



Processing SNMP Traps

For some SNMP traps, LMS either processes them or treats them as pass-through traps. These traps, and how LMS treats them, are described in these topics:

- [Processed SNMP Traps](#)
- [Pass-Through SNMP Unidentified Traps](#)
- [Unidentified Traps](#)

Processed SNMP Traps

When LMS receives certain SNMP traps, it analyzes the data found in the following fields of each SNMP trap message, and changes the property value of the object property if required:

- Enterprise (the sysObjectID of the agent or object)
- Generic Trap Identifier
- Specific Trap Identifier
- Variable-Bindings
- IP address of the SNMP agent



Note

Use Notification Services to forward *specific* traps to e-mail recipients or host machines.

All processed traps are forwarded in V1 format. For more information on Processed Traps, see:

- [Processed Standard SNMP Traps \(RFC 1215\)](#)
- [Processed CISCO-STACK-MIB Traps](#)
- [Processed CISCO-ISDN-MIB Traps](#)
- [Processed CISCO-ENTITY-FRU-CONTROL-MIB Trap](#)

Processed Standard SNMP Traps (RFC 1215)

SNMP Trap	Corresponding Event
Cold Start	RepeatedRestarts
Warm Start	

SNMP Trap	Corresponding Event
Link Up	Flapping
Link Down	

Processed CISCO-STACK-MIB Traps

SNMP Trap	Corresponding Event
Module Up	CardDown
Module Down	

Processed CISCO-ISDN-MIB Traps

SNMP Trap	Corresponding Event
demandNbrLayer2Change	OperationallyDown

Processed CISCO-ENTITY-FRU-CONTROL-MIB Trap

SNMP Trap	Corresponding Event
cefcModuleStatusChange	OperationallyDown

Pass-Through SNMP Unidentified Traps

Pass-through traps are the traps that are generated from devices and are not processed by LMS. The traps appear in the alerts and activities page, if they are generated from the devices that are managed by LMS. LMS cannot process these traps and map them to a topology element such as cards and interfaces. However, LMS can forward the traps irrespective of the device state is either managed or unmanaged. Forwarding these traps is controlled using **Monitor > Fault Settings > SNMP Traps > Forwarding**.

Pass-through traps are displayed as follows:

- As one of the following events:
 - InformAlarm
 - MinorAlarm
 - MajorAlarm
- With the device type and the device name from which it was generated

**Note**

Pass-through traps will be cleared after a default interval of 10 minutes to one hour. If LMS does not know which device generated the trap, it ignores the trap.

For more information on Pass-Through Traps, see:

- [Pass-Through Standard SNMP Traps \(RFC 1215\)](#)
- [Pass-Through CISCO-STACK-MIB Traps](#)

- [Pass-Through STP Traps](#)
- [Pass-Through Repeater MIB Traps](#)
- [Pass-Through CISCO-RHINO-MIB Traps](#)
- [Pass-Through CISCO-VTP-MIB Traps](#)
- [Pass-Through CISCO-ENVMON-MIB Traps](#)
- [Pass-Through CISCO-VLAN-MEMBERSHIP-MIB Traps](#)
- [Pass-Through CISCO-ACCESS-ENVMON-MIB Traps](#)
- [Pass-Through CISCO-CONFIG-MAN-MIB Traps](#)
- [Pass-Through CISCO-ENTITY-FRU-CONTROL-MIB Traps](#)
- [Pass-Through CISCO-CONTENT-ENGINE-MIB Traps](#)
- [Pass-Through CISCO-DEVICE-EXCEPTION-REPORTING-MIB Traps](#)
- [Pass-Through CISCO-RTTMON-MIB Traps](#)
- [Pass-Through CISCO-VPDN-MGMT-MIB Traps](#)
- [Pass-Through POWER-ETHERNET-MIB Traps](#)

Pass-Through Standard SNMP Traps (RFC 1215)

SNMP Trap	Corresponding Event
Authentication Failure	MinorAlarm

Pass-Through CISCO-STACK-MIB Traps

SNMP Trap	Corresponding Event
lerAlarmOn	MinorAlarm
lerAlarmOff	MinorAlarm
ipPermitDeniedTrap	InformAlarm
sysConfigChangeTrap	InformAlarm

Pass-Through STP Traps

SNMP Trap	Corresponding Event
STPnewRoot	MajorAlarm
STPtopologyChange	MinorAlarm

Pass-Through Repeater MIB Traps

SNMP Trap	Corresponding Event
rptrHealth	MinorAlarm

Pass-Through SNMP Unidentified Traps

SNMP Trap	Corresponding Event
rpPtrGroupChange	InformAlarm
rpPtrResetEvent	InformAlarm

Pass-Through CISCO-RHINO-MIB Traps

SNMP Trap	Corresponding Event
ciscoLS1010ChassisFailureNotification	MajorAlarm
ciscoLS1010ChassisChangeNotification	InformAlarm

Pass-Through CISCO-VTP-MIB Traps

SNMP Trap	Corresponding Event
vtpConfigRevNumberError	InformAlarm
rvtpConfigDigestError	InformAlarm
vtpServerDisabled	MinorAlarm
vtpMtuTooBig	MinorAlarm
vtpVlanRingNumberConfigConflict	MinorAlarm
vtpVersionOneDeviceDetected	InformAlarm
vlanTrunkPortDynamicStatusChange	InformAlarm

Pass-Through CISCO-ENVMON-MIB Traps

SNMP Trap	Corresponding Event
ciscoEnvMonShutdownNotification	InformAlarm

Pass-Through CISCO-VLAN-MEMBERSHIP-MIB Traps

SNMP Trap	Corresponding Event
vmVmppsChange	MajorAlarm

Pass-Through CISCO-ACCESS-ENVMON-MIB Traps

SNMP Trap	Corresponding Event
caemTemperatureNotification	InformAlarm
caemVoltageNotification	MinorAlarm

Pass-Through CISCO-CONFIG-MAN-MIB Traps

SNMP Trap	Corresponding Event
ciscoConfigManEvent	InformAlarm

Pass-Through CISCO-ENTITY-FRU-CONTROL-MIB Traps

SNMP Trap	Corresponding Event
cevFanONS15540FanTray8	MajorAlarm
cevPortTransparent	MajorAlarm
cevPortWave	MajorAlarm

Pass-Through CISCO-CONTENT-ENGINE-MIB Traps

SNMP Trap	Corresponding Event
ciscoContentEngineWriteTransFailed	MajorAlarm
ciscoContentEngineOverloadBypass	MajorAlarm

Pass-Through CISCO-DEVICE-EXCEPTION-REPORTING-MIB Traps

SNMP Trap	Corresponding Event
cderMonitoredExceptionEvent	InformAlarm

Pass-Through CISCO-RTTMON-MIB Traps

SNMP Trap	Corresponding Event
rttMonConnectionChangeNotification	InformAlarm
rttMonTimeoutNotification	InformAlarm
rttMonThresholdNotification	MajorAlarm
rttMonVerifyErrorNotification	InformAlarm
rttMonNotification	MajorAlarm

Pass-Through CISCO-VPDN-MGMT-MIB Traps

SNMP Trap	Corresponding Event
cvpdnNotifSession	MajorAlarm

Pass-Through POWER-ETHERNET-MIB Traps

SNMP Trap	Corresponding Event
pethMainPowerUsageOnNotification	InformAlarm
pethMainPowerUsageOffNotification	MajorAlarm
pethPsePortDetectionStatus	<ul style="list-style-type: none"> • InformAlarm if deliveringPower • MajorAlarm if Others

Unidentified Traps

LMS may display an event as an Unidentified Trap. Normally an Unidentified Trap is reported when an event occurs on a device that is being discovered by LMS. To get more information on an Unidentified Trap see the corresponding Events page.

For details on clearing unidentified traps see [Clearing an Unidentified Trap](#).

Clearing an Unidentified Trap

You can manually clear Unidentified Traps from LMS. To do this:

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- Step 1** Select the Unidentified Trap and click **Clear**.
A message appears prompting you to confirm the clearing.
- Step 2** Enter your user ID.
This will be used as a reference to identify who cleared the Unidentified Trap.
- Step 3** Click **OK** to confirm.
The Unidentified trap is cleared.
To retain the trap click **Cancel**.
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