfv3RouterId            type : ExtremeOspfv3RouterIdTc
object  : extremeOspfv3IfState             type : INTEGER
```

extremeOspfv3NbrRestartHelperStatusChange

Description

An extremeOspfv3NbrRestartHelperStatusChange notification signifies that there has been a change in the graceful restart helper state for the neighbor. This notification should be generated when the neighbor restart helper status transitions for a neighbor.

Object ID

1.3.6.1.4.1.1916.1.50.0.8

```
Trap    : extremeOspfv3NbrRestartHelperStatusChange
Objects : {  extremeOspfv3RouterId, extremeOspfv3NbrRestartHelperStatus,
extremeOspfv3NbrRestartHelperAge, extremeOspfv3NbrRestartHelperExitRc }
OID     : "1.3.6.1.4.1.1916.1.50.0.8"
object  : extremeOspfv3RouterId               type : ExtremeOspfv3RouterIdTc
object  : extremeOspfv3NbrRestartHelperStatus type : INTEGER
object  : extremeOspfv3NbrRestartHelperAge    type : ExtremeOspfv3UpToRefreshIntervalTc
object  : extremeOspfv3NbrRestartHelperExitRc type : INTEGER
```

extremeOspfv3NbrStateChange

Description

An extremeOspfv3NbrStateChange notification signifies that there has been a change in the state of a non-virtual OSPFv3 neighbor. This notification should be generated when the neighbor state regresses (e.g., goes from Attempt or Full to 1-Way or own) or progresses to a terminal state (e.g., 2-Way or Full). When a neighbor transitions from or to Full on non-broadcast multi-access and broadcast networks, the notification should be generated by the Designated Router. A Designated Router transitioning to Down will be noted by ospfIfStateChange.

Object ID

1.3.6.1.4.1.1916.1.50.0.2

```
Trap    : extremeOspfv3NbrStateChange
Objects : {  extremeOspfv3RouterId, extremeOspfv3NbrState }
OID     : "1.3.6.1.4.1.1916.1.50.0.2"
object  : extremeOspfv3RouterId            type : ExtremeOspfv3RouterIdTc
object  : extremeOspfv3NbrState            type : INTEGER
```

extremeOspfv3NssaTranslatorStatusChange

Description

An extremeOspfv3NssaTranslatorStatusChange notification indicates that there has been a change in the router's ability to translate OSPFv3 NSSA LSAs into OSPFv3 External LSAs. This notification should be generated when the Translator Status transitions from or to any defined status on a per-area basis.

Object ID

1.3.6.1.4.1.1916.1.50.0.7

```
Trap    : extremeOspfv3NssaTranslatorStatusChange
Objects : {  extremeOspfv3RouterId, extremeOspfv3AreaNssaTranslatorState }
OID     : "1.3.6.1.4.1.1916.1.50.0.7"
object  : extremeOspfv3RouterId               type : ExtremeOspfv3RouterIdTc
object  : extremeOspfv3AreaNssaTranslatorState type : INTEGER
```

extremeOspfv3VirtIfConfigError

Description

An extremeOspfv3VirtIfConfigError notification signifies that a packet has been received on a virtual interface from a router whose configuration parameters conflict with this router's configuration parameters. Note that the event optionMismatch should cause a notification only if it prevents an adjacency from forming.

Object ID

1.3.6.1.4.1.1916.1.50.0.5

```
Trap    : extremeOspfv3VirtIfConfigError
Objects : {  extremeOspfv3RouterId, extremeOspfv3VirtIfState,
extremeOspfv3ConfigErrorType, extremeOspfv3PacketType }
OID     : "1.3.6.1.4.1.1916.1.50.0.5"
object  : extremeOspfv3RouterId            type : ExtremeOspfv3RouterIdTc
object  : extremeOspfv3VirtIfState         type : INTEGER
object  : extremeOspfv3ConfigErrorType     type : INTEGER
object  : extremeOspfv3PacketType          type : INTEGER
```

extremeOspfv3VirtIfStateChange

Description

An extremeOspfv3VirtIfStateChange notification signifies that there has been a change in the state of an OSPFv3 virtual interface.

This notification should be generated when the interface state regresses (e.g., goes from Point-to-Point to Down) or progresses to a terminal state (i.e., Point-to-Point).

Object ID

1.3.6.1.4.1.1916.1.50.0.1

```
Trap    : extremeOspfv3VirtIfStateChange
Objects : {  extremeOspfv3RouterId, extremeOspfv3VirtIfState }
OID     : "1.3.6.1.4.1.1916.1.50.0.1"
object  : extremeOspfv3RouterId            type : ExtremeOspfv3RouterIdTc
object  : extremeOspfv3VirtIfState         type : INTEGER
```

extremeOspfv3VirtNbrRestartHelperStatusChange

Description

An extremeOspfv3VirtNbrRestartHelperStatusChange notification signifies that there has been a change in the graceful restart helper state for the virtual neighbor. This notification should be generated when the virtual neighbor restart helper status transitions for a virtual neighbor.

Object ID

1.3.6.1.4.1.1916.1.50.0.9

```
Trap    : extremeOspfv3VirtNbrRestartHelperStatusChange
Objects : {  extremeOspfv3RouterId, extremeOspfv3VirtNbrRestartHelperStatus,
extremeOspfv3VirtNbrRestartHelperAge, extremeOspfv3VirtNbrRestartHelperExitRc }
OID     : "1.3.6.1.4.1.1916.1.50.0.9"
object  : extremeOspfv3RouterId                  type : ExtremeOspfv3RouterIdTc
object  : extremeOspfv3VirtNbrRestartHelperStatus type : INTEGER
object  : extremeOspfv3VirtNbrRestartHelperAge    type :
ExtremeOspfv3UpToRefreshIntervalTc
object  : extremeOspfv3VirtNbrRestartHelperExitRc type : INTEGER
```

extremeOspfv3VirtNbrStateChange

Description

An extremeOspfv3VirtNbrStateChange notification signifies that there has been a change in the state of an OSPFv3 virtual neighbor. This notification should be generated when the neighbor state regresses (e.g., goes from Attempt or Full to 1-Way or Down) or progresses to a terminal state (e.g., Full).

Object ID

1.3.6.1.4.1.1916.1.50.0.3

```
Trap    : extremeOspfv3VirtNbrStateChange
Objects : {  extremeOspfv3RouterId, extremeOspfv3VirtNbrState }
OID     : "1.3.6.1.4.1.1916.1.50.0.3"
object  : extremeOspfv3RouterId            type : ExtremeOspfv3RouterIdTc
object  : extremeOspfv3VirtNbrState        type : INTEGER
```

extremeOverheat

Description

An overheat notification indicates that the on-board temperature sensor has reported a temperature that is outside the normal operating range (either higher than the maximum or lower than the minimum of the range) and the switch is in an overheat (or overcold) condition.

Object ID

1.3.6.1.4.1.1916.0.6

```
Trap    : extremeOverheat
Objects : {  sysUpTime, sysDescr, extremeCurrentTemperature }
OID     : "1.3.6.1.4.1.1916.0.6"
object  : extremeCurrentTemperature        type : INTEGER
object  : sysDescr                         type : DisplayString
object  : sysUpTime                        type : TimeTicks
```

extremeOverheatNormal

Description

An overheat (return to) normal notification indicates that the on-board tempature sensor has reported a temperature that has returned to within the normal operating range from having been in an overheat (or overcold) condition. The temperature of the unit has sufficiently cooled to be below the maximum (or warmed to be above the minimum) of the normal operating range.

Object ID

1.3.6.1.4.1.1916.4.1.0.8

```
Trap    : extremeOverheatNormal
Objects : {  sysDescr, extremeCurrentTemperature }
OID     : "1.3.6.1.4.1.1916.4.1.0.8"
object  : extremeCurrentTemperature        type : INTEGER
object  : sysDescr                         type : DisplayString
```

extremePortMauRestrictionTrap

Description

This trap is sent whenever a restricted MAU is inserted or removed, or a port attached to a restricted MAU is enabled.

Object ID

1.3.6.1.4.1.1916.1.4.13.2.0.2

```
Trap    : extremePortMauRestrictionTrap
Objects : {  ifIndex, extremePortMauRestrict }
OID     : "1.3.6.1.4.1.1916.1.4.13.2.0.2"
object  : ifIndex                          type : InterfaceIndex
object  : extremePortMauRestrict           type : DisplayString
```

extremePowerSupplyFail

Description

One or more sources of power to this agent has failed. Presumably a redundant power-supply has taken over.

Object ID

1.3.6.1.4.1.1916.0.10

```
Trap    : extremePowerSupplyFail
Objects : {  sysUpTime, sysDescr, extremePowerSupplyNumber }
OID     : "1.3.6.1.4.1.1916.0.10"
object  : sysUpTime                       type : TimeTicks
object  : sysDescr                        type : DisplayString
object  : extremePowerSupplyNumber        type : Integer32
```

extremePowerSupplyGood

Description

One or more previously bad sources of power to this agent has come back to life without causing an agent restart.

Object ID

1.3.6.1.4.1.1916.0.11

```
Trap    : extremePowerSupplyGood
Objects : {  sysUpTime, sysDescr, extremePowerSupplyNumber }
OID     : "1.3.6.1.4.1.1916.0.11"
object  : sysUpTime                       type : TimeTicks
object  : sysDescr                        type : DisplayString
object  : extremePowerSupplyNumber        type : Integer32
```

extremePsuPowerStatus

Description

Trap to indicate change in status of Power Supply.

Object ID

1.3.6.1.4.1.1916.1.1.6.0.3

```
Trap    : extremePsuPowerStatus
Objects : {  sysDescr, extremePowerSupplyNumber, extremePowerSupplyStatus }
OID     : "1.3.6.1.4.1.1916.1.1.6.0.3"
object  : sysDescr                        type : DisplayString
object  : extremePowerSupplyNumber        type : Integer32
object  : extremePowerSupplyStatus        type : INTEGER
```

extremePwDeleted

Description

This notification is generated when a PW has been deleted.

Object ID

1.3.6.1.4.1.1916.1.37.0.2

```
Trap    : extremePwDeleted
Objects : {  extremePwNotificationPwIndex, extremePwNotificationPeerAddrType,
extremePwNotificationPeerAddr }
OID     : "1.3.6.1.4.1.1916.1.37.0.2"
object  : extremePwNotificationPeerAddr     type : InetAddress
object  : extremePwNotificationPeerAddrType type : InetAddressType
object  : extremePwNotificationPwIndex      type : PwIndexType
```

extremePwLspAdded

Description

This notification is generated when an entry is added to the extremePwLspOutboundMappingTable table and the extremePwLspPerfTable table.

Object ID

1.3.6.1.4.1.1916.1.37.0.6

```
Trap    : extremePwLspAdded
Objects : {  extremePwNotificationPwIndex, extremePwNotificationLspIndex }
OID     : "1.3.6.1.4.1.1916.1.37.0.6"
object  : extremePwNotificationLspIndex    type : Unsigned32
object  : extremePwNotificationPwIndex     type : PwIndexType
```

extremePwLspDeleted

Description

This notification is generated when an entry is deleted from the extremePwLspOutboundMappingTable table and the extremePwLspPerfTable table.

Object ID

1.3.6.1.4.1.1916.1.37.0.7

```
Trap    : extremePwLspDeleted
Objects : {  extremePwNotificationPwIndex, extremePwNotificationLspIndex }
OID     : "1.3.6.1.4.1.1916.1.37.0.7"
object  : extremePwNotificationLspIndex    type : Unsigned32
object  : extremePwNotificationPwIndex     type : PwIndexType
```

extremePwStatusChange

Description

This notification is generated when the pwOperStatus object for a pseudowire transitions from up (1) to down (2) or from down (2) to up (1).

Object ID

1.3.6.1.4.1.1916.1.37.0.1

```
Trap    : extremePwStatusChange
Objects : {  extremePwNotificationPwIndex, extremePwNotificationPwOperStatus }
OID     : "1.3.6.1.4.1.1916.1.37.0.1"
object  : extremePwNotificationPwOperStatus type : PwOperStatusTC
object  : extremePwNotificationPwIndex      type : PwIndexType
```

extremeRateLimitExceededAlarm

Description

This Notification indicates the first time a poll of a Rate-Limited Port has a non-zero counter.

Object ID

1.3.6.1.4.1.1916.1.4.16

```
Trap    : extremeRateLimitExceededAlarm
Objects : {  ifIndex }
OID     : "1.3.6.1.4.1.1916.1.4.16"
object  : ifIndex                          type : InterfaceIndex
```

extremeRCSSHAuthFailed

Description

When an SSH authentication request is failed, this trap is sent with details of username, IP address and time of attempt.

Object ID

1.3.6.1.4.1.1916.1.53.0.6

```
Trap    : extremeRCSSHAuthFailed
Objects : {  extremeRCSSHLastAuthFailUser, extremeRCSSHLastAuthFailType,
extremeRCSSHLastAuthFailHost, extremeRCSSHLastAuthFailTime }
OID     : "1.3.6.1.4.1.1916.1.53.0.6"
object  : extremeRCSSHLastAuthFailUser     type : DisplayString
object  : extremeRCSSHLastAuthFailType     type : InetAddressType
object  : extremeRCSSHLastAuthFailHost     type : InetAddress
object  : extremeRCSSHLastAuthFailTime     type : DisplayString
```

extremeRCSSHSessionLogin

Description

When a user logs in through SSH, this trap is sent with information of IP address of user and time of login.

Object ID

1.3.6.1.4.1.1916.1.53.0.4

```
Trap    : extremeRCSSHSessionLogin
Objects : {  extremeRCSSHLastLoginType, extremeRCSSHLastLoginHost,
extremeRCSSHLastLoginTime }
OID     : "1.3.6.1.4.1.1916.1.53.0.4"
object  : extremeRCSSHLastLoginType        type : InetAddressType
object  : extremeRCSSHLastLoginHost        type : InetAddress
object  : extremeRCSSHLastLoginTime        type : DisplayString
```

extremeRCSSHSessionLogout

Description

When a user logs out of an SSH session, this trap is sent with information of IP address of user and time of logout.

Object ID

1.3.6.1.4.1.1916.1.53.0.5

```
Trap    : extremeRCSSHSessionLogout
Objects : {  extremeRCSSHLastLogoutType, extremeRCSSHLastLogoutHost,
extremeRCSSHLastLogoutTime }
OID     : "1.3.6.1.4.1.1916.1.53.0.5"
object  : extremeRCSSHLastLogoutType       type : InetAddressType
object  : extremeRCSSHLastLogoutHost       type : InetAddress
object  : extremeRCSSHLastLogoutTime       type : DisplayString
```

extremeRCTelnetAuthFailed

Description

When a telnet authentication request is failed, this trap is sent with details of username, IP address and time of attempt.

Object ID

1.3.6.1.4.1.1916.1.53.0.3

```
Trap    : extremeRCTelnetAuthFailed
Objects : {  extremeRCTelnetLastAuthFailUser, extremeRCTelnetLastAuthFailType,
extremeRCTelnetLastAuthFailHost, extremeRCTelnetLastAuthFailTime }
OID     : "1.3.6.1.4.1.1916.1.53.0.3"
object  : extremeRCTelnetLastAuthFailUser  type : DisplayString
object  : extremeRCTelnetLastAuthFailType  type : InetAddressType
object  : extremeRCTelnetLastAuthFailHost  type : InetAddress
object  : extremeRCTelnetLastAuthFailTime  type : DisplayString
```

extremeRCTelnetSessionLogin

Description

When a user logs in through telnet, this trap is sent with information of IP address of and time of login.

Object ID

1.3.6.1.4.1.1916.1.53.0.1

```
Trap    : extremeRCTelnetSessionLogin
Objects : {  extremeRCTelnetLastLoginType, extremeRCTelnetLastLoginHost,
extremeRCTelnetLastLoginTime }
OID     : "1.3.6.1.4.1.1916.1.53.0.1"
object  : extremeRCTelnetLastLoginType     type : InetAddressType
object  : extremeRCTelnetLastLoginHost     type : InetAddress
object  : extremeRCTelnetLastLoginTime     type : DisplayString
```

extremeRCTelnetSessionLogout

Description

When a user logs out of a telnet session, this trap is sent with information of IP address of user and time of logout.

Object ID

1.3.6.1.4.1.1916.1.53.0.2

```
Trap    : extremeRCTelnetSessionLogout
Objects : {  extremeRCTelnetLastLogoutType, extremeRCTelnetLastLogoutHost,
extremeRCTelnetLastLogoutTime }
OID     : "1.3.6.1.4.1.1916.1.53.0.2"
object  : extremeRCTelnetLastLogoutType    type : InetAddressType
object  : extremeRCTelnetLastLogoutHost    type : InetAddress
object  : extremeRCTelnetLastLogoutTime    type : DisplayString
```

extremeServiceLicenseExpiration

Description

The service expiry notification is generated about 90 days service contract expiration, then 60, 30, 7 days and daily after that.

Object ID

1.3.6.1.4.1.1916.1.32.3.0.2

```
Trap    : extremeServiceLicenseExpiration
Objects : {  extremeServiceLicenseExpiryDate, extremeServiceLicenseType,
imageDescription, noOfDaysLeft }
OID     : "1.3.6.1.4.1.1916.1.32.3.0.2"
object  : noOfDaysLeft                    type : INTEGER
object  : imageDescription                type : DisplayString
object  : extremeServiceLicenseType       type : DisplayString
object  : extremeServiceLicenseExpiryDate  type : DisplayString
```

extremeStackingPortStatusChanged

Description

The extremeStackingPortStatusChanged notification is generated when the operational status of the stacking port changes.

Object ID

1.3.6.1.4.1.1916.1.33.4.0.3

```
Trap    : extremeStackingPortStatusChanged
Objects : {  ifIndex, extremeStackingPortRemoteMac, extremeStackingPortLinkSpeed,
extremeStackingPortLinkStatus }
OID     : "1.3.6.1.4.1.1916.1.33.4.0.3"
object  : extremeStackingPortLinkStatus    type : INTEGER
object  : extremeStackingPortLinkSpeed     type : Unsigned32
object  : extremeStackingPortRemoteMac     type : MacAddress
object  : ifIndex                          type : INTEGER
```

extremeStackMemberOverheat

Description

The extremeStackMemberOverheat notification is generated when the temperature of the stack member reaches the threshold temperature.

Object ID

1.3.6.1.4.1.1916.1.33.4.0.1

```
Trap    : extremeStackMemberOverheat
Objects : {  sysUpTime, sysDescr, extremeCurrentTemperature, extremeStackMemberSlotId }
OID     : "1.3.6.1.4.1.1916.1.33.4.0.1"
object  : extremeStackMemberSlotId         type : INTEGER
object  : extremeCurrentTemperature        type : INTEGER
object  : sysDescr                         type : DisplayString
object  : sysUpTime                        type : TimeTicks
```

extremeStackMemberStatusChanged

Description

The extremeStackMemberStatusChanged notification is generated when the operational status of the stack member changes.

Object ID

1.3.6.1.4.1.1916.1.33.4.0.2

```
Trap    : extremeStackMemberStatusChanged
Objects : {  extremeStackMemberSlotId, extremeStackMemberOperStatus }
OID     : "1.3.6.1.4.1.1916.1.33.4.0.2"
object  : extremeStackMemberOperStatus     type : INTEGER
object  : extremeStackMemberSlotId         type : INTEGER
```

extremeStpPortLoopProtectEventDetected

Description

A Loop protect event has been detected.

Object ID

1.3.6.1.4.1.1916.1.17.4.0.2

```
Trap    : extremeStpPortLoopProtectEventDetected
Objects : {  extremeStpDomainPortInstance }
OID     : "1.3.6.1.4.1.1916.1.17.4.0.2"
object  : extremeStpDomainPortInstance     type : Integer32
```

extremeStpEdgePortLoopDetected

Description

A Loop has been detected and the port will be disabled.

Object ID

1.3.6.1.4.1.1916.1.17.4.0.1

```
Trap    : extremeStpEdgePortLoopDetected
Objects : {  extremeStpDomainStpdInstance, extremeStpDomainPortInstance }
OID     : "1.3.6.1.4.1.1916.1.17.4.0.1"
object  : extremeStpDomainPortInstance     type : Integer32
object  : extremeStpDomainStpdInstance     type : Integer32
```

extremeSwMonitorCpuUtilization

Description

Notification of process exceeding CPU utilization threshold. Notification is send every extremeCpuMonitorInterval value in seconds until utilization falls below threshold.

Object ID

1.3.6.1.4.1.1916.1.32.3.0.1

```
Trap    : extremeSwMonitorCpuUtilization
Objects : {  extremeCpuMonitorSlotId, extremeCpuMonitorProcessName,
extremeCpuMonitorCurrentUtilization, extremeCpuMonitorThreshold }
OID     : "1.3.6.1.4.1.1916.1.32.3.0.1"
object  : extremeCpuMonitorThreshold          type : INTEGER
object  : extremeCpuMonitorCurrentUtilization type : DisplayString
object  : extremeCpuMonitorProcessName        type : DisplayString
object  : extremeCpuMonitorSlotId             type : Unsigned32
```

extremeSwMonitorCpuUtilizationNormal

Description

Notification of process CPU utilization falling below threshold. The generation of this notification corresponds with the extremeSwMonitorCpuUtilization (CPU excessed threshold) notification. When the CPU utilization of the process that triggered the extremeSwMonitorCpuUtilization notification falls back below the configured threshold, this (return to normal) notification will be generated.

Object ID

1.3.6.1.4.1.1916.1.32.3.0.4

```
Trap    : extremeSwMonitorCpuUtilizationNormal
Objects : {  extremeCpuMonitorSlotId, extremeCpuMonitorProcessName,
extremeCpuMonitorCurrentUtilization, extremeCpuMonitorThreshold }
OID     : "1.3.6.1.4.1.1916.1.32.3.0.4"
object  : extremeCpuMonitorThreshold          type : INTEGER
object  : extremeCpuMonitorCurrentUtilization type : DisplayString
object  : extremeCpuMonitorProcessName        type : DisplayString
object  : extremeCpuMonitorSlotId             type : Unsigned32
```

extremeSystemPowerUsageNotification

Description

Whenever the power usage is increased/decreased by the configured threshold value then the power usage trap is generated if the trap is enabled.

Object ID

1.3.6.1.4.1.1916.1.1.6.0.4

```
Trap    : extremeSystemPowerUsageNotification
Objects : {  sysUpTime, sysDescr, extremeSystemPowerUsageValue,
extremeSystemPowerUsageUnitMultiplier }
OID     : "1.3.6.1.4.1.1916.1.1.6.0.4"
object  : extremeSystemPowerUsageUnitMultiplier type : UnitMultiplier
object  : extremeSystemPowerUsageValue     type : Integer32
object  : sysDescr                         type : DisplayString
object  : sysUpTime                        type : TimeTicks
```

extremeTrialLicenseExpiration

Description

Trial license expiry notification is generated every day.

Object ID

1.3.6.1.4.1.1916.1.32.3.0.3

```
Trap    : extremeTrialLicenseExpiration
Objects : {  trialPeriod, imageDescription, noOfDaysLeft }
OID     : "1.3.6.1.4.1.1916.1.32.3.0.3"
object  : noOfDaysLeft                    type : INTEGER
object  : imageDescription                type : DisplayString
object  : trialPeriod                     type : INTEGER
```

extremeUnauthorizedPortForMacDetected

Description

This trap will be generated when a MAC Address is learnt on a port on which it is not not authorized. This will happen when the MAC address is statically configured as a 'secure mac' on some other port(s).

Object ID

1.3.6.1.4.1.1916.4.3.0.2

```
Trap    : extremeUnauthorizedPortForMacDetected
Objects : {  extremeMacSecurityVlanIfIndex, extremeMacSecurityVlanDescr,
extremeMacSecurityVlanId, extremeMacSecurityMacAddress, extremeMacSecurityPortIfIndex }
OID     : "1.3.6.1.4.1.1916.4.3.0.2"
object  : extremeMacSecurityPortIfIndex    type : Integer32
object  : extremeMacSecurityMacAddress     type : MacAddress
object  : extremeMacSecurityVlanId         type : Integer32
object  : extremeMacSecurityVlanDescr      type : DisplayString
object  : extremeMacSecurityVlanIfIndex    type : Integer32
```

extremeVMDetectResult

Description

This notification is generated after a VM is detected on a port and reflects the result of that operation.

Object ID

1.3.6.1.4.1.1916.1.39.5.0.5

```
Trap    : extremeVMDetectResult
Objects : {  extremeVMDetectedMAC, extremeVMDetectedIfIndex,
extremeVMDetectedIngressVPPName, extremeVMDetectedEgressVPPName,
extremeVMDetectedResultIngress, extremeVMDetectedResultEgress,
extremeVMDetectedOperStatus, extremeVMDetectedIngErrPolicies,
extremeVMDetectedEgrErrPolicies, extremeVMDetectedVPPResult, extremeVMDetectedVPPName,
extremeVMDetectedCounterInstallResult }
OID     : "1.3.6.1.4.1.1916.1.39.5.0.5"
object  : extremeVMDetectedMAC             type : MacAddress
object  : extremeVMDetectedIfIndex         type : Integer32
object  : extremeVMDetectedIngressVPPName  type : DisplayString
object  : extremeVMDetectedEgressVPPName   type : DisplayString
object  : extremeVMDetectedResultIngress   type : INTEGER
object  : extremeVMDetectedResultEgress    type : INTEGER
object  : extremeVMDetectedOperStatus      type : INTEGER
object  : extremeVMDetectedIngErrPolicies  type : OctetString
object  : extremeVMDetectedEgrErrPolicies  type : OctetString
object  : extremeVMDetectedVPPResult       type : INTEGER
object  : extremeVMDetectedVPPName         type : DisplayString
object  : extremeVMDetectedCounterInstallResult type : CounterDirection
```

extremeVMMapped

Description

This notification is generated whenever a MAC is manually mapped to a local policy.

Object ID

1.3.6.1.4.1.1916.1.39.5.0.3

```
Trap    : extremeVMMapped
Objects : {  extremeVMMappingMAC, extremeVMMappingIngressVPPName,
extremeVMMappingEgressVPPName, extremeVMMappingVPPName }
OID     : "1.3.6.1.4.1.1916.1.39.5.0.3"
object  : extremeVMMappingMAC              type : MacAddress
object  : extremeVMMappingIngressVPPName   type : DisplayString
object  : extremeVMMappingEgressVPPName    type : DisplayString
object  : extremeVMMappingVPPName          type : DisplayString
```

extremeVMUnDetectResult

Description

This notification is generated after a VM is undetected (removed) from a port.

Object ID

1.3.6.1.4.1.1916.1.39.5.0.6

```
Trap    : extremeVMUnDetectResult
Objects : {  extremeVMDetectedMAC, extremeVMDetectedIfIndex }
OID     : "1.3.6.1.4.1.1916.1.39.5.0.6"
object  : extremeVMDetectedMAC             type : MacAddress
object  : extremeVMDetectedIfIndex         type : Integer32
```

extremeVMUnMapped

Description

This notification is generated whenever a MAC is manually unmapped to a local policy.

Object ID

1.3.6.1.4.1.1916.1.39.5.0.4

```
Trap    : extremeVMUnMapped
Objects : {  extremeVMMappingMAC, extremeVMMappingIngressVPPName,
extremeVMMappingEgressVPPName, extremeVMMappingVPPName }
OID     : "1.3.6.1.4.1.1916.1.39.5.0.4"
object  : extremeVMMappingMAC              type : MacAddress
object  : extremeVMMappingIngressVPPName   type : DisplayString
object  : extremeVMMappingEgressVPPName    type : DisplayString
object  : extremeVMMappingVPPName          type : DisplayString
```

extremeVMVPPInvalid

Description

A virutal port profile definition is invalid, indicating it cannot be applied to a port.

Object ID

1.3.6.1.4.1.1916.1.39.5.0.2

```
Trap    : extremeVMVPPInvalid
Objects : {  extremeVMVPPType, extremeVMVPPName }
OID     : "1.3.6.1.4.1.1916.1.39.5.0.2"
object  : extremeVMVPPType                type : INTEGER
object  : extremeVMVPPName                type : DisplayString
```

extremeVMVPPSyncFailed

Description

A synchronization attempt failed.

Object ID

1.3.6.1.4.1.1916.1.39.5.0.1

```
Trap    : extremeVMVPPSyncFailed
Objects : {  extremeVMFTPServer, extremeVMFTPAddrType, extremeVMFTPServerType,
extremeVMLastSynchStatus, extremeVMVPPName, extremeVMVPPSynchType }
OID     : "1.3.6.1.4.1.1916.1.39.5.0.1"
object  : extremeVMFTPServer               type : InetAddress
object  : extremeVMFTPAddrType             type : InetAddressType
object  : extremeVMFTPServerType           type : INTEGER
object  : extremeVMLastSynchStatus         type : INTEGER
object  : extremeVMVPPName                 type : DisplayString
object  : extremeVMVPPSynchType            type : VMVPPSynchType
```

extremeVplsStatusChange

Description

This notification is generated to inform recepients of the state of the Vpls.

When all pseudowires in this Vpls are up or ready and the attachment circuit is up, extremeVplsNotifStatusOperStatus is set to vplsOperStatusUp(1) in the notification.

When at least one pseudowire in this Vpls is up or ready and the attachment circuit is up, extremeVplsNotifStatusOperStatus is set to vplsOperStatusDegraded(2) in the notification.

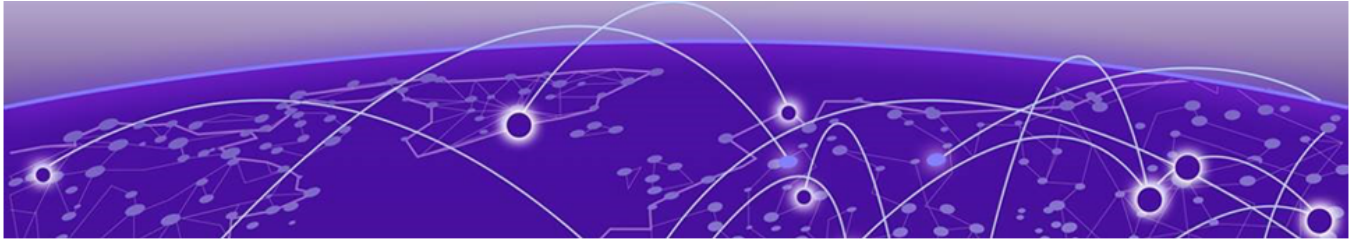
When all pseudowires in this Vpls are down or the attachment circuit is down, extremeVplsNotifStatusOperStatus is set to vplsOperStatusDown(3) in the notification.

Once a notification has been sent with vplsOperStatusDegraded(2), no further notification will be sent untill extremeVplsNotifStatusOperStatus transitions to vplsOperStatusUp(1) or vplsOperStatusDown(3).

Object ID

1.3.6.1.4.1.1916.1.37.0.5

```
Trap    : extremeVplsStatusChange
Objects : {  extremeVplsNotifConfigIndex, extremeVplsNotifConfigVpnId,
extremeVplsNotifConfigAdminStatus, extremeVplsNotifStatusOperStatus }
OID     : "1.3.6.1.4.1.1916.1.37.0.5"
object  : extremeVplsNotifStatusOperStatus  type : INTEGER
object  : extremeVplsNotifConfigAdminStatus type : INTEGER
object  : extremeVplsNotifConfigVpnId       type : VPNIdOrZero
object  : extremeVplsNotifConfigIndex       type : Unsigned32
```



IPv6 Traps

ipv6IfStateChange on page 156

The following topics are a catalog of the IPv6 trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

ipv6IfStateChange

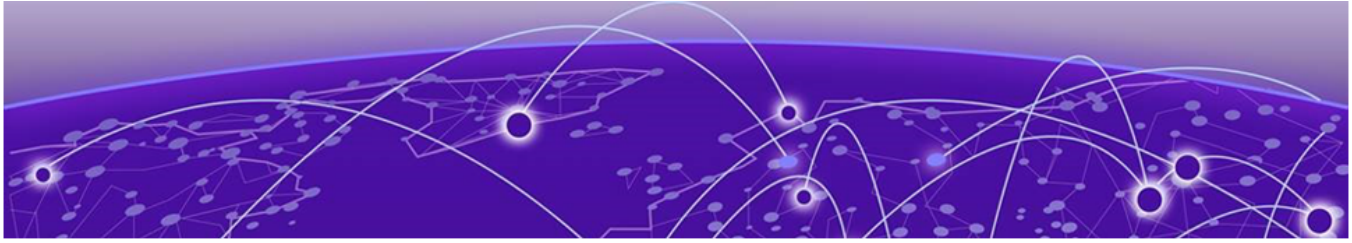
Description

An ipv6IfStateChange notification signifies that there has been a change in the state of an ipv6 interface. This notification should be generated when the interface's operational status transitions to or from the up(1) state.

Object ID

1.3.6.1.2.1.55.2.0.1

```
Trap    : ipv6IfStateChange
Objects : {  ipv6IfDescr, ipv6IfOperStatus }
OID     : "1.3.6.1.2.1.55.2.0.1"
object  : ipv6IfOperStatus                type : INTEGER
object  : ipv6IfDescr                     type : DisplayString
```



IS-IS Traps

isisAdjacencyChange on page 158
isisAreaMismatch on page 159
isisAttemptToExceedMaxSequence on page 160
isisAuthenticationFailure on page 161
isisAuthenticationTypeFailure on page 162
isisCorruptedLSPDetected on page 163
isisDatabaseOverload on page 164
isisIDLenMismatch on page 165
isisLSPTooLargeToPropagate on page 166
isisManualAddressDrops on page 167
isisMaxAreaAddressesMismatch on page 168
isisOriginatingLSPBufferSizeMismatch on page 169
isisOwnLSPPurge on page 170
isisProtocolsSupportedMismatch on page 171
isisRejectedAdjacency on page 172
isisSequenceNumberSkip on page 173
isisVersionSkew on page 174

The following topics are a catalog of the Intermediate System to Intermediate System (IS-IS) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

isisAdjacencyChange

Description

A notification sent when an adjacency changes state, entering or leaving state up.

Object ID

1.3.6.1.3.37.2.0.17

```
Trap    : isisAdjacencyChange
Objects : {  isisSystemLevel, isisCircIfIndex, isisTrapLSPID, isisAdjState }
OID     : "1.3.6.1.3.37.2.0.17"
object  : isisAdjState                    type : INTEGER
object  : isisTrapLSPID                   type : LinkStatePDUID
object  : isisCircIfIndex                 type : Integer32
object  : isisSystemLevel                 type : ISLevel
```

isisAreaMismatch

Description

A notification sent when we receive a Hello PDU from an IS which does not share any area address. This notification includes the header of the packet, which may help a network manager identify the source of the confusion.

This should be an edge-triggered notification. We should not send a second notification about PDUs received from what seem to be the same source. This decision is up to the agent to make, and may be based on the circuit or on some MAC level information.

Object ID

1.3.6.1.3.37.2.0.12

```
Trap    : isisAreaMismatch
Objects : {  isisSystemInstance, isisSystemLevel, isisCircIfIndex, isisPDUFragment }
OID     : "1.3.6.1.3.37.2.0.12"
object  : isisPDUFragment                type : IsisPDUHeader
object  : isisCircIfIndex                type : Integer32
object  : isisSystemLevel                type : ISLevel
object  : isisSystemInstance             type : Unsigned32
```

isisAttemptToExceedMaxSequence

Description

When the sequence number on an LSP we generate wraps the 32 bit sequence counter, we purge and wait to re-announce this information. This otification describes that event. Since these should not be generated rapidly, we generate an event each time this happens.

While the first 6 bytes of the LSPID are ours, the other two contain useful information.

Object ID

1.3.6.1.3.37.2.0.4

```
Trap    : isisAttemptToExceedMaxSequence
Objects : {  isisSystemInstance, isisSystemLevel, isisTrapLSPID }
OID     : "1.3.6.1.3.37.2.0.4"
object  : isisTrapLSPID                   type : LinkStatePDUID
object  : isisSystemLevel                 type : ISLevel
object  : isisSystemInstance              type : Unsigned32
```

isisAuthenticationFailure

Description

A notification sent when we receive a PDU with incorrect authentication information field. This notification includes the header of the packet, which may help a network manager identify the source of the confusion.

This should be an edge-triggered notification. We should not send a second notification about PDUs received from what seem to be the same source.

Object ID

1.3.6.1.3.37.2.0.10

```
Trap    : isisAuthenticationFailure
Objects : {  isisSystemInstance, isisSystemLevel, isisCircIfIndex, isisPDUFragment }
OID     : "1.3.6.1.3.37.2.0.10"
object  : isisPDUFragment                type : IsisPDUHeader
object  : isisCircIfIndex                type : Integer32
object  : isisSystemLevel                type : ISLevel
object  : isisSystemInstance             type : Unsigned32
```

isisAuthenticationTypeFailure

Description

A notification sent when we receive a PDU with the wrong authentication type field. This notification includes the header of the packet, which may help a network manager identify the source of the confusion.

This should be an edge-triggered notification. We should not send a second notification about PDUs received from what seem to be the same source.

Object ID

1.3.6.1.3.37.2.0.9

```
Trap    : isisAuthenticationTypeFailure
Objects : {  isisSystemInstance, isisSystemLevel, isisCircIfIndex, isisPDUFragment }
OID     : "1.3.6.1.3.37.2.0.9"
object  : isisPDUFragment                 type : IsisPDUHeader
object  : isisCircIfIndex                 type : Integer32
object  : isisSystemLevel                 type : ISLevel
object  : isisSystemInstance              type : Unsigned32
```

isisCorruptedLSPDetected

Description

This notification is generated when we find that an LSP that was stored in memory has become corrupted. The number of times this has been generated is counted by isisSysCorrLSPs. We forward an LSP ID. We may have independent knowledge of the ID, but in some implementations there is a chance that the ID itself will be corrupted.

Object ID

1.3.6.1.3.37.2.0.3

```
Trap    : isisCorruptedLSPDetected
Objects : {  isisSystemInstance, isisSystemLevel, isisTrapLSPID }
OID     : "1.3.6.1.3.37.2.0.3"
object  : isisTrapLSPID                   type : LinkStatePDUID
object  : isisSystemLevel                 type : ISLevel
object  : isisSystemInstance              type : Unsigned32
```

isisDatabaseOverload

Description

This notification is generated when the system enters or leaves the Overload state. The number of times this has be generated and cleared is kept track of by isisSysStatLSPDbaseOloads.

Object ID

1.3.6.1.3.37.2.0.1

```
Trap    : isisDatabaseOverload
Objects : {  isisSystemInstance, isisSystemLevel, isisSysLevelOverloadState }
OID     : "1.3.6.1.3.37.2.0.1"
object  : isisSysLevelOverloadState        type : LevelState
object  : isisSystemLevel                  type : ISLevel
object  : isisSystemInstance               type : Unsigned32
```

isisIDLenMismatch

Description

A notification sent when we receive a PDU with a different value of the System ID Length. This notification includes the an index to identify the circuit where we saw the PDU and the header of the PDU which may help a network manager identify the source of the confusion.

This should be an edge-triggered notification. We should not send a second notification about PDUs received from what seem to be the same source. This decision is up to the agent to make, and may be based on the circuit or on some MAC level information.

Object ID

1.3.6.1.3.37.2.0.5

```
Trap    : isisIDLenMismatch
Objects : {  isisSystemInstance, isisFieldLen, isisCircIfIndex, isisPDUFragment }
OID     : "1.3.6.1.3.37.2.0.5"
object  : isisPDUFragment                type : IsisPDUHeader
object  : isisCircIfIndex                type : Integer32
object  : isisFieldLen                   type : Unsigned8TC
object  : isisSystemInstance             type : Unsigned32
```

isisLSPTooLargeToPropagate

Description

A notification sent when we attempt to propagate an LSP which is larger than the dataLinkBlockSize for a circuit.

This should be an edge-triggered notification. We should not send a second notification about PDUs received from the same source.

Object ID

1.3.6.1.3.37.2.0.14

```
Trap    : isisLSPTooLargeToPropagate
Objects : {  isisSystemLevel, isisCircIfIndex, isisLSPSize, isisTrapLSPID }
OID     : "1.3.6.1.3.37.2.0.14"
object  : isisTrapLSPID                   type : LinkStatePDUID
object  : isisLSPSize                     type : Integer32
object  : isisCircIfIndex                 type : Integer32
object  : isisSystemLevel                 type : ISLevel
```

isisManualAddressDrops

Description

This notification is generated when one of the manual areaAddresses assigned to this system is ignored when computing routes. The objectisisManAreaAddrExistState describes the area that has been dropped.

The number of times this event has been generated is counted by isisSysManAddrDropFromAreas.

This notification is edge triggered, and should not be regenerated until an address that was used in the previous computation has been dropped.

Object ID

1.3.6.1.3.37.2.0.2

```
Trap    : isisManualAddressDrops
Objects : {  isisSystemInstance, isisManAreaAddrExistState }
OID     : "1.3.6.1.3.37.2.0.2"
object  : isisManAreaAddrExistState        type : RowStatus
object  : isisSystemInstance               type : Unsigned32
```

isisMaxAreaAddressesMismatch

Description

A notification sent when we receive a PDU with a different value of the Maximum Area Addresses. This notification includes the header of the packet, which may help a network manager identify the source of the confusion.

This should be an edge-triggered notification. We should not send a second notification about PDUs received from what seem to be the same source.

Object ID

1.3.6.1.3.37.2.0.6

```
Trap    : isisMaxAreaAddressesMismatch
Objects : {  isisSystemInstance, isisMaxAreaAddress, isisCircIfIndex, isisPDUFragment }
OID     : "1.3.6.1.3.37.2.0.6"
object  : isisPDUFragment                 type : IsisPDUHeader
object  : isisCircIfIndex                 type : Integer32
object  : isisMaxAreaAddress              type : Unsigned8TC
object  : isisSystemInstance              type : Unsigned32
```

isisOriginatingLSPBufferSizeMismatch

Description

A notification sent when a Level 1 LSP or Level 2 LSP is received which is larger than the local value for isisOriginatingBufferSize, or when an LSP is received containing the isisOriginatingBufferSize option and the value in the PDU option field does not match the local value for isisOriginatingBufferSize. We pass up the size from the option field or the size of the LSP that exceeds our configuration.

This should be an edge-triggered notification. We should not send a second notification about PDUs received from the same source.

Object ID

1.3.6.1.3.37.2.0.15

```
Trap    : isisOriginatingLSPBufferSizeMismatch
Objects : {  isisSystemLevel, isisCircIfIndex, isisTrapLSPID, isisOriginatingBufferSize }
OID     : "1.3.6.1.3.37.2.0.15"
object  : isisOriginatingBufferSize        type : Integer32
object  : isisTrapLSPID                    type : LinkStatePDUID
object  : isisCircIfIndex                  type : Integer32
object  : isisSystemLevel                  type : ISLevel
```

isisOwnLSPPurge

Description

A notification sent when we receive a PDU with our systemID and zero age. This notification includes the circuit Index if available, which may help a network manager identify the source of the confusion.

Object ID

1.3.6.1.3.37.2.0.7

```
Trap    : isisOwnLSPPurge
Objects : {  isisSystemInstance, isisSystemLevel, isisCircIfIndex, isisTrapLSPID }
OID     : "1.3.6.1.3.37.2.0.7"
object  : isisTrapLSPID                   type : LinkStatePDUID
object  : isisCircIfIndex                 type : Integer32
object  : isisSystemLevel                 type : ISLevel
object  : isisSystemInstance              type : Unsigned32
```

isisProtocolsSupportedMismatch

Description

A notification sent when a non-pseudonode segment 0 LSP is received that has no matching protocols supported. This may be because the system does not generate the field, or because there are no common elements. The list of protocols supported should be included in the notification: it may be empty if the TLV is not supported, or if the TLV is empty.

This should be an edge-triggered notification. We should not send a second notification about PDUs received from the same source.

Object ID

1.3.6.1.3.37.2.0.16

```
Trap    : isisProtocolsSupportedMismatch
Objects : {  isisSystemLevel, isisCircIfIndex, isisProtocolsSupported, isisTrapLSPID,
isisPDUFragment }
OID     : "1.3.6.1.3.37.2.0.16"
object  : isisPDUFragment                type : IsisPDUHeader
object  : isisTrapLSPID                  type : LinkStatePDUID
object  : isisProtocolsSupported         type : OctetString
object  : isisCircIfIndex                type : Integer32
object  : isisSystemLevel                type : ISLevel
```

isisRejectedAdjacency

Description

A notification sent when we receive a Hello PDU from an IS, but do not establish an adjacency for some reason.

This should be an edge-triggered notification. We should not send a second notification aboutPDUs received from the same source.

Object ID

1.3.6.1.3.37.2.0.13

```
Trap    : isisRejectedAdjacency
Objects : {  isisSystemInstance, isisSystemLevel, isisCircIfIndex, isisPDUFragment }
OID     : "1.3.6.1.3.37.2.0.13"
object  : isisPDUFragment                 type : IsisPDUHeader
object  : isisCircIfIndex                 type : Integer32
object  : isisSystemLevel                 type : ISLevel
object  : isisSystemInstance              type : Unsigned32
```

isisSequenceNumberSkip

Description

When we receive an LSP with out System ID and different contents, we may need to reissue the LSP with a higher sequence number.

We send this notification if we need to increase the sequence number by more than one. If two Intermediate Systems are configured with the same System ID, this notification will fire.

Object ID

1.3.6.1.3.37.2.0.8

```
Trap    : isisSequenceNumberSkip
Objects : {  isisSystemInstance, isisSystemLevel, isisCircIfIndex, isisTrapLSPID }
OID     : "1.3.6.1.3.37.2.0.8"
object  : isisTrapLSPID                   type : LinkStatePDUID
object  : isisCircIfIndex                 type : Integer32
object  : isisSystemLevel                 type : ISLevel
object  : isisSystemInstance              type : Unsigned32
```

isisVersionSkew

Description

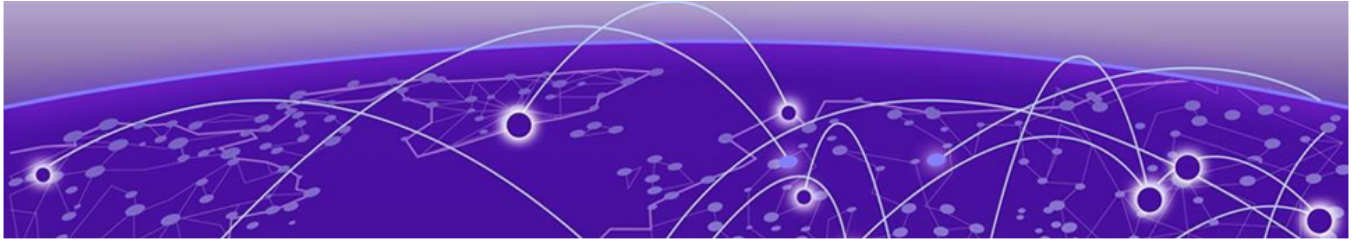
A notification sent when we receive a Hello PDU from an IS running a different version of the protocol. This notification includes the header of the packet, which may help a network manager identify the source of the confusion.

This should be an edge-triggered notification. We should not send a second notification about PDUs received from what seem to be the same source. This decision is up to the agent to make, and may be based on the circuit or on some MAC level information.

Object ID

1.3.6.1.3.37.2.0.11

```
Trap    : isisVersionSkew
Objects : {  isisSystemInstance, isisSystemLevel, isisCircIfIndex, isisProtocolVersion,
isisPDUFragment }
OID     : "1.3.6.1.3.37.2.0.11"
object  : isisPDUFragment                type : IsisPDUHeader
object  : isisProtocolVersion            type : Unsigned8TC
object  : isisCircIfIndex                type : Integer32
object  : isisSystemLevel                type : ISLevel
object  : isisSystemInstance             type : Unsigned32
```



LLDP Traps

lldpRemTablesChange on page 176
lldpXMedTopologyChangeDetected on page 177

The following topics are a catalog of the Link Layer Discovery Protocol (LLDP) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

lldpRemTablesChange

Description

A lldpRemTablesChange notification is sent when the value of lldpStatsRemTableLastChangeTime changes. It can be utilized by an NMS to trigger LLDP remote systems table maintenance polls.

Note that transmission of lldpRemTablesChange notifications are throttled by the agent, as specified by the 'lldpNotificationInterval' object.

Object ID

1.0.8802.1.1.2.0.0.1

```
Trap    : lldpRemTablesChange
Objects : {  lldpStatsRemTablesInserts, lldpStatsRemTablesDeletes,
lldpStatsRemTablesDrops, lldpStatsRemTablesAgeouts }
OID     : "1.0.8802.1.1.2.0.0.1"
object  : lldpStatsRemTablesAgeouts        type : ZeroBasedCounter32
object  : lldpStatsRemTablesDrops          type : ZeroBasedCounter32
object  : lldpStatsRemTablesDeletes        type : ZeroBasedCounter32
object  : lldpStatsRemTablesInserts        type : ZeroBasedCounter32
```

lldpXMedTopologyChangeDetected

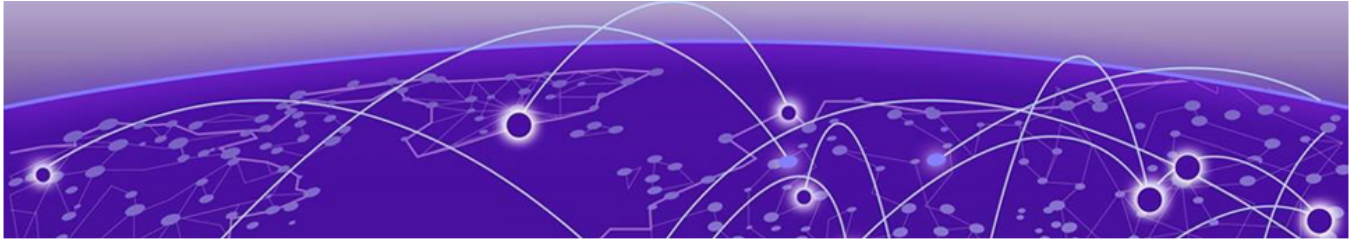
Description

A notification generated by the local device sensing a change in the topology that indicates that a new remote device attached to a local port, or a remote device disconnected or moved from one port to another.

Object ID

1.0.8802.1.1.2.1.5.4795.0.1

```
Trap    : lldpXMedTopologyChangeDetected
Objects : {  lldpRemChassisIdSubtype, lldpRemChassisId, lldpXMedRemDeviceClass }
OID     : "1.0.8802.1.1.2.1.5.4795.0.1"
object  : lldpXMedRemDeviceClass           type : LldpXMedDeviceClass
object  : lldpRemChassisId                 type : LldpChassisId
object  : lldpRemChassisIdSubtype          type : LldpChassisIdSubtype
```



MPLS Traps

mplsL3VpnNumVrfRouteMaxThreshCleared on page 179
mplsL3VpnNumVrfSecIIIgILblThrshExcd on page 180
mplsL3VpnVrfDown on page 181
mplsL3VpnVrfNumVrfRouteMaxThreshExceeded on page 182
mplsL3VpnVrfRouteMidThreshExceeded on page 183
mplsL3VpnVrfUp on page 184
mplsLdpInitSessionThresholdExceeded on page 185
mplsLdpPathVectorLimitMismatch on page 186
mplsLdpSessionDown on page 187
mplsLdpSessionUp on page 188
mplsTunnelDown on page 189
mplsTunnelReoptimized on page 190
mplsTunnelRerouted on page 191
mplsTunnelUp on page 192
pwDeleted on page 193
pwDown on page 194
pwUp on page 195

The following topics are a catalog of the Multiprotocol Label Switching (MPLS) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

mplsL3VpnNumVrfRouteMaxThreshCleared

Description

This notification is generated only after the number of routes contained by the specified VRF exceeds or attempts to exceed the maximum allowed value as indicated by mplsVrfMaxRouteThreshold, and then falls below this value. The emission of this notification informs the operator that the error condition has been cleared without the operator having to query the device.

Note that mplsL3VpnVrfConfRteMxThrshTime denotes the interval at which the mplsNumVrfRouteMaxThreshExceeded notification will be reissued after the maximum value has been exceeded (or reached if mplsL3VpnVrfConfMaxRoutes and mplsL3VpnVrfConfHighRteThresh are equal) and the initial notification has been issued. Therefore, the generation of this notification should also be emitted with this same frequency (assuming that the error condition is cleared). Specifically, if the error condition is reached and cleared several times during the period of time specified in mplsL3VpnVrfConfRteMxThrshTime, only a single notification will be issued to indicate the first instance of the error condition as well as the first time the error condition is cleared. This behavior is intended to prevent continuous generation of notifications by an agent in the event that routes are continually added and removed to/from a VRF after it has reached its maximum value. The default value is 0. If this value is set to 0, the agent should issue a notification whenever the maximum threshold has been cleared.

Object ID

1.3.6.1.2.1.10.166.11.0.6

```
 Trap    : mplsL3VpnNumVrfRouteMaxThreshCleared
Objects : {  mplsL3VpnVrfPerfCurrNumRoutes, mplsL3VpnVrfConfHighRteThresh }
OID     : "1.3.6.1.2.1.10.166.11.0.6"
object  : mplsL3VpnVrfConfHighRteThresh    type : Unsigned32
object  : mplsL3VpnVrfPerfCurrNumRoutes    type : Gauge32
```

mplsL3VpnNumVrfSecIllglLblThrshExcd

Description

This notification is generated when the number of illegal label violations on a VRF as indicated by mplsL3VpnVrfSecIllegalLblVltns has exceeded mplsL3VpnIllLblRcvThrsh. The threshold is not included in the varbind here because the value ofmplsL3VpnVrfSecIllegalLblVltns should be one greater than the threshold at the time this notification is issued.

Object ID

1.3.6.1.2.1.10.166.11.0.5

```
Trap    : mplsL3VpnNumVrfSecIllglLblThrshExcd
Objects : {  mplsL3VpnVrfSecIllegalLblVltns }
OID     : "1.3.6.1.2.1.10.166.11.0.5"
object  : mplsL3VpnVrfSecIllegalLblVltns   type : Counter32
```

mplsL3VpnVrfDown

Description

This notification is generated when:

One interface is associated with this VRF, and the ifOperStatus of this interface changes from up(1) to down(2).

b. Multiple interfaces are associated with this VRF, and the ifOperStatus of all except one of these interfaces is equal to up(1), and the ifOperStatus of that interface changes from up(1) to down(2).

c. The last interface with ifOperStatus equal to up(1)is disassociated from a VRF.

Object ID

1.3.6.1.2.1.10.166.11.0.2

```
Trap    : mplsL3VpnVrfDown
Objects : {  mplsL3VpnIfConfRowStatus, mplsL3VpnVrfOperStatus }
OID     : "1.3.6.1.2.1.10.166.11.0.2"
object  : mplsL3VpnVrfOperStatus           type : INTEGER
object  : mplsL3VpnIfConfRowStatus         type : RowStatus
```

mplsL3VpnVrfNumVrfRouteMaxThreshExceeded

Description

This notification is generated when the number of routes contained by the specified VRF exceeds or attempts to exceed the maximum allowed value as indicated by mplsL3VpnVrfMaxRouteThreshold. In cases where mplsL3VpnVrfConfHighRteThresh is set to the same value as mplsL3VpnVrfConfMaxRoutes, mplsL3VpnVrfConfHighRteThresh need not be exceeded; rather, just reached for this notification to be issued.

Object ID

1.3.6.1.2.1.10.166.11.0.4

```
Trap    : mplsL3VpnVrfNumVrfRouteMaxThreshExceeded
Objects : {  mplsL3VpnVrfPerfCurrNumRoutes, mplsL3VpnVrfConfHighRteThresh }
OID     : "1.3.6.1.2.1.10.166.11.0.4"
object  : mplsL3VpnVrfConfHighRteThresh    type : Unsigned32
object  : mplsL3VpnVrfPerfCurrNumRoutes    type : Gauge32
```

mplsL3VpnVrfRouteMidThreshExceeded

Description

This notification is generated when the number of routes contained by the specified VRF exceeds the value indicated by mplsL3VpnVrfMidRouteThreshold. A single notification MUST be generated when this threshold is exceeded, and no other notifications of this type should be issued until the value of mplsL3VpnVrfPerfCurrNumRoutes has fallen below that of mplsL3VpnVrfConfMidRteThresh.

Object ID

1.3.6.1.2.1.10.166.11.0.3

```
Trap    : mplsL3VpnVrfRouteMidThreshExceeded
Objects : {  mplsL3VpnVrfPerfCurrNumRoutes, mplsL3VpnVrfConfMidRteThresh }
OID     : "1.3.6.1.2.1.10.166.11.0.3"
object  : mplsL3VpnVrfConfMidRteThresh     type : Unsigned32
object  : mplsL3VpnVrfPerfCurrNumRoutes    type : Gauge32
```

mplsL3VpnVrfUp

Description

This notification is generated when:

a. No interface is associated with this VRF, and the first (and only first) interface associated with it has its ifOperStatus change to up(1).

b. One interface is associated with this VRF, and the ifOperStatus of this interface changes to up(1).

c. Multiple interfaces are associated with this VRF, and the ifOperStatus of all interfaces is down(2), and the first of those interfaces has its ifOperStatus change to up(1).

Object ID

1.3.6.1.2.1.10.166.11.0.1

```
Trap    : mplsL3VpnVrfUp
Objects : {  mplsL3VpnIfConfRowStatus, mplsL3VpnVrfOperStatus }
OID     : "1.3.6.1.2.1.10.166.11.0.1"
object  : mplsL3VpnVrfOperStatus           type : INTEGER
object  : mplsL3VpnIfConfRowStatus         type : RowStatus
```

mplsLdpInitSessionThresholdExceeded

Description

This notification is generated when the value of the 'mplsLdpEntityInitSessionThreshold' object is not zero, and the number of Session Initialization messages exceeds the value of the 'mplsLdpEntityInitSessionThreshold' object.

Object ID

1.3.6.1.2.1.10.166.4.0.1

```
Trap    : mplsLdpInitSessionThresholdExceeded
Objects : {  mplsLdpEntityInitSessionThreshold }
OID     : "1.3.6.1.2.1.10.166.4.0.1"
object  : mplsLdpEntityInitSessionThreshold type : Integer32
```

mplsLdpPathVectorLimitMismatch

Description

This notification is sent when the 'mplsLdpEntityPathVectorLimit' does NOT match the value of the 'mplsLdpPeerPathVectorLimit' for a specific entity.

Object ID

1.3.6.1.2.1.10.166.4.0.2

```
Trap    : mplsLdpPathVectorLimitMismatch
Objects : {  mplsLdpEntityPathVectorLimit, mplsLdpPeerPathVectorLimit }
OID     : "1.3.6.1.2.1.10.166.4.0.2"
object  : mplsLdpPeerPathVectorLimit       type : Integer32
object  : mplsLdpEntityPathVectorLimit     type : Integer32
```

mplsLdpSessionDown

Description

This notification is sent when the value of 'mplsLdpSessionState' leaves the 'operational(5)' state.

Object ID

1.3.6.1.2.1.10.166.4.0.4

```
Trap    : mplsLdpSessionDown
Objects : {  mplsLdpSessionState, mplsLdpSessionDiscontinuityTime,
mplsLdpSessionStatsUnknownMesTypeErrors, mplsLdpSessionStatsUnknownTlvErrors }
OID     : "1.3.6.1.2.1.10.166.4.0.4"
object  : mplsLdpSessionStatsUnknownTlvErrors     type : Counter32
object  : mplsLdpSessionStatsUnknownMesTypeErrors type : Counter32
object  : mplsLdpSessionDiscontinuityTime         type : TimeStamp
object  : mplsLdpSessionState                     type : INTEGER
```

mplsLdpSessionUp

Description

This notification is sent when the value of 'mplsLdpSessionState' enters the 'operational(5)' state.

Object ID

1.3.6.1.2.1.10.166.4.0.3

```
Trap    : mplsLdpSessionUp
Objects : {  mplsLdpSessionState, mplsLdpSessionDiscontinuityTime,
mplsLdpSessionStatsUnknownMesTypeErrors, mplsLdpSessionStatsUnknownTlvErrors }
OID     : "1.3.6.1.2.1.10.166.4.0.3"
object  : mplsLdpSessionStatsUnknownTlvErrors     type : Counter32
object  : mplsLdpSessionStatsUnknownMesTypeErrors type : Counter32
object  : mplsLdpSessionDiscontinuityTime         type : TimeStamp
object  : mplsLdpSessionState                     type : INTEGER
```

mplsTunnelDown

Description

This notification is generated when a mplsTunnelOperStatus object for one of the configured tunnels is about to enter the down state from some other state (but not from the notPresent state). This other state is indicated by the included value of mplsTunnelOperStatus.

Object ID

1.3.6.1.2.1.10.166.3.0.2

```
Trap    : mplsTunnelDown
Objects : {  mplsTunnelAdminStatus, mplsTunnelOperStatus }
OID     : "1.3.6.1.2.1.10.166.3.0.2"
object  : mplsTunnelOperStatus             type : INTEGER
object  : mplsTunnelAdminStatus            type : INTEGER
```

mplsTunnelReoptimized

Description

This notification is generated when a tunnel is reoptimized. If the mplsTunnelARHopTable is used, then this tunnel instance's entry in the mplsTunnelARHopTable MAY contain the new path for this tunnel some time after this trap is issued by the agent.

Object ID

1.3.6.1.2.1.10.166.3.0.4

```
Trap    : mplsTunnelReoptimized
Objects : {  mplsTunnelAdminStatus, mplsTunnelOperStatus }
OID     : "1.3.6.1.2.1.10.166.3.0.4"
object  : mplsTunnelOperStatus             type : INTEGER
object  : mplsTunnelAdminStatus            type : INTEGER
```

mplsTunnelRerouted

Description

This notification is generated when a tunnel is rerouted. If the mplsTunnelARHopTable is used, then this tunnel instance's entry in the mplsTunnelARHopTable MAY contain the new path for this tunnel some time after this trap is issued by the agent.

Object ID

1.3.6.1.2.1.10.166.3.0.3

```
Trap    : mplsTunnelRerouted
Objects : {  mplsTunnelAdminStatus, mplsTunnelOperStatus }
OID     : "1.3.6.1.2.1.10.166.3.0.3"
object  : mplsTunnelOperStatus             type : INTEGER
object  : mplsTunnelAdminStatus            type : INTEGER
```

mplsTunnelUp

Description

This notification is generated when a mplsTunnelOperStatus object for one of the configured tunnels is about to leave the down state and transition into some other state (but not into the notPresent state). This other state is indicated by the included value of mplsTunnelOperStatus.

Object ID

1.3.6.1.2.1.10.166.3.0.1

```
Trap    : mplsTunnelUp
Objects : {  mplsTunnelAdminStatus, mplsTunnelOperStatus }
OID     : "1.3.6.1.2.1.10.166.3.0.1"
object  : mplsTunnelOperStatus             type : INTEGER
object  : mplsTunnelAdminStatus            type : INTEGER
```

pwDeleted

Description

This notification is generated when the PW has been deleted, i.e., when the pwRowStatus has been set to destroy(6) or the PW has been deleted by a non-MIB application or due to an auto-discovery process.

Object ID

1.3.6.1.2.1.10.246.0.3

```
Trap    : pwDeleted
Objects : {  pwType, pwID, pwPeerAddrType, pwPeerAddr }
OID     : "1.3.6.1.2.1.10.246.0.3"
object  : pwPeerAddr                      type : InetAddress
object  : pwPeerAddrType                  type : InetAddressType
object  : pwID                            type : PwIDType
object  : pwType                          type : IANAPwTypeTC
```

pwDown

Description

This notification is generated when the pwOperStatus object for one or more contiguous entries in the pwTable are about to enter the down(2) or lowerLayerDown(6) state from any other state, except for transition from the notPresent(5) state. For the purpose of deciding when these notifications occur, the lowerLayerDown(6) state and the down(2) state are considered to be equivalent; i.e., there is no notification on transition from lowerLayerDown(6) into down(2), and there is a trap on transition from any other state except down(2) (and notPresent) into lowerLayerDown(6).

The included values of pwOperStatus MUST each be equal to down(2) or lowerLayerDown(6). The two instances of pwOperStatus in this notification indicate the range of indexes that are affected. Note that all the indexes of the two ends of the range can be derived from the instance identifiers of these two objects. For cases where a contiguous range of cross-connects have transitioned into the down(2) and lowerLayerDown(6) states at roughly the same time, the device SHOULD issue a single notification for each range of contiguous indexes in an effort to minimize the emission of a large number of notifications. If a notification has to be issued for just a single cross-connect entry, then the instance identifier (and values) of the two pwOperStatus objects MUST be identical.

Object ID

1.3.6.1.2.1.10.246.0.1

```
Trap    : pwDown
Objects : {  pwOperStatus }
OID     : "1.3.6.1.2.1.10.246.0.1"
object  : pwOperStatus                    type : PwOperStatusTC
```

pwUp

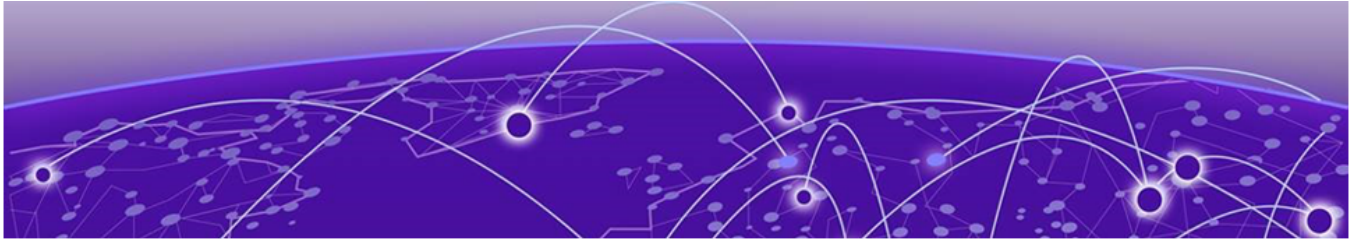
Description

This notification is generated when the pwOperStatus object for one or more contiguous entries in the pwTable are about to enter the up(1) state from some other state except the notPresent(5) state and given that the pwDown notification been issued for these entries. The included values of pwOperStatus MUST both be set equal to this new state (i.e., up(1)). The two instances of pwOperStatus in this notification indicate the range of indexes that are affected. Note that all the indexes of the two ends of the range can be derived from the instance identifiers of these two objects. For cases where a contiguous range of cross-connects have transitioned into the up(1) state at roughly the same time, the device SHOULD issue a single notification for each range of contiguous indexes in an effort to minimize the emission of a large number of notifications. If a notification has to be issued for just a single cross-connect entry, then the instance identifier (and values) of the two pwOperStatus objects MUST be identical.

Object ID

1.3.6.1.2.1.10.246.0.2

```
Trap    : pwUp
Objects : {  pwOperStatus }
OID     : "1.3.6.1.2.1.10.246.0.2"
object  : pwOperStatus                    type : PwOperStatusTC
```



MSDP Traps

msdpBackwardTransition on page 197
msdpEstablished on page 198

The following topics are a catalog of the Multicast Source Discovery Protocol (MSDP) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

msdpBackwardTransition

Description

The MSDPBackwardTransition Event is generated when the MSDP FSM moves from a higher-numbered state to a lower-numbered state.

Object ID

1.3.6.1.3.92.1.1.0.2

```
Trap    : msdpBackwardTransition
Objects : {  msdpPeerState }
OID     : "1.3.6.1.3.92.1.1.0.2"
object  : msdpPeerState                  type : INTEGER
```

msdpEstablished

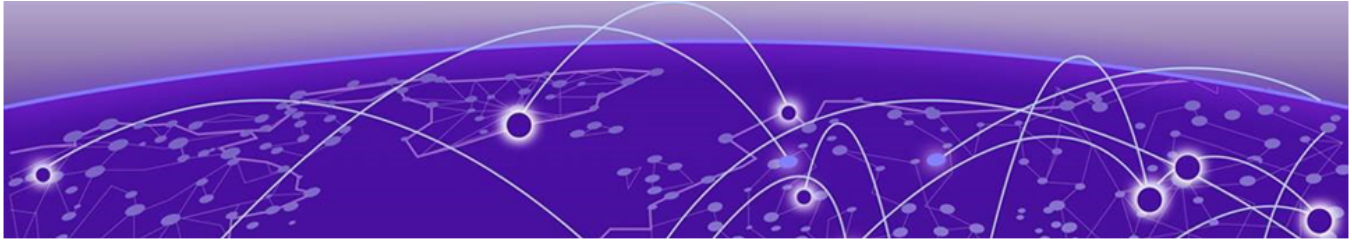
Description

The MSDP Established event is generated when the MSDP FSM enters the ESTABLISHED state.

Object ID

1.3.6.1.3.92.1.1.0.1

```
Trap    : msdpEstablished
Objects : {  msdpPeerFsmEstablishedTransitions }
OID     : "1.3.6.1.3.92.1.1.0.1"
object  : msdpPeerFsmEstablishedTransitions type : Counter32
```



ONEPolicy Traps

etsysPolicyRulePortHitNotification on page 200

The following topics are a catalog of the ONEPolicy trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

etsysPolicyRulePortHitNotification

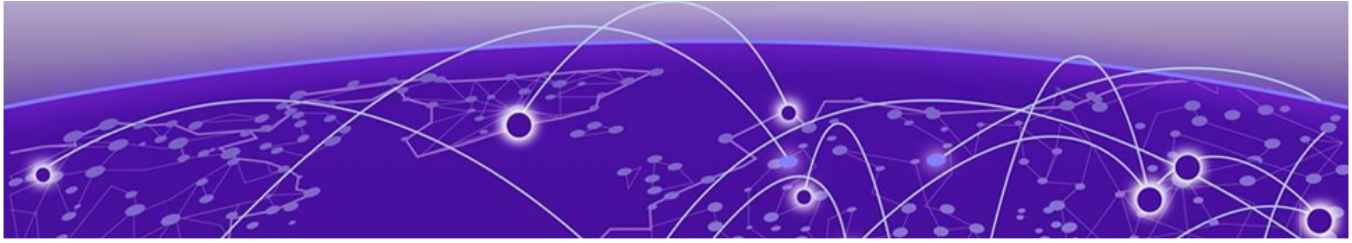
Description

This notification indicates that a policy rule has matched network traffic on a particular port. Port number zero is reserved to mean any port.

Object ID

1.3.6.1.4.1.5624.1.2.6.0.1

```
Trap    : etsysPolicyRulePortHitNotification
Objects : {  ifName, ifAlias, etsysPolicyRulePortHit, etsysPolicyProfileName }
OID     : "1.3.6.1.4.1.5624.1.2.6.0.1"
object  : ifName                          type : DisplayString
object  : ifAlias                         type : DisplayString
object  : etsysPolicyRulePortHit          type : TruthValue
object  : etsysPolicyProfileName          type : SnmpAdminString
```



OSPF Traps

ospfIfAuthFailure on page 202
ospfIfConfigError on page 203
ospfIfRxBadPacket on page 204
ospfIfStateChange on page 205
ospfLsdbApproachingOverflow on page 206
ospfLsdbOverflow on page 207
ospfMaxAgeLsa on page 208
ospfNbrStateChange on page 209
ospfOriginateLsa on page 210
ospfTxRetransmit on page 211
ospfVirtIfAuthFailure on page 212
ospfVirtIfConfigError on page 213
ospfVirtNbrStateChange on page 214
ospfVirtIfRxBadPacket on page 215
ospfVirtIfTxRetransmit on page 216

The following topics are a catalog of the Open Shortest Path First (OSPF) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

ospfIfAuthFailure

Description

An ospfIfAuthFailure trap signifies that a packet has been received on a non-virtual interface from a router whose authentication key or authentication type conflicts with this router's authentication key or authentication type.

Object ID

1.3.6.1.2.1.14.16.2.6

```
Trap    : ospfIfAuthFailure
Objects : {  ospfRouterId, ospfIfIpAddress, ospfAddressLessIf, ospfPacketSrc,
ospfConfigErrorType, ospfPacketType }
OID     : "1.3.6.1.2.1.14.16.2.6"
object  : ospfPacketType                  type : INTEGER
object  : ospfConfigErrorType             type : INTEGER
object  : ospfPacketSrc                   type : IpAddress
object  : ospfAddressLessIf               type : Integer32
object  : ospfIfIpAddress                 type : IpAddress
object  : ospfRouterId                    type : RouterID
```

ospfIfConfigError

Description

Object ID

1.3.6.1.2.1.14.16.2.4

```
Trap    : ospfIfConfigError
Objects : {  ospfRouterId, ospfIfIpAddress, ospfAddressLessIf, ospfPacketSrc,
ospfConfigErrorType, ospfPacketType }
OID     : "1.3.6.1.2.1.14.16.2.4"
object  : ospfPacketType                    type : INTEGER
object  : ospfConfigErrorType               type : INTEGER
object  : ospfPacketSrc                     type : IpAddress
object  : ospfAddressLessIf                 type : Integer32
object  : ospfIfIpAddress                   type : IpAddress
object  : ospfRouterId                      type : RouterID
```

ospfIfRxBadPacket

Description

An ospfIfRxBadPacket trap signifies that an OSPF packet has been received on a non-virtual interface that cannot be parsed.

Object ID

1.3.6.1.2.1.14.16.2.8

```
Trap    : ospfIfRxBadPacket
Objects : {  ospfRouterId, ospfIfIpAddress, ospfAddressLessIf, ospfPacketSrc,
ospfPacketType }
OID     : "1.3.6.1.2.1.14.16.2.8"
object  : ospfPacketType                  type : INTEGER
object  : ospfPacketSrc                   type : IpAddress
object  : ospfAddressLessIf               type : Integer32
object  : ospfIfIpAddress                 type : IpAddress
object  : ospfRouterId                    type : RouterID
```

ospfIfStateChange

Description

An ospfIfStateChange trap signifies that there has been a change in the state of a non-virtual OSPF interface. This trap should be generated when the interface state regresses (e.g., goes from Dr to Down) or progresses to a terminal state (i.e., Point-to-Point, DR Other, Dr, or Backup).

Object ID

1.3.6.1.2.1.14.16.2.16

```
Trap    : ospfIfStateChange
Objects : {  ospfRouterId, ospfIfIpAddress, ospfAddressLessIf, ospfIfState }
OID     : "1.3.6.1.2.1.14.16.2.16"
object  : ospfIfState                     type : INTEGER
object  : ospfAddressLessIf               type : Integer32
object  : ospfIfIpAddress                 type : IpAddress
object  : ospfRouterId                    type : RouterID
```

ospfLsdbApproachingOverflow

Description

An ospfLsdbApproachingOverflow trap signifies that the number of LSAs in the router's link state database has exceeded ninety percent of ospfExtLsdbLimit.

Object ID

1.3.6.1.2.1.14.16.2.15

```
Trap    : ospfLsdbApproachingOverflow
Objects : {  ospfRouterId, ospfExtLsdbLimit }
OID     : "1.3.6.1.2.1.14.16.2.15"
object  : ospfExtLsdbLimit                type : Integer32
object  : ospfRouterId                    type : RouterID
```

ospfLsdbOverflow

Description

An ospfLsdbOverflow trap signifies that the number of LSAs in the router's link state database has exceeded ospfExtLsdbLimit.

Object ID

1.3.6.1.2.1.14.16.2.14

```
Trap    : ospfLsdbOverflow
Objects : {  ospfRouterId, ospfExtLsdbLimit }
OID     : "1.3.6.1.2.1.14.16.2.14"
object  : ospfExtLsdbLimit                type : Integer32
object  : ospfRouterId                    type : RouterID
```

ospfMaxAgeLsa

Description

An ospfMaxAgeLsa trap signifies that one of the LSAs in the router's link state database has aged to MaxAge.

Object ID

1.3.6.1.2.1.14.16.2.13

```
Trap    : ospfMaxAgeLsa
Objects : {  ospfRouterId, ospfLsdbAreaId, ospfLsdbType, ospfLsdbLsid, ospfLsdbRouterId }
OID     : "1.3.6.1.2.1.14.16.2.13"
object  : ospfLsdbRouterId                type : RouterID
object  : ospfLsdbLsid                    type : IpAddress
object  : ospfLsdbType                    type : INTEGER
object  : ospfLsdbAreaId                  type : AreaID
object  : ospfRouterId                    type : RouterID
```

ospfNbrStateChange

Description

An ospfNbrStateChange trap signifies that there has been a change in the state of a non-virtual OSPF neighbor. This trap should be generated when the neighbor state regresses (e.g., goes from Attempt or Full to 1-Way or Down) or progresses to a terminal state (e.g., 2-Way or Full). When an neighbor transitions from or to Full on non-broadcast multi-access and broadcast networks, the trap should be generated by the designated router. A designated router transitioning to Down will be noted by ospfIfStateChange.

Object ID

1.3.6.1.2.1.14.16.2.2

```
Trap    : ospfNbrStateChange
Objects : {  ospfRouterId, ospfNbrIpAddr, ospfNbrAddressLessIndex, ospfNbrRtrId,
ospfNbrState }
OID     : "1.3.6.1.2.1.14.16.2.2"
object  : ospfNbrState                    type : INTEGER
object  : ospfNbrRtrId                    type : RouterID
object  : ospfNbrAddressLessIndex         type : InterfaceIndex
object  : ospfNbrIpAddr                   type : IpAddress
object  : ospfRouterId                    type : RouterID
```

ospfOriginateLsa

Description

An ospfOriginateLsa trap signifies that a new LSA has been originated by this router. This trap should not be invoked for simple refreshes of LSAs (which happens every 30 minutes), but instead will only be invoked when an LSA is (re)originated due to a topology change. Additionally, this trap does not include LSAs that are being flushed because they have reached MaxAge.

Object ID

1.3.6.1.2.1.14.16.2.12

```
Trap    : ospfOriginateLsa
Objects : {  ospfRouterId, ospfLsdbAreaId, ospfLsdbType, ospfLsdbLsid, ospfLsdbRouterId }
OID     : "1.3.6.1.2.1.14.16.2.12"
object  : ospfLsdbRouterId                type : RouterID
object  : ospfLsdbLsid                    type : IpAddress
object  : ospfLsdbType                    type : INTEGER
object  : ospfLsdbAreaId                  type : AreaID
object  : ospfRouterId                    type : RouterID
```

ospfTxRetransmit

Description

An ospfTxRetransmit trap signifies than an OSPF packet has been retransmitted on a non-virtual interface. All packets that may be retransmitted are associated with an LSDB entry. The LS type, LS ID, and Router ID are used to identify the LSDB entry.

Object ID

1.3.6.1.2.1.14.16.2.10

```
Trap    : ospfTxRetransmit
Objects : {  ospfRouterId, ospfIfIpAddress, ospfAddressLessIf, ospfNbrRtrId,
ospfPacketType, ospfLsdbType, ospfLsdbLsid, ospfLsdbRouterId }
OID     : "1.3.6.1.2.1.14.16.2.10"
object  : ospfLsdbRouterId                type : RouterID
object  : ospfLsdbLsid                    type : IpAddress
object  : ospfLsdbType                    type : INTEGER
object  : ospfPacketType                  type : INTEGER
object  : ospfNbrRtrId                    type : RouterID
object  : ospfAddressLessIf               type : Integer32
object  : ospfIfIpAddress                 type : IpAddress
object  : ospfRouterId                    type : RouterID
```

ospfVirtIfAuthFailure

Description

An ospfVirtIfAuthFailure trap signifies that a packet has been received on a virtual interface from a router whose authentication key or authentication type conflicts with this router's authentication key or authentication type.

Object ID

1.3.6.1.2.1.14.16.2.7

```
Trap    : ospfVirtIfAuthFailure
Objects : {  ospfRouterId, ospfVirtIfAreaId, ospfVirtIfNeighbor, ospfConfigErrorType,
ospfPacketType }
OID     : "1.3.6.1.2.1.14.16.2.7"
object  : ospfPacketType                  type : INTEGER
object  : ospfConfigErrorType             type : INTEGER
object  : ospfVirtIfNeighbor              type : RouterID
object  : ospfVirtIfAreaId                type : AreaID
object  : ospfRouterId                    type : RouterID
```

ospfVirtIfConfigError

Description

An ospfVirtIfConfigError trap signifies that a packet has been received on a virtual interface from a router whose configuration parameters conflict with this router's configuration parameters. Note that the event optionMismatch should cause a trap only if it prevents an adjacency from forming.

Object ID

1.3.6.1.2.1.14.16.2.5

```
Trap    : ospfVirtIfConfigError
Objects : {  ospfRouterId, ospfVirtIfAreaId, ospfVirtIfNeighbor, ospfConfigErrorType,
ospfPacketType }
OID     : "1.3.6.1.2.1.14.16.2.5"
object  : ospfPacketType                  type : INTEGER
object  : ospfConfigErrorType             type : INTEGER
object  : ospfVirtIfNeighbor              type : RouterID
object  : ospfVirtIfAreaId                type : AreaID
object  : ospfRouterId                    type : RouterID
```

ospfVirtNbrStateChange

Description

An ospfVirtNbrStateChange trap signifies that there has been a change in the state of an OSPF virtual neighbor. This trap should be generated when the neighbor state regresses (e.g., goes from Attempt or Full to 1-Way or Down) or progresses to a terminal state (e.g., Full).

Object ID

1.3.6.1.2.1.14.16.2.3

```
Trap    : ospfVirtNbrStateChange
Objects : {  ospfRouterId, ospfVirtNbrArea, ospfVirtNbrRtrId, ospfVirtNbrState }
OID     : "1.3.6.1.2.1.14.16.2.3"
object  : ospfVirtNbrState                type : INTEGER
object  : ospfVirtNbrRtrId                type : RouterID
object  : ospfVirtNbrArea                 type : AreaID
object  : ospfRouterId                    type : RouterID
```

ospfVirtIfRxBadPacket

Description

An ospfVirtIfRxBadPacket trap signifies that an OSPF packet has been received on a virtual interface that cannot be parsed.

Object ID

1.3.6.1.2.1.14.16.2.9

```
Trap    : ospfVirtIfRxBadPacket
Objects : {  ospfRouterId, ospfVirtIfAreaId, ospfVirtIfNeighbor, ospfPacketType }
OID     : "1.3.6.1.2.1.14.16.2.9"
object  : ospfPacketType                  type : INTEGER
object  : ospfVirtIfNeighbor              type : RouterID
object  : ospfVirtIfAreaId                type : AreaID
object  : ospfRouterId                    type : RouterID
```

ospfVirtIfTxRetransmit

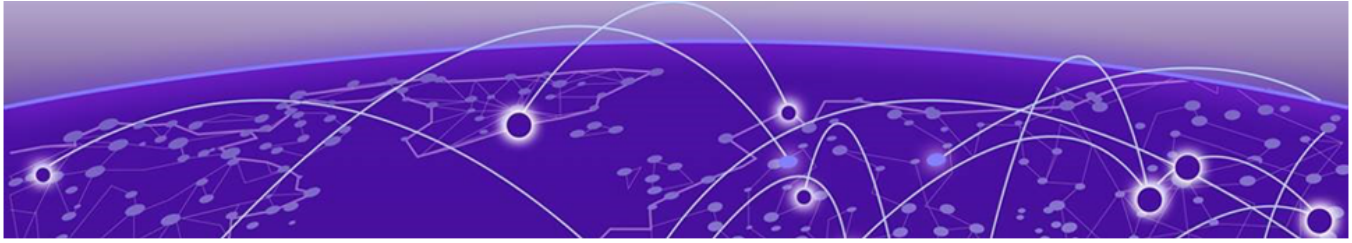
Description

An ospfVirtIfTxRetransmit trap signifies than an OSPF packet has been retransmitted on a virtual interface. All packets that may be retransmitted are associated with an LSDB entry. The LS type, LS ID, and Router ID are used to identify the LSDB entry.

Object ID

1.3.6.1.2.1.14.16.2.11

```
Trap    : ospfVirtIfTxRetransmit
Objects : {  ospfRouterId, ospfVirtIfAreaId, ospfVirtIfNeighbor, ospfPacketType,
ospfLsdbType, ospfLsdbLsid, ospfLsdbRouterId }
OID     : "1.3.6.1.2.1.14.16.2.11"
object  : ospfLsdbRouterId                type : RouterID
object  : ospfLsdbLsid                    type : IpAddress
object  : ospfLsdbType                    type : INTEGER
object  : ospfPacketType                  type : INTEGER
object  : ospfVirtIfNeighbor              type : RouterID
object  : ospfVirtIfAreaId                type : AreaID
object  : ospfRouterId                    type : RouterID
```



PoE Traps

pethMainPowerUsageOffNotification on page 218
pethMainPowerUsageOnNotification on page 219
pethPsePortOnOffNotification on page 220

The following topics are a catalog of the Power over Ethernet (PoE) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

pethMainPowerUsageOffNotification

Description

This Notification indicates PSE Threshold usage indication off, the usage power is below the threshold. At least 500 msec must elapse between notifications being emitted by the same object instance.

Object ID

1.3.6.1.2.1.105.0.3

```
Trap    : pethMainPowerUsageOffNotification
Objects : {  pethMainPseConsumptionPower }
OID     : "1.3.6.1.2.1.105.0.3"
object  : pethMainPseConsumptionPower      type : Gauge32
```

pethMainPowerUsageOnNotification

Description

This Notification indicate PSE Threshold usage indication is on, the usage power is above the threshold. At least 500 msec must elapse between notifications being emitted by the same object instance.

Object ID

1.3.6.1.2.1.105.0.2

```
Trap    : pethMainPowerUsageOnNotification
Objects : {  pethMainPseConsumptionPower }
OID     : "1.3.6.1.2.1.105.0.2"
object  : pethMainPseConsumptionPower      type : Gauge32
```

pethPsePortOnOffNotification

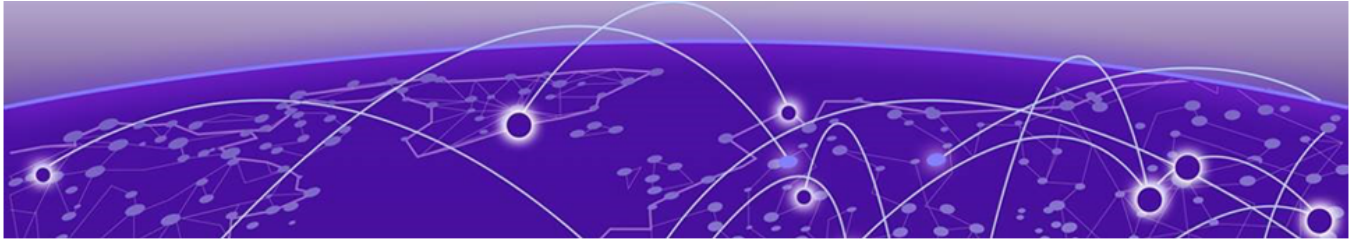
Description

This Notification indicates if Pse Port is delivering or not power to the PD. This Notification SHOULD be sent on every status change except in the searching mode. At least 500 msec must elapse between notifications being emitted by the same object instance.

Object ID

1.3.6.1.2.1.105.0.1

```
Trap    : pethPsePortOnOffNotification
Objects : {  pethPsePortDetectionStatus }
OID     : "1.3.6.1.2.1.105.0.1"
object  : pethPsePortDetectionStatus       type : INTEGER
```



SNMPv3 Traps

fallingAlarm on page 222
risingAlarm on page 223

The following topics are a catalog of the SNMPv3 trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

fallingAlarm

Description

The SNMP trap that is generated when an alarm entry crosses its falling threshold and generates an event that is configured for sending SNMP traps.

Object ID

1.3.6.1.2.1.16.0.2

```
Trap    : fallingAlarm
Objects : {  alarmIndex, alarmVariable, alarmSampleType, alarmValue,
alarmFallingThreshold }
OID     : "1.3.6.1.2.1.16.0.2"
object  : alarmFallingThreshold           type : Integer32
object  : alarmValue                      type : Integer32
object  : alarmSampleType                 type : INTEGER
object  : alarmVariable                   type : ObjectID
object  : alarmIndex                      type : INTEGER
```

risingAlarm

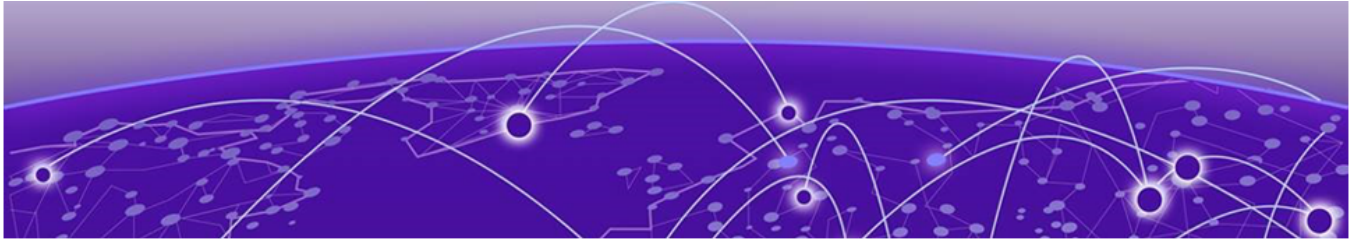
Description

The SNMP trap that is generated when an alarm entry crosses its rising threshold and generates an event that is configured for sending SNMP traps.

Object ID

1.3.6.1.2.1.16.0.1

```
Trap    : risingAlarm
Objects : {  alarmIndex, alarmVariable, alarmSampleType, alarmValue,
alarmRisingThreshold }
OID     : "1.3.6.1.2.1.16.0.1"
object  : alarmRisingThreshold            type : Integer32
object  : alarmValue                      type : Integer32
object  : alarmSampleType                 type : INTEGER
object  : alarmVariable                   type : ObjectID
object  : alarmIndex                      type : INTEGER
```



STP Traps

newRoot on page 225
topologyChange on page 226

The following topics are a catalog of the Spanning Tree Protocol (STP) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

newRoot

Description

The newRoot trap indicates that the sending agent has become the new root of the Spanning Tree; the trap is sent by a bridge soon after its election as the new root, e.g., upon expiration of the Topology Change Timer, immediately subsequent to its election. Implementation of this trap is optional.

Object ID

1.3.6.1.2.1.17.0.1

```
Trap    : newRoot
Objects : {  extremeStpDomainStpdInstance }
OID     : "1.3.6.1.2.1.17.0.1"
object  : extremeStpDomainStpdInstance     type : Integer32
```

topologyChange

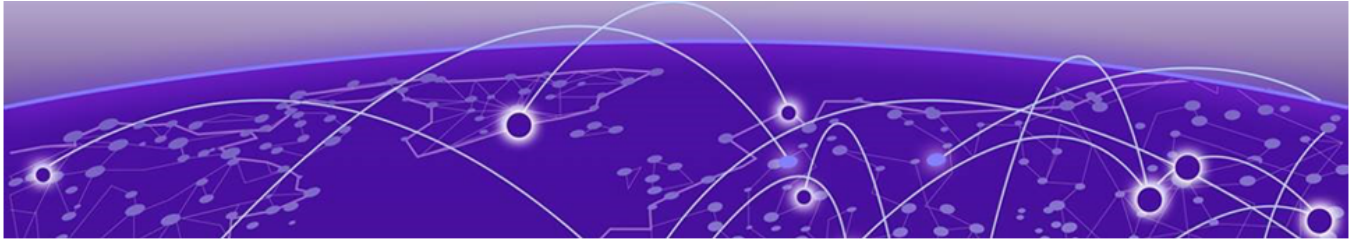
Description

A topologyChange trap is sent by a bridge when any of its configured ports transitions from the Learning state to the Forwarding state, or from the Forwarding state to the Blocking state. The trap is not sent if a newRoot trap is sent for the same transition. Implementation of this trap is optional.

Object ID

1.3.6.1.2.1.17.0.2

```
Trap    : topologyChange
Objects : {  extremeStpDomainStpdInstance }
OID     : "1.3.6.1.2.1.17.0.2"
object  : extremeStpDomainStpdInstance     type : Integer32
```



VRRP Traps

vrrpTrapAuthFailure on page 228
vrrpTrapNewMaster on page 229

The following topics are a catalog of the Virtual Router Redundancy Protocol (VRRP) trap messages in ExtremeXOS 31.6.

The trap messages are listed alphabetically by trap name within major ExtremeXOS components. In the back of the PDF document, an index lists all trap messages by Object ID.

vrrpTrapAuthFailure

Description

A vrrpAuthFailure trap signifies that a packet has been received from a router whose authentication key or authentication type conflicts with this router's authentication key or authentication type. Implementation of this trap is optional.

Object ID

1.3.6.1.2.1.68.0.2

```
Trap    : vrrpTrapAuthFailure
Objects : {  vrrpTrapPacketSrc, vrrpTrapAuthErrorType }
OID     : "1.3.6.1.2.1.68.0.2"
object  : vrrpTrapAuthErrorType            type : INTEGER
object  : vrrpTrapPacketSrc                type : IpAddress
```

vrrpTrapNewMaster

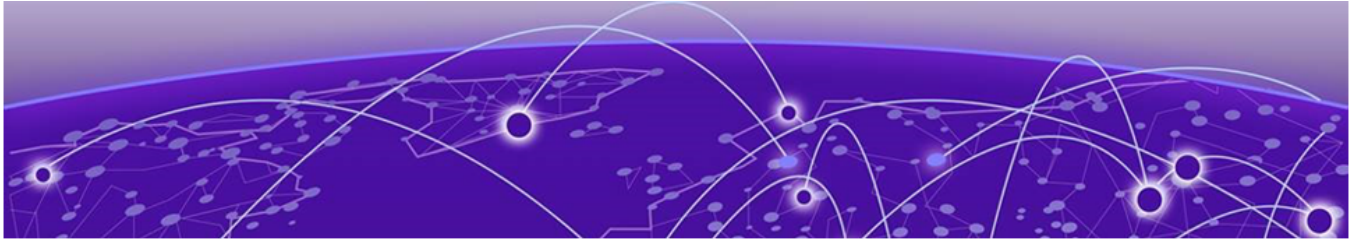
Description

The newMaster trap indicates that the sending agent has transitioned to 'Master' state.

Object ID

1.3.6.1.2.1.68.0.1

```
Trap    : vrrpTrapNewMaster
Objects : {  vrrpOperMasterIpAddr }
OID     : "1.3.6.1.2.1.68.0.1"
object  : vrrpOperMasterIpAddr             type : IpAddress
```



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