

10 SNMP (Simple Network Management Protocol)

Introduction

Simple Network Management Protocol (SNMP) is an application layer protocol that allows network devices to exchange management information. SNMP works by sending messages, called protocol data units (PDUs), to network devices. Network administrators use SNMP to monitor network performance and to solve network problems.

An SNMP-managed network is comprised of three fundamental parts: agents, managed devices, and network management systems (NMSs). An agent, which resides within a managed device (i.e., a switch), is responsible for translating its local knowledge of management information into a form compatible with SNMP. When certain defined asynchronous events occur within a switch, the managed device sends traps, using the SNMP protocol, to a designated NMS. The NMS then views and monitors the switch's information through management software applications such as HP Open View or X-Vision.

SNMP parameters and traps are configurable through the **snmpc** command. For more information on this command, refer to *Configuring SNMP Parameters and Traps* on page 10-2. You can view SNMP statistics through the **snmps** command. For more information on this command, refer to *Viewing SNMP Statistics* on page 10-8. Both of these commands are also listed on the **Networking** menu.

Configuring SNMP Parameters and Traps

The **snmpc** command allows you to configure SNMP parameters and set traps that will be sent to network management stations. The **snmpc** command also enables you to add, modify, or delete SNMP parameters. The **snmpc** command is listed under the **Networking** menu. For more information about the networking menu, see Chapter 22, “IP Routing.” To configure SNMP parameters, enter the following command:

snmpc

A screen similar to the following displays:

SNMP current configuration:

- 1) **Process SNMP Packets** - enabled
- 2) **Set Community Name** - public
- 3) **Get Community Name** - public
- 4) **Trap Community Name** - public
- 5) **Broadcast Traps** - disabled
- 6) **0 Unicast Traps** - disabled

(save/quit/cancel)

:

- To change a value, enter the number corresponding to that value, an equal sign (=), and the new value. For example, to enable broadcast traps, enter **5=enabled**.
- To clear an entry, specify the value as a period (.), as in **2=.** Note that true/false values and enabled/disabled values cannot be cleared.
- To save all your modifications, enter **save**.
- To cancel all your modifications, enter **Cancel** or **Ctrl-C**.
- To view the parameters currently configured, enter a question mark (?).

1) Process SNMP Packets

To enable or disable SNMP, enter 1, an equal sign (=), and the enable or disable command. The following is an example:

1=enable

2) Set Community Name

The Set Community Name variable is a password (up to 16 characters) that enables NMS stations to read and write objects through SNMP. The default Set Community Name is “public,” which allows all NMS stations read access to readable objects. If you want to specify a Set Community Name password, enter a **2**, an equal sign (=), and the new Set Community Name. The following is an example:

2=alpha

◆ Note ◆

Set Community Names with spaces must be enclosed in quotations (e.g., “test lab”).

3) Get Community Name

The Get Community Name variable is a password (up to 16 characters) that enables NMS stations to read objects defined in the MIBs. The default Get Community Name is “public,” which allows all NMS station read access to readable objects. If you want to specify a Get Community Name password, enter a **2**, an equal sign (=), and the new Get Community Name. The following is an example display:

2=beta

◆ **Note** ◆

Get Community Names with spaces must be enclosed in quotations (e.g., “**data center**”).

4) Trap Community Name

The Trap Community Name (up to 16 characters) is a password that enables NMS stations to collect traps (provided the NMS stations are configured with the same corresponding Trap Community Name). The default Trap Community Name is “public,” which allows the switch to send traps to all NMS stations configured with the Trap Community Name, “public.” If you want to specify a Trap Community Name password, enter a **4**, an equal sign (=), and the new Trap Community Name. The following is an example display.

4=trap1

◆ **Note** ◆

Trap Community Names with spaces must be enclosed in quotations (e.g., “**trap 1**”).

5) Broadcast Traps

When broadcast traps are enabled, the switch transmits traps to all NMS stations in the default group. If you enable this parameter, unicast traps (see option 6 below) will automatically be disabled. The default for broadcast traps is **disabled**. To enable broadcast traps, enter the following command:

5=enabled

The following prompt displays:

UDP destination port (162):

Enter the UDP destination port for the traps. UDP port 162 is the default port and is commonly used for traps; however, the destination port can be re-defined to accommodate a network management station using a nonstandard port.

◆ **Note** ◆

The destination port configured here must correspond to the UDP destination port configured at the receiving network management station(s).

6) Unicast Traps

When unicast traps are enabled, the switch transmits traps only to the IP address(es) defined in the **snmpc** list below this field.

◆ Note ◆

If both broadcast and unicast traps are disabled, then the switch does not transmit any traps.

If you enable this parameter, broadcast traps (see option 5 above) will automatically be disabled. The default for unicast traps is disabled. To enable unicast traps, enter the following command:

6=enabled

Configuring a New Network Management Station

- a. To define a new network management station, enter 7, followed by an equal sign (=), and the IP address of the network management station to receive traps. You can define a maximum of ten network management stations. They must be numbered sequentially from 7 through 16. If network management stations are already shown on the display for this menu, use the next highest number to add another station. The following is an example of how to define the first network management station:

7=123.12.1.1

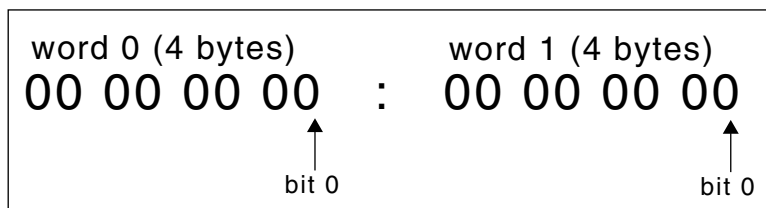
The following prompt displays:

Enter trap mask words 0:1 (ffffff:ffffff):

Each trap in the switch is assigned a mask that consists of “words”. The mask value **ffffff:ffffff** indicates that *all* traps are enabled for words 0 and 1. If you want to accept this default (all traps enabled for words 0 and 1), press <Enter>. If you want to enable one or more specific traps for words 0 and 1, you must calculate their bit configurations and enter the new mask value at the prompt. Trap types and their bit positions are listed in the tables beginning on page 10-11.

Here is a sample configuration for setting a combination of traps.

Bit Configurations for Setting Traps



Example: To set a combination of trap types, add the hex values of the bits as follows:

Trap Type	Bit Settings	
	Word 0	Word 1
tempAlarm	00 00 00 00	00 00 00 01
risingAlarm	00 00 40 00	00 00 00 00
fallingAlarm	00 00 80 00	00 00 00 00
portPartitioned	00 00 00 00	00 00 02 00
Total =	00 00 C0 00	00 00 02 01

You would then enter the total mask value of the traps, as follows:

Enter trap mask words 0:1 (ffffff:ffffff): 0000C000:00000201

This setting would enable only these four traps for words 0 and 1.

- b. The following prompt displays:

Enter trap mask words 2:3 (ffffff:ffffff):

Enter the trap type(s) for words 2 and 3. If you want to accept the default (all traps enabled for words 2 and 3), press **<Enter>**. To set one or more specific traps, again calculate the bit configurations and enter the new mask value at the prompt.

- c. The following prompt displays:

Enter destination port (162):

Enter the UDP destination port for the traps configured above. If you choose the default in field four, port 162, press **<Enter>** at the prompt.

- d. The following prompt displays:

NMS state (on):

Indicate whether or not traps will be sent to this Network Management Station (the NMS defined in step a). If the NMS state is enabled (**on**), the NMS will be notified of traps. Press **<Enter>** to accept the default (**on**). If the NMS state is disabled (**off**), the NMS will not be notified of traps.

- e. The following prompt displays:

Special Access? (no): yes

Select whether or not this Network Management Station has special access. If you enter **yes**, this NMS will have administrative privileges such as modifying, deleting, or adding to other trap entries as well as its own. Without special access, an NMS can only update its own entry. If you choose the default, **no**, simply press **<Enter>** at the prompt.

Save your configuration by typing **save** and then **<Enter>**.

- f. After you have saved your configuration, the prompt re-displays. The above entries will create an NMS number 6 in the list. Traps will be sent to the IP address specified for that NMS station (provided the NMS state is **on** and unicast traps are **enabled**).

To view your new SNMP configuration, enter the **snmpc** command. The following is a sample display of the output from the **snmpc** command after the above sample configuration:

SNMP current configuration:

```
1) Process SNMP Packets - enabled
2) Set Community Name   - admin
3) Get Community Name   - public
4) Trap Community Name  - trap1
5) Broadcast Traps      - disabled
6) 1 Unicast Traps      - enabled
7) NMS IP address       - 123.12.1.1           /162 --bfffffff:ffffff (on) (SA)
                                           -- ffffffff:ffffff

(save/quit/cancel)
:
```

The values that appear to the immediate right of the NMS IP address are: the UDP destination port number (**162**), the trap bit masks (**fffffff.bfffffff**), the functional state of the NMS (**on**), and the special access (**SA**) status (this does not appear if you selected **no** for special access in step above).

To add network management stations to this current SNMP configuration, enter the next highest entry number from the last defined NMS. For example, if you wanted to add another NMS to the above sample configuration, you would enter the following:

8=123.22.2.2

Please note that any additional NMS entries must have a unique IP address. Repeat steps **b** through **f** to continue configuring additional NMS entries. Once you save your configuration and re-enter the **snmpc** command at the prompt, the screen refreshes to include the new NMS entry. The following is a sample display:

SNMP current configuration:

```

1) Process SNMP Packets - enabled
2) Set Community Name   - public
3) Get Community Name   - public
4) Trap Community Name   - public
5) Broadcast Traps      - disabled
6) 1 Unicast Traps      - enabled
7) NMS IP address       - 123.12.1.1      /162 -- ffffffff:bfffffff (on) (SA
                                         -- ffffffff:ffffffff)
8) NMS IP address       - 123.22.2.2      /162 -- ffffffff:ffffffff (on)
                                         -- ffffffff:ffffffff

(save/quit/cancel)
:
```

- g.** To delete an IP address added to this list, enter the NMS index number of the entry followed by the decimal (.) character. The following example would delete the NMS IP address listed at number **8**.

8=.

Viewing SNMP Statistics

The **snmps** command is used to display SNMP statistics. The command displays the SNMP activities since the last time the switch was powered on, or since the last Reset was executed. It also displays a list of the current traps.

The **snmps** command is listed on the **Networking** menu. For more information about the networking menu, see Chapter 22, “IP Routing.” To display SNMP statistics, enter the following command:

```
snmps
```

A screen similar to the following displays:

SNMP Statistics		
	In	Out
Total Packets	67	67
Bad Versions	0	
Bad Community Names	0	
Bad Community Use	0	
Bad Type Discards:	0	
ASN Parse Errors	0	
Too Big Errors	0	0
No Such Name Errors	0	1
Bad Value Errors	0	0
Read Only Errors	0	0
General Errors	0	0
Total Variable Requests	186	
Total Set Variable Requests	0	
Get Requests	17	0
Get Next Requests	50	0
Set Requests	0	0
Get Responses	0	67
Authentication Trap Enables:	0	
Traps	0	0

Trap generation is ENABLED to these management stations:

```
198.206.1.1 /162 -- ffffffff:bfffffff (on)
198.2.1.1   /162 -- ffffffff:7fffffff (off) (SA)
```

Total Packets

The total number of packets received and sent.

Bad Versions

The total number of SNMP messages delivered to the switch SNMP protocol entity that were for an unsupported SNMP version.

Bad Community Names

The total number of SNMP message names delivered to the switch SNMP protocol entity that used an unknown SNMP community name.

Bad Community Use

The total number of SNMP messages delivered to the SNMP protocol entity which represented an SNMP operation that was not allowed by the SNMP community named in the message.

Bad Type Discards

The total number of SNMP entries discarded because the request type was not recognized.

ASN Parse Errors

The total number of ASN.1 or BER errors encountered by the SNMP protocols entity when decoding received SNMP Messages.

Too Big Errors

The total number of SNMP PDUs delivered to the SNMP protocol entity with a value in the error-status field of 'tooBig'.

No Such Name Error

The total number of SNMP PDUs delivered to the SNMP protocol entity with value in the error-status field of 'noSuchName'.

Bad Value Errors

The total number of valid SNMP PDUs delivered to the SNMP protocol entity with a value in the error-status field of 'readOnly.' It is a protocol error to generate an SNMP PDU that contains the value 'readOnly' in the error-status field; as such this object is provided as a means of detecting incorrect implementations of the SNMP.

Read Only Errors

The total number of valid SNMP PDUs delivered to the SNMP protocol entity for with an error-status field value of 'Read Only'.

General Errors

The total number of SNMP PDUs delivered to the switch SNMP protocol entity with an error-status field value of 'GenError'.

Total Variable Requests

The total number of MIB objects from which Requests have been retrieved successfully by the SNMP protocol entity as the result of receiving valid SNMP Get-Request and Get-Next PDUs.

Total Set Variable Requests

The total number of MIB objects from which Requests have been retrieved successfully by the SNMP entity as the result of receiving valid SNMP Set-Request PDUs.

Get Requests

The total number of SNMP Get-Request PDUs accepted and processed by the switch SNMP protocol entity.

Get Next Requests

The total number of SNMP Get-Next PDUs accepted and processed by the switch SNMP protocol entity.

Set Requests

The total number of SNMP Set-Request PDUs which have been accepted and processed by the switch SNMP protocol entity.

Get Responses

The total number of SNMP Response PDUs accepted and processed by the switch SNMP protocol entity.

Authentication Trap Enables

Indicates whether the SNMP agent Enable process is permitted to generate authentication-failure traps. The value of this object overrides any configuration information, providing a means to enable all authentication-failure traps.

Traps

The number of SNMP Trap PDUs generated by the SNMP protocol entity. Traps are broadcast only.

Traps are broadcast only

This appears if traps are set to broadcast. The address is the broadcast address of the default VLAN of AutoTracker group 1.

Trap generation is ENABLED to these management stations

This appears if you have used the **snmpc** command to set up one or more management stations to receive traps. The trap tables on the following pages list the traps that are currently supported.

Trap Tables

The following table is a summary list of the supported SNMP traps and their values.

<i>Trap Name</i>	<i>Object ID</i>	<i>Bit Position</i>	<i>Hex Value</i>	<i>Page</i>
coldStart	1.3.6.1.2.1.11.0	(word 0) 0	(word 0) 1	10-15
warmStart	1.3.6.1.2.1.11.1	(word 0) 1	(word 0) 2	10-16
linkDown	1.3.6.1.2.1.11.2	(word 0) 2	(word 0) 4	10-16
linkUp	1.3.6.1.2.1.11.3	(word 0) 3	(word 0) 8	10-17
authentication failure	1.3.6.1.2.1.11.4	(word 0) 4	(word 0) 10	10-17
egpNeighborLoss	1.3.6.1.2.1.11.5	(word 0) 5	(word 0) 20	10-18
frDLCIStatusChange	1.3.6.1.2.1.11.7	(word 0) 7	(word 0) 80	10-18
ipxTrapCircuitDown	1.3.6.1.4.1.23.2.5.5.1	(word 0) 8	(word 0) 100	10-19
ipxTrapCircuitUp	1.3.6.1.4.1.23.2.5.5.2	(word 0) 9	(word 0) 200	10-19
newRoot	1.3.6.1.2.17.0.1	(word 0) 10	(word 0) 400	10-19
topologyChange	1.3.6.1.2.17.0.2	(word 0) 11	(word 0) 800	10-20
atmfVpcChange	1.3.6.1.4.1.353.0.1	(word 0) 12	(word 0) 1000	10-21
atmfVccChange	1.3.6.1.4.1.353.0.2	(word 0) 13	(word 0) 2000	10-22
rising Alarm	1.3.6.1.2.16.0.1	(word 0) 14	(word 0) 4000	10-23
falling Alarm	1.3.6.1.2.16.0.2	(word 0) 15	(word 0) 8000	10-24
dsx3LineStatusChange	1.3.6.1.2.1.10.20.15.0.1	(word 0) 16	(word 1) 1 0000	10-25
dsx1LineStatusChange	1.3.6.1.2.1.10.18.15.0.1	(word 0) 17	(word 1) 2 0000	10-26
tempAlarm	1.3.6.1.4.1.800.3.1.1.4.0.1	(word 1) 0	(word 1) 1	10-27
moduleChange	1.3.6.1.4.1.800.3.1.1.4.0.2	(word 1) 1	(word 1) 2	10-28
powerEvent	1.3.6.1.4.1.800.3.1.1.4.0.3	(word 1) 2	(word 1) 4	10-29
controllerEvent	1.3.6.1.4.1.800.3.1.1.4.0.4	(word 1) 3	(word 1) 8	10-30
loginViolation	1.3.6.1.4.1.800.3.1.1.4.0.5	(word 1) 4	(word 1) 10	10-31
macVlanViolation	1.3.6.1.4.1.800.3.1.1.4.0.6	(word 1) 5	(word 1) 20	10-31
macDuplicatePort	1.3.6.1.4.1.800.3.1.1.4.0.7	(word 1) 6	(word 1) 40	10-32
portLinkUpEvent	1.3.6.1.4.1.800.3.1.1.4.0.8	(word 1) 7	(word 1) 80	10-33
portLinkDownEvent	1.3.6.1.4.1.800.3.1.1.4.0.9	(word 1) 8	(word 1) 100	10-34
portPartitioned	1.3.6.1.4.1.800.3.1.1.4.0.10	(word 1) 9	(word 1) 200	10-35

<i>Trap Name</i>	<i>Object ID</i>	<i>Bit Position</i>	<i>Hex Value</i>	<i>Page</i>
portRecordMismatch	1.3.6.1.4.1.800.3.1.1.4.0.11	(word 1) 10	(word 1) 400	10-36
groupChange	1.3.6.1.4.1.800.3.1.1.4.0.14	(word 1) 13	(word 1) 2000	10-37
vlanChange	1.3.6.1.4.1.800.3.1.1.4.0.15	(word 1) 14	(word 1) 4000	10-38
portMove	1.3.6.1.4.1.800.3.1.1.4.0.16	(word 1) 15	(word 1) 8000	10-39
moduleResetReload	1.3.6.1.4.1.800.3.1.1.4.0.17	(word 1) 16	(word 1) 1 0000	10-40
systemEvent	1.3.6.1.4.1.800.3.1.1.4.0.18	(word 1) 17	(word 1) 2 0000	10-41
vlanRouteTableFull	1.3.6.1.4.1.800.3.1.1.4.0.19	(word 1) 18	(word 1) 4 0000	10-42
sapTableFull	1.3.6.1.4.1.800.3.1.1.4.0.20	(word 1) 19	(word 1) 8 0000	10-42
atmSSCOPstate	1.3.6.1.4.1.800.3.1.1.4.0.21	(word 1) 20	(word 1) 10 0000	10-43
ilmiState	1.3.6.1.4.1.800.3.1.1.4.0.22	(word 1) 21	(word 1) 20 0000	10-43
atmConnection	1.3.6.1.4.1.800.3.1.1.4.0.23	(word 1) 22	(word 1) 40 0000	10-44
atmService	1.3.6.1.4.1.800.3.1.1.4.0.24	(word 1) 23	(word 1) 80 0000	10-45
dlciNew	1.3.6.1.4.1.800.3.1.1.4.0.27	(word 1) 26	(word 1) 400 0000	10-46
dlciDel	1.3.6.1.4.1.800.3.1.1.4.0.28	(word 1) 27	(word 1) 800 0000	10-47
dlciUp	1.3.6.1.4.1.800.3.1.1.4.0.29	(word 1) 28	(word 1) 1000 0000	10-48
dlciDn	1.3.6.1.4.1.800.3.1.1.4.0.30	(word 1) 29	(word 1) 2000 0000	10-49
portManualForwarding Mode	1.3.6.1.4.1.800.3.1.1.4.0.31	(word 1) 30	(word 1) 4000 0000	10-50
fddiCFStateChange	1.3.6.1.4.1.800.3.1.1.4.0.32	(word 1) 31	(word 1) 8000 0000	10-51
duplicateIPAddress	1.3.6.1.4.1.800.3.1.1.4.0.35	(word 2) 2	(word 2) 4	10-52
duplicateMACaddress	1.3.6.1.4.1.800.3.1.1.4.0.36	(word 2) 3	(word 2) 8	10-53
healthThresholdRising	1.3.6.1.4.1.800.3.1.1.4.0.37	(word 2) 4	(word 2) 10	10-54
healthThresholdFalling	1.3.6.1.4.1.800.3.1.1.4.0.38	(word 2) 5	(word 2) 20	10-54
healthThresholdDevice	1.3.6.1.4.1.800.3.1.1.4.0.39	(word 2) 6	(word 2) 40	10-55
healthThresholdModule	1.3.6.1.4.1.800.3.1.1.4.0.40	(word 2) 7	(word 2) 80	10-55
xylanXIPXMAPPort StatusChange	1.3.6.1.4.1.800.3.1.1.4.0.41	(word 2) 8	(word 2) 100	10-56
xylanSIPXMAPPortState Change	1.3.6.1.4.1.800.3.1.1.4.0.42	(word 2) 9	(word 2) 200	10-57
clkBusLineStateChange	1.3.6.1.4.1.800.3.1.1.4.0.45	(word 2) 10	(word 2) 400	10-60
xylanXIPGMAPFailed Update	1.3.6.1.4.1.800.3.1.1.4.0.44	(word 2) 11	(word 2) 800	10-59

<i>Trap Name</i>	<i>Object ID</i>	<i>Bit Position</i>	<i>Hex Value</i>	<i>Page</i>
avlAuthAttempt	1.3.6.1.4.1.800.3.1.1.4.0.43	(word 2) 16	(word 2) 1 0000	10-58
mcpStatisticsOverflow	1.3.6.1.4.1.800.3.1.1.4.0.67	(word 2) 18	(word 2) 4 0000	10-62
mcpShortCut	1.3.6.1.4.1.800.3.1.1.4.0.68	(word 2) 19	(word 2) 8 0000	10-66
mcpIngressRetryTime	1.3.6.1.4.1.800.3.1.1.4.0.69	(word 2) 20	(word 2) 10 0000	10-67
vrrpTrapNewMasterOut	1.3.6.1.2.1.46.1.3.1.0.3	(word 2) 21	(word 2) 20 0000	10-68
vrrpAuthFailure	1.3.6.1.2.1.46.1.3.1.0.4	(word 2) 22	(word 2) 40 0000	10-69
blind-violation	1.3.6.1.4.1.800.3.1.1.1.0.46	(word 2) 23	(word 2) 80 0000	10-61
mpcStatisticsOverflow	1.3.6.1.4.1.800.3.1.1.1.0.47	(word 2) 18	(word 2) 4 0000	10-62
fddiLerFlagChange	1.3.6.1.4.1.800.3.1.1.4.0.65	(word 3) 0	(word 3) 1	10-63
fddiCLTFailCntIncr	1.3.6.1.4.1.800.3.1.1.4.0.66	(word 3) 1	(word 3) 2	10-64
oamVCAIS	1.3.6.1.4.1.800.3.1.1.4.0.71	(word 3) 10	(word 3) 400	10-70
oamVCRDI	1.3.6.1.4.1.800.3.1.1.4.0.72	(word 3) 11	(word 3) 800	10-71
oamVCLOC	1.3.6.1.4.1.800.3.1.1.4.0.73	(word 3) 12	(word 3) 1000	10-72
oamVCUnsuccessLoop	1.3.6.1.4.1.800.3.1.1.4.0.74	(word 3) 13	(word 3) 2000	10-73
oamVPAIS	1.3.6.1.4.1.800.3.1.1.4.0.75	(word 3) 14	(word 3) 4000	10-74
oamVPRDI	1.3.6.1.4.1.800.3.1.1.4.0.76	(word 3) 15	(word 3) 8000	10-75
oamVPLOC	1.3.6.1.4.1.800.3.1.1.4.0.77	(word 3) 16	(word 3) 1 0000	10-76
oamVPUnsuccessLoop	1.3.6.1.4.1.800.3.1.1.4.0.78	(word 3) 17	(word 3) 2 0000	10-77
accountEvent	1.3.6.1.4.1.800.3.1.1.4.0.86	(word 3) 21	(word 3) 20 0000	10-78
Over1Alarm	1.3.6.1.4.1.800.3.1.1.4.0.87	(word 3) 22	(word 3) 40 0000	10-78
Under1Event	1.3.6.1.4.1.800.3.1.1.4.0.88	(word 3) 23	(word 3) 80 0000	10-79
Over2Alarm	1.3.6.1.4.1.800.3.1.1.4.0.89	(word 3) 24	(word 3) 100 0000	10-79
Under2Event	1.3.6.1.4.1.800.3.1.1.4.0.90	(word 3) 25	(word 3) 200 0000	10-80
Over3Alarm	1.3.6.1.4.1.800.3.1.1.4.0.91	(word 3) 26	(word 3) 400 0000	10-80
Under3Event	1.3.6.1.4.1.800.3.1.1.4.0.92	(word 3) 27	(word 3) 8000 0000	10-81
NoDeviceAlarm	1.3.6.1.4.1.800.3.1.1.4.0.93	(word 3) 28	(word 3) 1000 0000	10-81
FileAlarm	1.3.6.1.4.1.800.3.1.1.4.0.94	(word 3) 29	(word 3) 2000 0000	10-82
ldpPeerCreate	1.3.6.1.4.1.800.3.1.1.4.0.80	(word 3) 5	(word 3) 20	10-83
ldpPeerDelete	1.3.6.1.4.1.800.3.1.1.4.0.81	(word 3) 6	(word 3) 40	10-84
ldpSessionCreate	1.3.6.1.4.1.800.3.1.1.4.0.82	(word 3) 17	(word 3) 80	10-85

Trap Tables

<i>Trap Name</i>	<i>Object ID</i>	<i>Bit Position</i>	<i>Hex Value</i>	<i>Page</i>
ldpSessionDelete	1.3.6.1.4.1.800.3.1.1.4.0.83	(word 3) 8	(word 3) 100	10-86
lecStateChangeEvent	1.3.6.1.4.1.800.3.1.1.4.0.96	(word 2) 26	(word 2) 40 0000	10-87

SNMP Standard Traps

This section lists the standard traps that are defined within RFC (MIB) documents. These traps signify events as they occur on common network devices. The following information on traps is provided in the tables.

Trap. The object name of the trap as it is defined in the corresponding MIB (Management Information Base). Alcatel supports standardized and proprietary MIBS.

Object ID. The SNMP object identifier (OID) for this trap.

Description. A brief explanation describing the circumstances under which a specific trap is generated.

Bit Position. The trap's specific position in a bit mask (a bit mask is a binary notation which represents a combination of all four trap words). By mapping a specific trap to its binary position, you can determine whether or not a trap is enabled. For example, a trap is enabled if its corresponding bit is set to 1 and disabled if its corresponding bit is set to 0.

Word. A word is a set of four consecutive bytes within a system's memory. Alcatel allocates a total of four words for trap representation. Each of the 32 bit positions within a word corresponds to a specific trap. The first word, Word 0, contains only standard traps as they are defined within RFC (MIB) documents. Words 1, 2, and 3 contain Alcatel-specific traps.

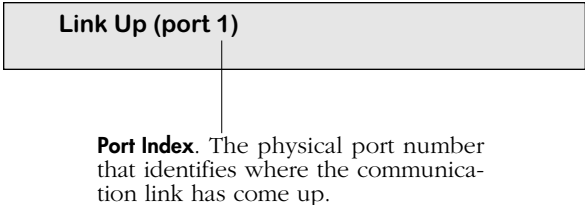
Hex Value. The resulting hexadecimal value of the bit mask.

Trap Text and Variable Description. Trap text is a brief statement containing additional information that can help you narrow down the source of the trap, such as slot/port numbers, module types, and MAC addresses (variable descriptions have been added for your convenience). When a specific trap is triggered, it may display in various text formats, depending on the software application through which it is viewed. The trap text in the following tables are examples of trap text displayed through the HP OpenView Alarm Log and the Traps window in X-Vision Discovery. For more information on X-Vision, see the on-line documentation included with the application.

Trap	coldStart
Object ID	1.3.6.1.2.1.11.0
Description	The sending protocol entity is re-initializing itself such that the agent's configuration or the protocol entity implementation may be altered.
Bit Position (Word 0)	0
Hex Value (Word 0)	1
Trap Text and Variable Descriptions	Cold Start

Trap	warmStart
Object ID	1.3.6.1.2.1.11.1
Description	The sending protocol entity is re-initializing itself such that neither the agent's configuration nor the protocol entity implementation may be altered.
Bit Position (Word 0)	1
Hex Value (Word 0)	2
Trap Text and Variable Descriptions	Warm Start

Trap	linkDown
Object ID	1.3.6.1.2.1.11.2
Description	The sending protocol entity recognizes a failure in one of the communication links represented in the agent's configuration.
Bit Position (Word 0)	2
Hex Value (Word 0)	4
Trap Text and Variable Descriptions	<div data-bbox="391 1354 972 1423" data-label="Text"> <p>Link Down (port 1)</p> </div> <div data-bbox="479 1476 873 1554" data-label="Text"> <p>Port Index. The physical port number that identifies the failed communication link.</p> </div>

Trap	linkUp
Object ID	1.3.6.1.2.1.11.3
Description	The sending protocol entity recognizes that one of the communication links represented in the agent's configuration has come up.
Bit Position (Word 0)	3
Hex Value (Word 0)	8
Trap Text and Variable Descriptions	 <p>Port Index. The physical port number that identifies where the communication link has come up.</p>

Trap	authenticationFailure
Object ID	1.3.6.1.2.1.11.4
Description	The sending protocol entity is the addressee of a protocol message that is not properly authenticated.
Bit Position (Word 0)	4
Hex Value (Word 0)	10
Trap Text and Variable Descriptions	Authentication Failure

Trap	egpNeighborLoss
Object ID	1.3.6.1.2.1.11.5
Description	An EGP neighbor for whom the sending protocol entity was an EGP peer has been marked down and the peer relationship no longer exists.
Bit Position (Word 0)	5
Hex Value (Word 0)	20
Trap Text and Variable Descriptions	<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;">Neighbor Loss (neigh addr 192.168.10.1)</div> <p style="margin-left: 400px;">Neighbor IP Address. The IP address of this entry's EGP neighbor.</p>

Trap	frDLCIStatusChange
Object ID	1.3.6.1.2.1.11.6
Description	This trap is sent when the indicated virtual circuit has changed state. It has either been created or invalidated, or has toggled between the active and inactive states. However, if the reason for the state change is due to the DLCMI going down, traps should not be generated for each DLCI.
Bit Position (Word 0)	7
Hex Value (Word 0)	80
Variable Description	frCircuitIfIndex - The ifIndex value of the ifEntry this virtual circuit is layered into. frCircuitDlci - The DLCI for this virtual circuit. frCircuitState - Indicates whether this virtual circuit is active or inactive.

Trap	ipxTrapCircuitDown
Object ID	1.3.6.1.4.1.23.2.5.5.1
Description	This trap indicates that the specified circuit has gone down.
Bit Position (Word 0)	8
Hex Value (Word 0)	100
Variable Description	ipxCircSysInstance - The identifier of this instance of IPX. ipxCircIndex - The identifier of this circuit, for this instance of IPX.

Trap	ipxTrapCircuitUp
Object ID	1.3.6.1.4.1.23.2.5.5.2
Description	This trap indicates that the specified circuit has come up.
Bit Position (Word 0)	9
Hex Value (Word 0)	200
Variable Description	ipxCircSysInstance - The identifier of this instance of IPX. ipxCircIndex - The identifier of this circuit, for this instance of IPX.

Trap Type	newRoot
Object ID	1.3.6.1.2.1.17.0.1
Description	Sent by a bridge that became the new root of the Spanning Tree.
Bit Position (Word 0)	10
Hex Value (Word 0)	400
Trap Text and Variable Descriptions	Spanning Tree: A new agent has become the root of the Spanning Tree.

Trap	topologyChange
Object ID	1.3.6.1.2.1.17.0.2
Description	A bridge's configured ports either transitioned from Learning state to Forwarding state or from Forwarding state to Blocking state. This trap will not be sent if a newRoot trap was sent for the same transition.
Bit Position (Word 0)	11
Hex Value (Word 0)	800
Trap Text and Variable Descriptions	Spanning Tree: A configured port's state has transitioned.

Trap	atmfVpcChange
Object ID	1.3.6.1.4.1.353.0.1
Description	Either a permanent VPC was added or deleted at this ATM interface, or an existing VPC was modified.
Bit Position (Word 0)	12
Hex Value (Word 0)	1000
Trap Text and Variable Descriptions	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> A permanent VPC has been added or deleted at this ATM Interface, or the attributes of an existing VPC have been modified (index 0, Vpi 2, Status 3) </div> <p>Port Index. The port number of this ATM interface. Valid values range from 0 to 2147483647.</p> <p>VPI. The Virtual Path Identifier at this ATM interface. Valid values range from 0 to 4095.</p> <p>Operational Status. The present operating status of the VPC. The following integers are valid values:</p> <ul style="list-style-type: none"> 1 unknown 2 end2endUp 3 end2endDown 4 localUpEnd2endUnknown 5 localDown

Trap	atmfVccChange
Object ID	1.3.6.1.4.1.353.0.2
Description	Either a permanent VCC was added or deleted at this ATM interface, or an existing VCC was modified.
Bit Position (Word 0)	13
Hex Value (Word 0)	2000
Trap Text and Variable Descriptions	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>A permanent VCC has been added or deleted at this ATM Interface, or the attributes of an existing VPC have been modified (index 0, Vpi 2, Vci 6, status 3)</p> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Operational Status. The present operational status of the VCC. The following integers are valid values:</p> <ul style="list-style-type: none"> 1 unknown 2 end2endUp 3 end2endDown 4 localUpEnd2endUnknown 5 localDown </div> <div style="width: 45%;"> <p>Port Index. The port number which identifies this ATM interface. Valid values range from 0 to 2147483647.</p> <p>VPI. The Virtual Channel Identifier at this ATM interface. Valid values range from 0 to 4095. For virtual interfaces, this value has no meaning and is set to zero.</p> <p>VCI. The Virtual Channel Identifier at this ATM interface. Valid values range from 0 to 65535. For virtual interfaces, this value has no meaning and is set to zero.</p> </div> </div>

Trap	risingAlarm
Object ID	1.3.6.1.2.1.16.0.1
Description	The value of an Ethernet statistical variable (i.e., a member of the Ethernet statistics group as defined by RFC 1757) has exceeded its rising threshold. The variable's rising threshold and whether it will generate an SNMP trap for this condition are configured by a network management station running RMON.
Bit Position (Word 0)	14
Hex Value (Word 0)	4000
Trap Text and Variable Descriptions	<div> <div> <p>Variable. The MIB object identifier for the variable being sampled.</p> </div> <div> <p>Alarm Index. An index value for this entry in the alarm table. Each entry defines a diagnostic sample at a particular interval for an object on the device.</p> </div> </div> <div> <p>An RMON alarm entry crossed its rising threshold (index 25 var 2 type 1 value 201 rising threshold 200)</p> </div> <div> <p>Value. The value of the statistic during the last sampling period. For example, if the sample method is Delta Value, this value will be the difference between the samples at the beginning and end of the period. If the sample method is Absolute Value, this value will be the sampled value at the end of the period. This is the value that is compared with the rising threshold.</p> <p>Rising Threshold. A threshold for the sampled statistic. This trap is generated when the current sampled value is greater than or equal to this threshold, and the value at the last sampling interval was less than this threshold.</p> <p>After a rising event is generated, another such event will not be generated until the sampled value falls below this threshold and reaches the Falling Threshold value.</p> </div> <div> <p>Sampling Method. The method of sampling the selected variable and calculating the value for comparison with the thresholds. Possible values are integers 1 and 2:</p> <ol style="list-style-type: none"> 1 Absolute Value. The value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. 2 Delta Value. The value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds. </div>

Trap	fallingAlarm
Object ID	1.3.6.1.2.1.16.0.2
Description	The value of an Ethernet statistical variable (i.e., a member of the Ethernet statistics group as defined by RFC 1757) has dipped below its falling threshold. The variable's falling threshold and whether it will generate an SNMP trap for this condition are configured by a network management station running RMON.
Bit Position (Word 0)	15
Hex Value (Word 0)	8000
Trap Text and Variable Descriptions	<p>Variable. The MIB object identifier for the variable being sampled.</p> <p>Alarm Index. An index value for this entry in the alarm table. Each entry defines a diagnostic sample at a particular interval for an object on the device.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>An RMON alarm entry crossed its falling threshold (index 25 var 2 type 1 value 100 falling threshold 9)</p> </div> <p>Value. The value of the statistic during the last sampling period. For example, if the sample method is Delta Value, this value will be the difference between the samples at the beginning and end of the period. If the sample method is Absolute Value, this value will be the sampled value at the end of the period. This is the value that is compared with the falling threshold.</p> <p>Falling Threshold. A threshold for the sampled statistic. This trap is generated when the current sampled value is less than or equal to this threshold, and the value at the last sampling interval was more than this threshold.</p> <p>After a falling event is generated, another such event will not be generated until the sampled value rises above this threshold and reaches the Rising Threshold value.</p> <p>Sampling Method. The method of sampling the selected variable and calculating the value for comparison with the thresholds. Possible values are:</p> <ol style="list-style-type: none"> 1 Absolute Value. The value of the selected variable will be compared directly with the thresholds at the end of the sampling interval. 2 Delta Value. The value of the selected variable at the last sample will be subtracted from the current value, and the difference compared with the thresholds.

Trap Type	dsx3LineStatusChange
Object ID	1.3.6.1.2.1.10.30.15.0.1
Description	The value of an instance dsx3LineStatus changed.
Bit Position (Word 0)	16
Hex Value (Word 1)	1 0000
Trap Text and Variable Descriptions	<div><div>Line Status Change (line status 1, last change 4)</div><div><div>DSX3 Line Status. The line status of the interface. It contains loopback, failure, received alarm, and transmitted alarm information. Valid values range from 1 to 8191.</div><div>Last Change. The last value of MIB II's sysUpTime object at the time this DS3 entered its current line status state. If the current state was entered prior to the last re-initialization of the proxy-agent, this value is zero.</div></div></div>


Trap	dsx1LineStatusChange
Object ID	1.3.6.1.2.1.10.18.15.0.1
Description	The value of an instance dsx1LineStatus changed.
Bit Position (Word 0)	17
Hex Value (Word 1)	2 0000
Trap Text and Variable Descriptions	<div> <div>Line Status Change (line status 1, last change 2)</div> <div> <p>DSX1 Line Status. The line status of the interface. It contains loopback, failure, received alarm, and transmitted alarm information. Valid values range from 1 to 8191.</p> <p>Last Change. The last value of MIB II's sysUpTime object at the time this DS1 entered its current line status state. If the current state was entered prior to the last re-initialization of the proxy-agent, this value is zero.</p> </div> </div>

Extended Traps

This section lists Alcatel-specific traps. These extended traps are generated specifically by Alcatel switch devices.

Trap Type	tempAlarm
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.1
Description	The temperature sensor(s) have detected a temperature in the chassis that exceeds the threshold. These sensors are physically located on the MPM module, but can detect temperature changes throughout the chassis.
Bit Position (Word 1)	0
Hex Value (Word 1)	1
Trap Text and Variable Descriptions	Temperature Sensor has changed state to Over Threshold

Trap Type	moduleChange
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.2
Description	A module was either inserted or removed from the chassis. In some cases, this trap may also be generated when a module is reset.
Bit Position (Word 1)	1
Hex Value (Word 1)	2
Trap Text and Variable Descriptions	<div><div>Module was inserted or removed from chassis (slot 4, subunit 1, type 10)</div><div><div>Slot Number.</div><div>The slot number on the front of the chassis where this module was inserted or removed.</div></div><div><div>Submodule Type.</div><div>Indicates the submodule that was inserted or removed. Typically this value will be 1, meaning the base module was inserted or removed. If this value is 2, then HSM module 1 was moved. If this value is 3, then HSM module 2 was moved.</div></div><div><div>Module Type.</div><div>Indicates the module type that was inserted or removed. The following integers are valid values:</div></div><div><div><div><div>4</div><div>HSM</div></div><div><div>5</div><div>MPM</div></div><div><div>6</div><div>ESM 8-port 10BASE-T</div></div><div><div>7</div><div>ESM 16-port</div></div><div><div>8</div><div>TSM 6-port UTP/STP</div></div><div><div>9</div><div>FSM FDDI module</div></div><div><div>10</div><div>FSM CDDI module</div></div><div><div>11</div><div>ESM 4-port</div></div><div><div>12</div><div>ASM .5 MB multi-mode</div></div><div><div>13</div><div>ESM 12-port 10BASE-T</div></div><div><div>14</div><div>ESM 6-port universal module</div></div><div><div>15</div><div>MPM version II</div></div><div><div>16</div><div>ATM DS-3</div></div><div><div>17</div><div>FSM FDDI single mode</div></div><div><div>18</div><div>ASM .5 MB single mode</div></div><div><div>19</div><div>ASM UTP</div></div><div><div>20</div><div>ESM 8-port fiber</div></div><div><div>21</div><div>ESM 12-port Telco</div></div><div><div>22</div><div>TSM fiber</div></div><div><div>23</div><div>ASM 2 MB multi-mode</div></div><div><div>24</div><div>ASM 2 MB single mode</div></div><div><div>25</div><div>WSM</div></div><div><div>26</div><div>WSM BRI</div></div><div><div>27</div><div>HSM2 base slot type</div></div><div><div>28</div><div>PizzaSwitch reserved</div></div><div><div>29</div><div>TSM CD-6</div></div><div><div>30</div><div>ASM 2 MB single mode</div></div><div><div>33</div><div>10Meg Ether Universal</div></div><div><div>34</div><div>ATM E3 (European)</div></div><div><div>35</div><div>Ether 100 FX Sngl Full Dup</div></div><div><div>36</div><div>Ether 100 FX Multi Full Dup</div></div><div><div>37</div><div>Ether 100 TX CU Full Dup</div></div><div><div>39</div><div>PizzaPort (repeater)</div></div></div></div></div>

Trap Type	powerEvent
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.3
Description	A power supply was either inserted or removed from the chassis, or there is a problem with the power supply. This trap is also generated when a power supply is switched on or off.
Bit Position (Word 1)	2
Hex Value (Word 1)	4
Trap Text and Variable Descriptions	<div style="border: 1px solid black; background-color: #f0f0f0; padding: 5px; margin-bottom: 10px;"> Power Supply was inserted or removed from chassis or has a problem (ps1 3, ps2 2) </div>  <p>Power Supply Status. The current state of power supply 1 (ps1) and power supply 2 (ps2). The following integers are valid values:</p> <ul style="list-style-type: none"> 1 Unknown. 2 No power supply present. 3 Power supply okay. 4 Power supply bad.

Trap Type	controllerEvent
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.4
Description	A chassis controller (MPM) lost or gained the state of the master.
Bit Position (Word 1)	3
Hex Value (Word 1)	8
Trap Text and Variable Descriptions	<div>Chassis controller (MPM) lost or gained master control (slot 1, state 3)</div> <p>Slot. The slot number of the MPM that has lost or gained master control. Valid values are:</p> <ul style="list-style-type: none"> 1 Slot Number 1 2 Slot Number 2 <p>State. The current state of the MPM in the slot. The following integers are valid values:</p> <ul style="list-style-type: none"> 1 Unknown 2 Invalid 3 Master 4 Slave

Trap Type	loginViolation
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.5
Description	A login attempt for the User Interface (UI) failed due to an incorrect login ID or an invalid password. Three (3) consecutive unsuccessful attempts will trigger this alarm.
Bit Position (Word 1)	4
Hex Value (Word 1)	10
Trap Text and Variable Descriptions	Login Attempt failed due to invalid ID or password.

Trap Type	macVlanViolation
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.6
Description	Data from a MAC address that previously came from one a port with a VLAN-ID different from the VLAN where the frame had been previously received.
Bit Position (Word 1)	5
Hex Value (Word 1)	20
Trap Text and Variable Descriptions	<div>Receiving Port VLAN ID has changed (bridge address 0036589adf01)</div> <p>MAC Address. The MAC address from which data has come from two different ports in two different groups.</p>

Trap Type	macDuplicatePort
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.7
Description	Data from a MAC address that previously came from a source port different from the port where the frame previously was received although they both ports belong to the same VLAN.
Bit Position (Word 1)	6
Hex Value (Word 1)	40
Trap Text and Variable Descriptions	<div data-bbox="425 709 1260 783"> <p>VLAN Receiving Port has changed (bridge address 00145221cd02)</p> </div> <p>MAC Address. The MAC address from which data has come from two different ports in the same group.</p>

Trap Type	portLinkUpEvent																																												
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.8																																												
Description	A physical, logical, or virtual port was enabled. These ports may be enabled through the UI or Switch Manager. Note that if you enable a physical port, any associated logical and virtual ports will also be enabled. And if you enable a logical port, such as an ATM service, associated virtual ports will be enabled.																																												
Bit Position (Word 1)	7																																												
Hex Value (Word 1)	80																																												
Trap Text and Variable Descriptions	<div>Physical, logical or virtual port was enabled (slot 2 IF 2 type 203 instance 1)</div> <p>Slot Number. The slot number for the module that contains this port.</p> <p>Port Number. The port number on this module that was enabled.</p> <p>Port Type. The physical type of this port. The following integers are valid values:</p> <table> <tbody> <tr><td>1</td><td>Unknown</td></tr> <tr><td>2</td><td>Other</td></tr> <tr><td>3</td><td>Router</td></tr> <tr><td>4</td><td>Bridge</td></tr> <tr><td>5</td><td>Trunk</td></tr> <tr><td>6</td><td>ATM trunk port</td></tr> <tr><td>7</td><td>ATM LAN Emulation port</td></tr> <tr><td>8</td><td>Classical IP</td></tr> <tr><td>9</td><td>ATM MUX</td></tr> <tr><td>203</td><td>Ethernet 10BASE-T</td></tr> <tr><td>204</td><td>Ethernet 100BASE-T</td></tr> <tr><td>205</td><td>Token Ring 4 mbs</td></tr> <tr><td>206</td><td>Token Ring 16 mbs</td></tr> <tr><td>207</td><td>FDDI</td></tr> <tr><td>208</td><td>CDDI</td></tr> <tr><td>209</td><td>ATM 25 mbs</td></tr> <tr><td>210</td><td>ATM 50 mbs</td></tr> <tr><td>211</td><td>DS-1</td></tr> <tr><td>212</td><td>DS-3</td></tr> <tr><td>213</td><td>OC-3</td></tr> <tr><td>214</td><td>OC-12</td></tr> <tr><td>215</td><td>OC-48</td></tr> </tbody> </table> <p>Physical Instance. The specific instance of this slot/port/type. In most cases this value will be 1 (only one instance of the port), but an ATM port may have multiple instances. Possible values range from 1 to 254.</p>	1	Unknown	2	Other	3	Router	4	Bridge	5	Trunk	6	ATM trunk port	7	ATM LAN Emulation port	8	Classical IP	9	ATM MUX	203	Ethernet 10BASE-T	204	Ethernet 100BASE-T	205	Token Ring 4 mbs	206	Token Ring 16 mbs	207	FDDI	208	CDDI	209	ATM 25 mbs	210	ATM 50 mbs	211	DS-1	212	DS-3	213	OC-3	214	OC-12	215	OC-48
1	Unknown																																												
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204	Ethernet 100BASE-T																																												
205	Token Ring 4 mbs																																												
206	Token Ring 16 mbs																																												
207	FDDI																																												
208	CDDI																																												
209	ATM 25 mbs																																												
210	ATM 50 mbs																																												
211	DS-1																																												
212	DS-3																																												
213	OC-3																																												
214	OC-12																																												
215	OC-48																																												

Trap Type	portLinkDownEvent																																												
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.9																																												
Description	A physical, logical, or virtual port was disabled. These ports may be disabled through the UI or Switch Manager. Note that if you disable a physical port, any associated logical and virtual ports will also be disabled. And if you disable a logical port, such as an ATM service, associated virtual ports will also be disabled.																																												
Bit Position (Word 1)	8																																												
Hex Value (Word 1)	100																																												
Trap Text and Variable Descriptions	<div>Physical, logical or virtual port was disabled (slot 2 IF 2 type 203 instance 1)</div> <div> <p>Slot Number. The slot number for the module that contains this port.</p> <p>Port Number. The port number on this module that was disabled.</p> <p>Port Type. The physical type of this port. The following integers are valid values:</p> <table> <tr><td>1</td><td>Unknown</td></tr> <tr><td>2</td><td>Other</td></tr> <tr><td>3</td><td>Router</td></tr> <tr><td>4</td><td>Bridge</td></tr> <tr><td>5</td><td>Trunk</td></tr> <tr><td>6</td><td>ATM trunk port</td></tr> <tr><td>7</td><td>ATM LAN Emulation port</td></tr> <tr><td>8</td><td>Classical IP</td></tr> <tr><td>9</td><td>ATM MUX</td></tr> <tr><td>203</td><td>Ethernet 10BASE-T</td></tr> <tr><td>204</td><td>Ethernet 100BASE-T</td></tr> <tr><td>205</td><td>Token Ring 4 mbs</td></tr> <tr><td>206</td><td>Token Ring 16 mbs</td></tr> <tr><td>207</td><td>FDDI</td></tr> <tr><td>208</td><td>CDDI</td></tr> <tr><td>209</td><td>ATM 25 mbs</td></tr> <tr><td>210</td><td>ATM 50 mbs</td></tr> <tr><td>211</td><td>DS-1</td></tr> <tr><td>212</td><td>DS-3</td></tr> <tr><td>213</td><td>OC-3</td></tr> <tr><td>214</td><td>OC-12</td></tr> <tr><td>215</td><td>OC-48</td></tr> </table> <p>Physical Instance. The specific instance of this slot/port/type. In most cases this value will be 1 (only one instance of the port), but an ATM port may have multiple instances. Possible values range from 1 to 254.</p> </div>	1	Unknown	2	Other	3	Router	4	Bridge	5	Trunk	6	ATM trunk port	7	ATM LAN Emulation port	8	Classical IP	9	ATM MUX	203	Ethernet 10BASE-T	204	Ethernet 100BASE-T	205	Token Ring 4 mbs	206	Token Ring 16 mbs	207	FDDI	208	CDDI	209	ATM 25 mbs	210	ATM 50 mbs	211	DS-1	212	DS-3	213	OC-3	214	OC-12	215	OC-48
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212	DS-3																																												
213	OC-3																																												
214	OC-12																																												
215	OC-48																																												

Trap Type	portPartitioned																																												
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.10																																												
Description	The physical port detected jabber (i.e., the port has transitioned through enable/disable states more than 50 times in the past 200 ms). Jabber may be produced by a bad port connection, such as a faulty cable.																																												
Bit Position (Word 1)	9																																												
Hex Value (Word 1)	200																																												
Trap Text and Variable Descriptions	<div> <div> Port jabber detected (enabled/disabled faster than 50 times in 200 ms) (slot 2, IF 2, type 203, instance 1) </div> <div> <p>Slot Number. The slot number for the module that contains this port.</p> <p>Port Number. The port number on this module that detected jabber.</p> <p>Port Type. The physical type of this port. The following integers are valid values:</p> <table> <tr><td>1</td><td>Unknown</td></tr> <tr><td>2</td><td>Other</td></tr> <tr><td>3</td><td>Router</td></tr> <tr><td>4</td><td>Bridge</td></tr> <tr><td>5</td><td>Trunk</td></tr> <tr><td>6</td><td>ATM trunk port</td></tr> <tr><td>7</td><td>ATM LAN Emulation port</td></tr> <tr><td>8</td><td>Classical IP</td></tr> <tr><td>9</td><td>ATM MUX</td></tr> <tr><td>203</td><td>Ethernet 10BASE-T</td></tr> <tr><td>204</td><td>Ethernet 100BASE-T</td></tr> <tr><td>205</td><td>Token Ring 4 mbs</td></tr> <tr><td>206</td><td>Token Ring 16 mbs</td></tr> <tr><td>207</td><td>FDDI</td></tr> <tr><td>208</td><td>CDDI</td></tr> <tr><td>209</td><td>ATM 25 mbs</td></tr> <tr><td>210</td><td>ATM 50 mbs</td></tr> <tr><td>211</td><td>DS-1</td></tr> <tr><td>212</td><td>DS-3</td></tr> <tr><td>213</td><td>OC-3</td></tr> <tr><td>214</td><td>OC-12</td></tr> <tr><td>215</td><td>OC-48</td></tr> </table> </div> <div> <p>Physical Instance. The specific instance of this slot/port/type. In most cases this value will be 1 (only one instance of the port), but an ATM port may have multiple instances. Possible values range from 1 to 254.</p> </div> </div>	1	Unknown	2	Other	3	Router	4	Bridge	5	Trunk	6	ATM trunk port	7	ATM LAN Emulation port	8	Classical IP	9	ATM MUX	203	Ethernet 10BASE-T	204	Ethernet 100BASE-T	205	Token Ring 4 mbs	206	Token Ring 16 mbs	207	FDDI	208	CDDI	209	ATM 25 mbs	210	ATM 50 mbs	211	DS-1	212	DS-3	213	OC-3	214	OC-12	215	OC-48
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214	OC-12																																												
215	OC-48																																												

Trap Type	portRecordMismatch
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.11
Description	The port configuration is different from the previous configuration. Typically this trap is generated when a NIC of one type is swapped for a different type (i.e., Ethernet for FDDI, ATM for Token Ring, etc.).
Bit Position (Word 1)	10
Hex Value (Word 1)	400
Trap Text and Variable Descriptions	<div> <div>Port configuration different than previously detected (slot 2, IF 2, type 203, instance 1)</div> <div> <div>Slot number. The slot number for the module that contains this port.</div> <div>Port number. The port number on this module that has a different configuration.</div> <div> Port Type. The physical type of this port. The following integers are valid values: <ul style="list-style-type: none"> 1 Unknown 2 Other 3 Router 4 Bridge 5 Trunk 6 ATM trunk port 7 ATM LAN Emulation port 8 Classical IP 9 ATM MUX 203 Ethernet 10BASE-T 204 Ethernet 100BASE-T 205 Token Ring 4 mbs 206 Token Ring 16 mbs 207 FDDI 208 CDDI 209 ATM 25 mbs 210 ATM 50 mbs 211 DS-1 212 DS-3 213 OC-3 214 OC-12 215 OC-48 </div> </div> <div>Physical Instance. The specific instance of this slot/port/type. In most cases this value will be 1 (only one instance of the port), but an ATM port may have multiple instances. Possible values range from 1 to 254.</div> </div>

Trap Type	groupChange
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.14
Description	A Group was either created or deleted through the UI or Switch Manager.
Bit Position (Word 1)	13
Hex Value (Word 1)	2000
Trap Text and Variable Descriptions	<div><div>Group created or deleted (vlan 2 admin status 4)</div><div><p>Group number. The Group number that has been created or deleted.</p><p>Administrative Status. The administrative status for this group. Possible options are:</p><ol style="list-style-type: none">1 Disabled. All ports in this Group are disabled.2 Enabled. All ports in this Group are enabled.3 Deleted. This Group was deleted, and all attached virtual ports and routers are detached and deleted.4 Created. This Group has been created.5 Modify. This Group has been modified.</div></div>

Trap Type	vlanChange
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.15
Description	A VLAN was either created or deleted through the UI or Switch Manager.
Bit Position (Word 1)	14
Hex Value (Word 1)	4000
Trap Text and Variable Descriptions	<div style="border: 1px solid black; background-color: #f0f0f0; padding: 10px; margin-bottom: 10px;"> VLAN Change created or deleted (group 2, admin status 4) </div> <p>Group number. The Group number to which this VLAN belongs.</p> <p>Administrative status. The administrative status for this VLAN. The following integers are valid values:</p> <ul style="list-style-type: none"> 1 Enabled. 2 Disabled. 3 Deleted. This VLAN was deleted. 4 Created. This Group has been created. 5 Modify. This Group has been modified.

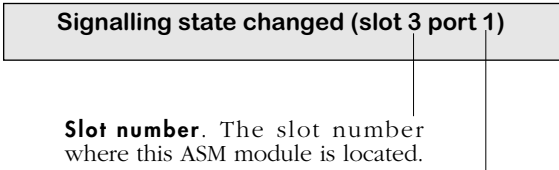
Trap Type	portMove
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.16
Description	The specified port has moved from a Group or has had its configuration changed.
Bit Position (Word 1)	15
Hex Value (Word 1)	8000
Trap Text and Variable Descriptions	<div> <div>Port VLAN, group or configuration change (slot 2, IF 8, type 4, instance 1)</div> <div> <div>Slot number. The slot number for the module that contains this port.</div> <div>Port number. The port number on this module that was changed.</div> <div> Port Type. The physical type of this port. The following integers are valid values: <ul style="list-style-type: none"> 1 Unknown 2 Other 3 Router 4 Bridge 5 Trunk 6 ATM trunk port 7 ATM LAN Emulation port 8 Classical IP 9 ATM MUX 203 Ethernet 10BASE-T 204 Ethernet 100BASE-T 205 Token Ring 4 mbs 206 Token Ring 16 mbs 207 FDDI 208 CDDI 209 ATM 25 mbs 210 ATM 50 mbs 211 DS-1 212 DS-3 213 OC-3 214 OC-12 215 OC-48 </div> <div>Physical Instance. The specific instance of this slot/port/type. In most cases this value will be 1 (only one instance of the port), but an ATM port may have multiple instances. Possible values range from 1 to 254.</div> </div> </div>

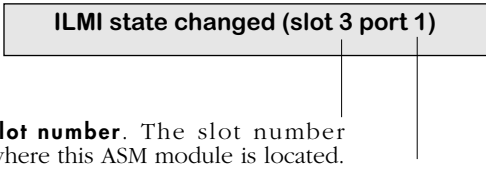
Trap	moduleResetReload																								
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.17																								
Description	The specified module has been either reset or reloaded. A reload may occur during a firmware download.																								
Bit Position (Word 1)	16																								
Hex Value (Word 1)	1 0000																								
Trap Text and Variable Descriptions	<p>Submodule Type. Indicates the submodule that was reset or reloaded. Typically this value will be 1, meaning the base module was reset or reloaded. If this value is 2, then HSM module 1 was affected. If this value is 3, then HSM module 2 was affected.</p> <p>.Slot number. The slot number of the module that was reset or reloaded.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> Module reset or reloaded by chassis manager (slot 4 subunit 1 type 6 status 3) </div> <p>Module Type. Indicates the module type that was reset or reloaded. The following integers are valid values:</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 50%;">4 HSM</td><td style="width: 50%;">13 ESM 12-port 10BASE-T</td></tr> <tr> <td>5 MPM</td><td>14 ESM 6-port universal module</td></tr> <tr> <td>6 ESM 8-port 10BASE-T</td><td>15 MPM version II</td></tr> <tr> <td>7 ESM 16-port</td><td>16 ATM DS-3</td></tr> <tr> <td>8 TSM 6-port UTP/STP</td><td>17 FSM FDDI single mode</td></tr> <tr> <td>9 FSM FDDI module</td><td>18 ASM .5 MB single mode</td></tr> <tr> <td>10 FSM CDDI module</td><td>19 ASM UTP</td></tr> <tr> <td>11 ESM 4-port</td><td>20 ESM 8-port fiber</td></tr> <tr> <td>12 ASM .5 MB multi-mode</td><td>21 ESM 12-port Telco</td></tr> <tr> <td></td><td>22 TSM fiber</td></tr> <tr> <td></td><td>23 ASM 2 MB multi-mode</td></tr> <tr> <td></td><td>24 ASM 2 MB single mode</td></tr> </tbody> </table> <p>Operational State. Indicates the current state of the module that was reset or reloaded. The following integers are valid values:</p> <ol style="list-style-type: none"> 1 Unknown state. The module may have failed low-level self-test. 2 Invalid. The module may exist, by the chassis does not have control of it. 3 Operational. The module is running fine with no errors. 4 Disabled. The module has been set to disable through the UI or SNMP. 5 Reset. The module has been reset. 6 Loading. The module is in the middle of loading. 7 Testing. The module is in self-test. 8 Warning. A warning was detected during operation. 9 Non-fatal error. A non-fatal error was detected during operation. 10 Fatal error. A fatal error occurred during operation. The module may or may not be functional. 	4 HSM	13 ESM 12-port 10BASE-T	5 MPM	14 ESM 6-port universal module	6 ESM 8-port 10BASE-T	15 MPM version II	7 ESM 16-port	16 ATM DS-3	8 TSM 6-port UTP/STP	17 FSM FDDI single mode	9 FSM FDDI module	18 ASM .5 MB single mode	10 FSM CDDI module	19 ASM UTP	11 ESM 4-port	20 ESM 8-port fiber	12 ASM .5 MB multi-mode	21 ESM 12-port Telco		22 TSM fiber		23 ASM 2 MB multi-mode		24 ASM 2 MB single mode
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Trap Type	systemEvent
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.18
Description	A potentially fatal error occurred in the system.
Bit Position (Word 1)	17
Hex Value (Word 1)	2 0000
Trap Text and Variable Descriptions	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px; text-align: center;"> Potentially fatal error occurred (trap 10) </div> <p>Event Trap Type. A number that identifies the specific error that occurred in the system. The following integers are valid values:</p> <ul style="list-style-type: none"> 10 Unspecified Log Event 11 Log file full 12 Log file erased 20 Unspecified memory event 21 Memory shortage 30 Unspecified CPU event 31 Long term CPU overload 32 Short term CPU overload 40 Unspecified ffs event 41 Attempt to write to full ffs 42 System/user directed purge 43 Removed imgs/cfgs 44 Exec file removed 45 Config file removed 46 Exec file updated 47 Config file updated 50 Unspecified chassis event 51 Module failed to init 52 Module failed to load 53 Module startup failed 54 Module failed 55 Driver failed

Trap Type	vlanRouteTableFull
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.19
Description	The IP or IPX route table is full.
Bit Position (Word 1)	18
Hex Value (Word 1)	4 0000
Trap Text and Variable Descriptions	IP or IPX route table is full on insertion.

Trap Type	sapTableFull
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.20
Description	The SAP table is full upon insertion.
Bit Position (Word 1)	19
Hex Value (Word 1)	8 0000
Trap Text and Variable Descriptions	SAP table full on insertion.

Trap Type	atmSSCOPstate
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.21
Description	A specified port changed.
Bit Position (Word 1)	20
Hex Value (Word 1)	10 0000
Trap Text and Variable Descriptions	<div style="text-align: center;">  <p>Slot number. The slot number where this ASM module is located.</p> <p>Port number. The port number on this ASM module where the signalling state has changed.</p> </div>

Trap Type	ilmiState
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.22
Description	The ILMI state for the specified port changed. This change of state indicates whether address registration was successful, and whether the switch knows the network prefix provided by the external ATM switch.
Bit Position (Word 1)	21
Hex Value (Word 1)	20 0000
Trap Text and Variable Descriptions	<div style="text-align: center;">  <p>Slot number. The slot number where this ASM module is located.</p> <p>Port number. The port number on this ASM module where the ILMI state has changed.</p> </div>

Trap Type	atmConnection
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.23
Description	The specified ATM VCC was created or deleted.
Bit Position (Word 1)	22
Hex Value (Word 1)	40 0000
Trap Text and Variable Descriptions	<div> <div>ATM VCC created or deleted (slot 3, port 1, Vpi 0, Vci 100, admin status 2)</div> <div> <div>Slot Number. The slot number where this ASM module is located.</div> <div>Port Number. The port number on the ASM module where this VCC was created or deleted.</div> <div>VPI Number. The virtual path identifier for this virtual connec-</div> <div>VCI Number. The virtual channel identifier for this virtual connection.</div> <div> Admin Status. Indicates the current status of this ATM VCC. The following integers are valid values: <div> <div>1 Disabled. This VCC was disabled.</div> <div>2 Enabled. This VCC was enabled.</div> <div>3 Deleted. This VCC was deleted.</div> </div> </div> </div> </div>

Trap Type	atmService
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.24
Description	The specified ATM service (Port-to-Port Bridging, Trunking, LAN Emulation, etc.) was created or deleted.
Bit Position (Word 1)	23
Hex Value (Word 1)	80 0000
Trap Text and Variable Descriptions	<div><div>ATM service created or deleted (slot 3, port 1, service 2, admin status 2)</div><div><div>Slot Number. The slot number where this ASM module is located.</div><div>Port Number. The port number on the ASM module where the service was created or deleted.</div><div>Service Number. The ATM service number assigned to this service when it was set up.</div><div>Admin Status. The current status of this ATM VCC. The following integers are valid values: 1 Disabled. This VCC has disabled. 2 Enabled. This VCC was enabled. 3 Deleted. This VCC was deleted.</div></div></div>

Trap Type	dlciNew
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.27
Description	Frame Relay DLCI was created.
Bit Position (Word 1)	26
Hex Value (Word 1)	400 0000
Trap Text and Variable Descriptions	<div style="text-align: center;"> <div style="border: 1px solid black; background-color: #f0f0f0; padding: 5px; margin: 10px auto; width: fit-content;"> Frame Relay DLCI created (slot 3 port 1 DLCI Number 100) </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>Slot number. The slot number where this Frame Relay module is located.</p> </div> <div style="text-align: center;"> <p>Port number. The port number on this Frame Relay module where the DLCI was created.</p> </div> <div style="text-align: center;"> <p>DLCI Number. The number of the DLCI that was created.</p> </div> </div> </div>

Trap Type	dlciDel
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.28
Description	Frame Relay DLCI was deleted.
Bit Position (Word 1)	27
Hex Value (Word 1)	800 0000
Trap Text and Variable Descriptions	<div><div>Frame Relay DLCI deleted (slot 3 port 1 DLCI Number 100)</div><div><div>Slot number. The slot number where this Frame Relay module is located.</div><div>Port number. The port number on this Frame Relay module where the DLCI was deleted.</div><div>DLCI number. The number of the DLCI that was just deleted.</div></div></div>

Trap Type	dlciUp
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.29
Description	Frame Relay DLCI changed to active state.
Bit Position (Word 1)	28
Hex Value (Word 1)	1000 0000
Trap Text and Variable Descriptions	<div> <div>Frame Relay DLCI Changed to Active (slot 3 port 1 DLCI Number 100)</div> <div> <div>Slot Number. The slot number where this Frame Relay module is located.</div> <div>Port Number. The port number on this Frame Relay module where the DLCI was activated.</div> <div>DLCI Number. The number of the DLCI that was just activated.</div> </div> </div>

Trap Type	dlciDn
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.30
Description	Frame Relay DLCI changed to inactive state.
Bit Position (Word 1)	29
Hex Value (Word 1)	2000 0000
Trap Text and Variable Descriptions	<div>Frame Relay DLCI Changed to Inactive (slot 3 port 1 DLCI Number 100)</div> <p>Slot Number. The slot number where this Frame Relay module is located.</p> <p>Port Number. The port number on this Frame Relay module where the DLCI was de-activated.</p> <p>DLCI Number. The number of the DLCI that was just de-activated.</p>

Trap Type	portManualForwardingMode
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.31
Description	The specified port was placed into manual mode forwarding as its default setting.
Bit Position (Word 1)	30
Hex Value (Word 1)	4000 0000
Trap Text and Variable Descriptions	<div> <div> <p>Slot Number. The slot number where this port is located.</p> </div> <div> <p>Port number. The port number on the module.</p> </div> </div> <div> <div> <div>Port placed into manual mode forwarding (slot 3, port 1, type 1, instance 1)</div> </div> <div> <p>Port Type. The physical type of this port. The following integers are valid values:</p> <ul style="list-style-type: none"> 1 Unknown 2 Other 3 Router 4 Bridge 5 Trunk 6 ATM trunk port 7 ATM LAN Emulation port 8 Classical IP 9 ATM MUX 203 Ethernet 10BASE-T 204 Ethernet 100BASE-T 205 Token Ring 4 mbs 206 Token Ring 16 mbs 207 FDDI 208 CDDI 209 ATM 25 mbs 210 ATM 50 mbs 211 DS-1 212 DS-3 213 OC-3 214 OC-12 215 OC-48 </div> <div> <p>Physical Instance. The specific instance of this slot/port/type. In most cases this value will be 1 (only one instance of the port), but an ATM port may have multiple instances. Possible values range from 1 to 254.</p> </div> </div>

Trap Type	fddiCFStateChange																										
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.32																										
Description	The specified FDDI physical port changed from wrap configuration state.																										
Bit Position (Word 1)	31																										
Hex Value (Word 1)	8000 0000																										
Trap Text and Variable Descriptions	<div>FDDI physical port changes from wrap configuration state (index 1, state 2)</div> <p>SMT Index. A unique value for each SMT (Station Management Station). The value for each SMT must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization.</p> <p>SMT State. The attachment configuration for the station or concentrator. The following integers are valid values:</p> <table><tr><td>1</td><td>isolated</td></tr><tr><td>2</td><td>local_a</td></tr><tr><td>3</td><td>local_b</td></tr><tr><td>4</td><td>local_ab</td></tr><tr><td>5</td><td>local_s</td></tr><tr><td>6</td><td>wrap_a</td></tr><tr><td>7</td><td>wrap_b</td></tr><tr><td>8</td><td>wrap_ab</td></tr><tr><td>9</td><td>wrap_s</td></tr><tr><td>10</td><td>c_wrap_a</td></tr><tr><td>11</td><td>c_wrap_b</td></tr><tr><td>12</td><td>c_wrap_s</td></tr><tr><td>13</td><td>thru</td></tr></table>	1	isolated	2	local_a	3	local_b	4	local_ab	5	local_s	6	wrap_a	7	wrap_b	8	wrap_ab	9	wrap_s	10	c_wrap_a	11	c_wrap_b	12	c_wrap_s	13	thru
1	isolated																										
2	local_a																										
3	local_b																										
4	local_ab																										
5	local_s																										
6	wrap_a																										
7	wrap_b																										
8	wrap_ab																										
9	wrap_s																										
10	c_wrap_a																										
11	c_wrap_b																										
12	c_wrap_s																										
13	thru																										

Trap Type	duplicateIPaddress		
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.35		
Description	The switch detected a duplicate IP address.		
Bit Position (Word 2)	2		
Hex Value (Word 2)	4		
Trap Text and Variable Descriptions	<div><div><div><div><div>IP Address. The IP address of the station that reported the duplicate IP address.</div></div><div><div>MAC Address. The MAC address of the station that reported the duplicate IP address.</div></div></div></div></div>		
	<div><div><div><div><div>Duplicate IP address detected (IP addr 192.168.10.1, Mac 0036589adf01, slot 3, IF 4, dup Mac 00145221cd02, dup slot 1, dup IF 3)</div></div></div></div></div>		
	<div><div><div><div><div>Port Number. The port on the module of the reporting station from which the trap was sent.</div></div><div><div>Duplicate Slot. The slot number on the reporting station where the duplicate address was discovered.</div></div><div><div>Duplicate Port. The port on the module of the reporting station where the duplicate address was discovered.</div></div></div></div></div>		
	<div><div><div><div><div>Slot Number. The slot number of the reporting station from which the trap was sent.</div></div><div><div>Duplicate MAC. The MAC address associated with the duplicated IP address.</div></div></div></div></div>		

Trap Type	duplicateMACaddress
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.36
Description	The switch detected a duplicate MAC address of one of its own router ports.
Bit Position (Word 2)	3
Hex Value (Word 2)	8
Trap Text and Variable Descriptions	<div><div>Duplicate MAC address detected (Mac 00145221cd02, slot 2, IF 3, time 4</div><div><div>MAC Address. The router port's MAC address for which the last duplicate MAC address was detected.</div><div>Slot. The slot number where the duplicate MAC address was last received.</div><div>Interface. The interface number where the duplicate MAC address was last received.</div><div>Time. The time, in seconds, when the duplicate MAC was detected.</div></div></div>

<i>Trap Type</i>	healthThresholdRising
<i>Object ID</i>	1.3.6.1.4.1.800.3.1.1.4.0.37
<i>Description</i>	At least one of the user-specified thresholds was exceeded.
<i>Bit Position (Word 2)</i>	4
<i>Hex Value (Word 2)</i>	10
<i>Trap Text and Variable Descriptions</i>	Thresh-hold rising trap

<i>Trap Type</i>	healthThresholdFalling
<i>Object ID</i>	1.3.6.1.4.1.800.3.1.1.4.0.38
<i>Description</i>	At least one of the user-specified thresholds was exceeded during the previous cycle and none of them are exceeded in the current cycle.
<i>Bit Position (Word 2)</i>	5
<i>Hex Value (Word 2)</i>	20
<i>Trap Text and Variable Descriptions</i>	Thresh-hold falling trap

Trap Type	healthThresholdDevice
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.39
Description	At least one of the device-level threshold crossing was detected.
Bit Position (Word 2)	6
Hex Value (Word 2)	40
Trap Text and Variable Descriptions	<div> <p>Device-level threshold crossing is detected (Data 0a 09 0d 53 00 00 00 00 00 00 00 00 00 00 00)</p> <p>Data. An octet string that represents the contents of device-level rising/falling threshold trap.</p> </div>

Trap Type	healthThresholdModule
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.40
Description	At least one module-level threshold crossing was detected.
Bit Position (Word 2)	7
Hex Value (Word 2)	80
Trap Text and Variable Descriptions	<div> <p>Module-level threshold crossing is detected (count 2, data 0a 09 0d 53 00 00 00 00 00 00 00 00 00 00 00))</p> <p>Count. The number of modules with threshold crossing data in module-level rising/falling threshold traps.</p> <p>Data. An octet string that represents the contents of device-level rising/falling threshold trap.</p> </div>

Trap Type	xylanXIPXMAPPortStatusChange
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.41
Description	An XMAP turned on or off.
Bit Position (Word 2)	8
Hex Value (Word 2)	100
Trap Text and Variable Descriptions	<div> <p>The status of an XMAP-tracked virtual port has changed (port 1, reason 2)</p> <p>Port Number. The virtual port number of the port that most recently changed.</p> <p>Reason. The reason for the last port status change. The following integers are valid values:</p> <ul style="list-style-type: none"> 0 No trap was sent. 1 A port was added. 2 A change of information on an existing port. 3 A port was deleted. </div>

Trap Type	xylanXIPXMAPPortStateChange
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.42
Description	An XMAP turned on or off.
Bit Position (Word 2)	9
Hex Value (Word 2)	200
Trap Text and Variable Descriptions	<div data-bbox="412 659 1313 732" data-label="Text"> <p>The state of the XMAP agent has changed to (state 1)</p> </div> <div data-bbox="885 762 1206 842" data-label="Text"> <p>Operating State. The XMAP's operating state. The following integers are valid values:</p> </div> <div data-bbox="885 842 1047 898" data-label="List-Group"> <ul style="list-style-type: none"> 1 inactive 2 active </div>

Trap Type	avlAuthAttempt
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.43
Description	Indicates the last authenticated VLAN attempt.
Bit Position (Word 2)	16
Hex Value (Word 2)	1 0000
Trap Text and Variable Descriptions	<p>User. The last user who made an authentication attempt.</p> <p>The last VLAN authentication attempt was: (user 1, event 2, MAC 0036589adf01, port 4, slot 5)</p> <p>MAC Address. The last MAC address to make an authentication attempt.</p> <p>Port. The last port number from which the authentication attempt originated.</p> <p>Event Type. The last authorization attempt type. The following integers are valid values:</p> <ul style="list-style-type: none"> 1 Successful login 2 Failed Login Attempt 3 Logout/Drop <p>Slot. The last slot number from which the authentication attempt originated.</p>

Trap Type	xylanXIPGMAPFailedUpdate
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.44
Description	GMAP is unable to update the forwarding database to reflect information in its internal database.
Bit Position (Word 2)	11
Hex Value (Word 2)	800
Trap Text and Variable Descriptions	<p>Reason. The reason for the last GMAP update was not applied. The following integers are valid values:</p> <ol style="list-style-type: none"> 1 The target group is an authenticated group. 2 The update would conflict with a binding rule. 3 The update would create two different group entries for the same protocol. 4 The update would create two different protocol entries for the same group. 5) The target group is not mobile. <div style="border: 1px solid black; padding: 5px; margin: 10px 0; text-align: center;"> GMAP is unable to update the forwarding database (reason 1, port 2, Mac 0036589adf01, protocol 4, group 5) </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>MAC Address. The last MAC address for which a GMAP change was not applied.</p> </div> <div style="width: 30%;"> <p>Group. The group identifier of the last GMAP change that was not applied.</p> </div> <div style="width: 30%;"> <p>Port. The virtual port number of the last port on which the GMAP change was not applied.</p> </div> </div> <div style="margin-top: 20px;"> <p>Protocol. The protocol identifier of the last GMAP change that was not applied.</p> </div>

Trap Type	clkBusLineStateChange
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.45
Description	Either the bus line's status changed (active or inactive) or clock switching occurred.
Bit Position (Word 2)	10
Hex Value (Word 2)	400
Trap Text and Variable Descriptions	<div><div>Bus Line's status changed (bus line 1, operating state 1) or clock switching has occurred.</div><div><div>Bus Line. The specific bus line where the status change occurred. The following integers are valid values: 1 8 khz 2 19 mhz</div><div>Operating State. The bus line's operating state. The following integers are valid values: 1 inactive 2 active</div></div></div>

Trap Type	bind-violation
Object ID	1.3.6.1.4.1.800.3.1.1.1.0.46
Description	A configured binding rule was violated.
Bit Position (Word 2)	23
Hex Value (Word 2)	80 0000
Trap Text and Variable Descriptions	<div><p>IP Address. The IP address for which this binding is configured.</p><p>VLAN ID. The VLAN ID for which this rule is configured.</p><p>Group ID. The group ID of the VLAN for which this rule is configured.</p><p>A binding rule has been violated (groupId 1, vlanId 2, IP 192.168.10.1 3, Mac 0036589adf01, protocol 5, port 6, rule 4, index 8)</p><p>Protocol. The protocol for which this binding is configured.</p><p>Port. The port for which this binding is configured.</p><p>MAC Address. The MAC address for which this binding is configured.</p><p>Rule Index. The index which uniquely defines the rule for this VLAN.</p><p>Rule. The rule for which this binding is configured.</p></div>

Trap Type	mpcStatisticsOverflow
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.47
Description	An entry in the mpcStatisticsTable reached the threshold value.
Bit Position (Word 2)	18
Hex Value (Word 2)	4 0000
Trap Text and Variable Descriptions	<div><div>MPC: Statistics threshold value reached (MpcIndex, Insufficient resources replies.)</div><div><div>MPC Index. A unique number that identifies a conceptual row in the mpcConfig-Table.</div><div>Insufficient resources replies. The reply from the MPC Statistics Table came back as insufficient resources.</div></div></div>

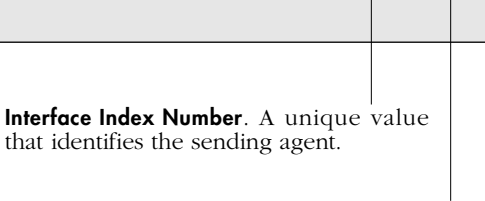
Trap Type	fddiLerFlagChange				
Object ID	1.3.6.1.4.1.800.3.1.1.1.0.65				
Description	The LER (Link Error Rate) flag on a port changed from CLEAR to SET.				
Bit Position (Word 3)	0				
Hex Value (Word 3)	1				
Trap Text and Variable Descriptions	<div style="border: 1px solid black; background-color: #f0f0f0; padding: 5px; margin-bottom: 10px;"> FDDI: Link Error Rate on a port is set (SMTIndex 1, port 2, LerFlag 3) </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%; border-right: 1px solid black; padding-right: 10px;"> <p>SMT Index. A unique value for each SMT (Station Management). The value for each SMT must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization.</p> </div> <div style="width: 30%; border-right: 1px solid black; padding-right: 10px;"> <p>Port index. A unique value for each port with in a given SMT, which is the same as the corresponding resource index in SMT. The value for each port must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization.</p> </div> <div style="width: 30%; padding-left: 10px;"> <p>LER Flag. The condition becomes active when the value of the fddiPRTLerEstimate is less than or equal to fddimibPORTLerEstimate. The following integers are valid values:</p> <table style="margin-left: 20px;"> <tr> <td>1</td><td>True</td></tr> <tr> <td>2</td><td>False</td></tr> </table> </div> </div>	1	True	2	False
1	True				
2	False				

Trap Type	fddiLCTFailCntIncr
Object ID	1.3.6.1.4.1.800.3.1.1.1.0.66
Description	The LCT (Link Confidence Test) flag on a port incremented.
Bit Position (Word 3)	1
Hex Value (Word 3)	2
Trap Text and Variable Descriptions	<div data-bbox="418 642 1230 726"> Fddi: Link Confidence Test flag on a port incremented (SMTIndex 1, port index 2, failure counts 3) </div> <div data-bbox="386 819 732 1035"> <p>Port Index . A unique value for each port within a given SMT, which is the same as the corresponding resource index in SMT. The value for each port must remain constant at least from one re-initialization of the entity's network management system to the next re-initialization.</p> </div> <div data-bbox="951 795 1266 963"> <p>SMT Index. A unique value for each SMT. The value for each SMT must remain constant at least from one re-unitization of the entity's network management system to the next re-initialization.</p> </div> <div data-bbox="714 1106 920 1276"> <p>Failure Counts. The count of the consecutive times the link confidence test (LCT) failed during connection management.</p> </div>

Trap Type	mpcStatisticsOverflow
Object ID	1.3.6.1.4.1.800.3.1.1.1.0.67
Description	The statisticsNum value of the mpcStatisticsTable reached the threshold value.
Bit Position (Word 2)	18
Hex Value (Word 2)	4 0000
Variables	mpcIndex mpcStatRxMpoaResolveReplyInsufECResources
Trap Text and Variable Descriptions	<div><p>GMAP is unable to update the forwarding database (index 1, MPOA replies 3)</p><p>MPC Index. A unique number that identifies a conceptual row in the mpcConfigTable.</p><p>MPOA Resolution Replies. The number of MPOA Resolution Replies received with an MPOA CIE Code of 0x81.</p></div>

Trap Type	mpcShortCut
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.68
Description	The established shortcut path either closed or failed to complete the path.
Bit Position (Word 2)	19
Hex Value (Word 2)	8 0000
Variables	mpcRowStatus lecControlDirectVci mpcFlowDetectProtocol mpcIngressCacheDestAddr, mpcIngressCacheDestAtmAddr mpcIndex mpcMpsIndex
Trap Text and Variable Descriptions	<p>Row Status. This object allows creation and deletion of MPOA clients.</p> <div> <p>GMAP is unable to update the forwarding database (rowStatus 1, control direct Vci 2, protocol 4, dest addr 192.168.40.12, dest ATM addr 3903488001bc900001020000090020da00000900, index 1, mps index 2)</p> </div> <p>Control Direct VCI. The VCI that identifies the VCC at the point where it connects to a LANE client. If the Control Direct VCC does not exist, this value is zero.</p> <p>Destination ATM Address. The destination ATM address received in the MPOA Resolution Reply.</p> <p>Protocol. The protocol on which flow detection is performed.</p> <p>Destination Address. The destination internet-work layer address.</p> <p>MPC Index. A unique number that identifies a conceptual row in the mpcConfig-Table.</p> <p>MPC MPS Index. The MPS's index that is used to identify a row in the mpcConig Table.</p>

Trap Type	mpcIngressRetryTimeOut
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.69
Description	The retry time exceeded the MPC-p5 time.
Bit Position (Word 2)	20
Hex Value (Word 2)	10 0000
Variables	mpcIndex mpcRetryTimeMaximum mpcIngressCacheDestAddr mpcIngressCacheDestAtmAddr mpcFlowDetectProtocol mpcMpsIndex
Trap Text and Variable Descriptions	<div> <div> MPC Index. A unique number that identifies a conceptual row in the mpcConfig-Table. </div> <div> Maximum Retry Time. The MPC-p5 cumulative maximum value for retry time. </div> </div> <div> GMAP is unable to update the forwarding database (index 1, max time 5, dest addr 192.168.40.12, ATM addr 3903488001bc900001020000090020da00000900, protocol 1) </div> <div> Destination Address. The destination internet-network layer address. </div> <div> Destination ATM Address. The destination ATM address received in the MPOA Resolution Reply. </div> <div> Detect Protocol. The protocol on which flow detection is performed. </div>

Trap Type	vrrpTrapNewMaster
Object ID	1.3.6.1.2.1.46.1.3.1.0.3
Description	The sending agent has transitioned from “Backup” state to “Master” state.
Bit Position (Word 2)	21
Hex Value (Word 2)	20 0000
Trap Text and Variable Descriptions	<div data-bbox="404 636 1265 720" style="border: 1px solid black; background-color: #f0f0f0; padding: 5px; margin-bottom: 10px;"> Agent has transitioned from Backup to Master state (If index 1, vrid 2) </div> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Interface Index Number. A unique value that identifies the sending agent.</p> </div> <div style="text-align: center;"> <p>Virtual Router ID. The number that identifies the virtual router on this VRRP. Possible values range from 1 to 255.</p> </div> </div>

Trap Type	vrrpAuthFailure
Object ID	1.3.6.1.2.1.46.1.3.1.0.4
Description	A packet was received from a router whose authentication key or authentication type conflicts with this router's authentication key or type.
Bit Position (Word 2)	22
Hex Value (Word 2)	40 0000
Trap Text and Variable Descriptions	<div><p>A packet with a wrong authentication key or type is received (If index 1, vrid 2, source 192.168.10.1, error type 3)</p><div><div><div>Virtual Router ID. The number that identifies the virtual router on this VRRP. Possible values range from 1 to 255.</div><div>Packet Source IP. The IP address of an inbound VRRP packet.</div><div>Error Type. The type of configuration conflict. The following integers are valid values: 1 Invalid authentication type 2 Mismatched authentication 3 Authentication Failure</div><div>Interface Index Number. A unique value that identifies the sending agent.</div></div></div></div>

Trap Type	oamVCAIS
Object ID	1.3.6.1.4.1.800.3.1.1.1.0.71
Description	The specified connection is in the VC-AIS state.
Bit Position (Word 3)	10
Hex Value (Word 3)	400
Variables	xylanOamF5VCSlotIndex xylanOamF5VCPortIndex xylanOamF5VCVpiIndex xylanOamF5VCVciIndex
Trap Text and Variable Descriptions	<div> <div>The specified connection is in VC-AIS state. (Slot 1, Port 2, VPI 2, VCI 1)</div> <div> <div>Slot Number. The slot number for the specified connection.</div> <div>Port Number. The port number for the specified connection.</div> <div>VPI. The virtual path identifier for the specified connection.</div> <div>VCI. The virtual circuit identifier for the specified connection.</div> </div> </div>

Trap Type	oamVCRDI
Object ID	1.3.6.1.4.1.800.3.1.1.1.0.72
Description	The specified connection is in the VC-RDI state.
Bit Position (Word 3)	11
Hex Value (Word 3)	800
Variables	xylanOamF5VCSlotIndex xylanOamF5VCPortIndex xylanOamF5VCVpiIndex xylanOamF5VCVciIndex
Trap Text and Variable Descriptions	<div><p>The specified connection is in VC-RDI state. (Slot 1, Port 2, VPI 2, VCI 1)</p><p>Slot Number. The slot number for the specified connection.</p><p>Port Number. The port number for the specified connection.</p><p>VPI. The virtual path identifier for the specified connection.</p><p>VCI. The virtual circuit identifier for the specified connection.</p></div>

Trap Type	oamVCLOC
Object ID	1.3.6.1.4.1.800.3.1.1.1.0.73
Description	The specified connection is in the VC-LOC state.
Bit Position (Word 3)	12
Hex Value (Word 3)	1000
Variables	xylanOamF5VCSlotIndex xylanOamF5VCPortIndex xylanOamF5VCVpiIndex xylanOamF5VCVciIndex
Trap Text and Variable Descriptions	<div>The specified connection is in VC-LOC state. (Slot 1, Port 2, VPI 2, VCI 1)</div> <div>Slot Number. The slot number for the specified connection.</div> <div>Port Number. The port number for the specified connection.</div> <div>VPI. The virtual path identifier for the specified connection.</div> <div>VCI. The virtual circuit identifier for the specified connection.</div>

Trap Type	oamVCUnsuccessLoop
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.74
Description	The specified connection is in the Unsuccessful Loopback state.
Bit Position (Word 3)	13
Hex Value (Word 3)	2000
Variables	xylanOamF5VCSlotIndex xylanOamF5VCPortIndex xylanOamF5VCVpiIndex xylanOamF5VCVciIndex
Trap Text and Variable Descriptions	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> The specified connection is in VC-UnsuccessLoop state. (Slot 1, Port 2, VPI 2, VCI 1) </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> VPI. The virtual path identifier for the specified connection. </div> <div style="text-align: center;"> VCI. The virtual circuit identifier for the specified connection. </div> <div style="text-align: center;"> Slot Number. The slot number for the specified connection. </div> <div style="text-align: center;"> Port Number. The port number for the specified connection. </div> </div>

Trap Type	oamVPAIS
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.75
Description	The specified VP connection is in the VP-AIS state.
Bit Position (Word 3)	14
Hex Value (Word 3)	4000
Variables	xylanOamF5VCSlotIndex xylanOamF5VCPortIndex xylanOamF5VCVpiIndex
Trap Text and Variable Descriptions	<div><div>The specified connection is in VP-AIS state. (Slot 1, Port 2, VPI 2, VCI 1)</div><div><div>Slot Number. The slot number for the specified connection.</div><div>Port Number. The port number for the specified connection.</div><div>VPI. The virtual path identifier for the specified connection.</div><div>VCI. The virtual circuit identifier for the specified connection.</div></div></div>

Trap Type	oamVPRDI
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.76
Description	The specified VP connection is in the VP-RDI state.
Bit Position (Word 3)	15
Hex Value (Word 3)	8000
Variables	xylanOamF5VCSlotIndex xylanOamF5VCPortIndex xylanOamF5VCVpiIndex
Trap Text and Variable Descriptions	<div><p>The specified connection is in VP-LOC state. (Slot 1, Port 2, VPI 2, VCI 1)</p><p>Slot Number. The slot number for the specified connection.</p><p>Port Number. The port number for the specified connection.</p><p>VPI. The virtual path identifier for the specified connection.</p><p>VCI. The virtual circuit identifier for the specified connection.</p></div>

Trap Type	oamVPLOC
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.77
Description	The specified VP connection is in the VP-LOC state.
Bit Position (Word 3)	16
Hex Value (Word 3)	1 0000
Variables	xylanOamF5VCSlotIndex xylanOamF5VCPortIndex xylanOamF5VCVpiIndex
Trap Text and Variable Descriptions	<div>The specified connection is in VPUnsuccessLoop state. (Slot 1, Port 2, VPI 2, VCI 1)</div> <div><div>Slot Number. The slot number for the specified connection.</div><div>Port Number. The port number for the specified connection.</div><div>VPI. The virtual path identifier for the specified connection.</div><div>VCI. The virtual circuit identifier for the specified connection.</div></div>

Trap Type	oamVPUnsuccessLoop
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.78
Description	The specified VP connection is in the unsuccessful loopback state.
Bit Position (Word 3)	17
Hex Value (Word 3)	2 0000
Variables	xylanOamF5VCSlotIndex xylanOamF5VCPortIndex xylanOamF5VCVpiIndex
Trap Text and Variable Descriptions	<div><p>The specified connection is in VP-RDI state. (Slot 1, Port 2, VPI 2, VCI 1)</p><p>Slot Number. The slot number for the specified connection.</p><p>Port Number. The port number for the specified connection.</p><p>VPI. The virtual path identifier for the specified connection.</p><p>VCI. The virtual circuit identifier for the specified connection.</p></div>

Trap	accountEvent
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.86
Description	An account event is generated to signal that a new accounting file is available on the switch
Bit Position (Word 3)	21
Hex Value (Word 3)	20 0000
Variable Description	chasAccountName - Path name of the most recently terminated accounting file. chasAccountFileCount - The number of terminated accounting files awaiting collection and removal by an external accounting collection agent.

Trap	Over1Alarm
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.87
Description	This alarm is generated when the filling level exceeds the first threshold. It signals that the switch changes over to the alternate collection device.
Bit Position (Word 3)	22
Hex Value (Word 3)	40 0000
Variable Description	chasAccountFilingLevel - The amount of buffer taken up by accounting data. Value shown as a percentage of the buffer size. chasAccountThreshold1 - The first filling level of the intermediate storage area for accounting data. Crossing this threshold generates a warning. Value shown as a percentage of the buffer size. chasAccountDeviceInUse - The IP address of the collection device with which a TCP connection was most recently established.

Trap Type	Under1Event
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.88
Description	This event is generated when the filling level goes below the first threshold. This event is for information only.
Bit Position (Word 3)	23
Hex Value (Word 3)	80 0000
Variable Description	<p>chasAccountFilingLevel - The amount of buffer taken up by accounting data. Value shown as a percentage of the buffer size.</p> <p>chasAccountThreshold1 - The first filling level of the intermediate storage area for accounting data. Crossing this threshold generates a warning. Value shown as a percentage of the buffer size.</p>

Trap	Over2Alarm
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.89
Description	This alarm is generated when the filling level exceeds the second threshold. It signals that the switch changes over to the alternate collection device.
Bit Position (Word 3)	24
Hex Value (Word 3)	100 0000
Variable Description	<p>chasAccountFilingLevel - The amount of buffer taken up by accounting data. Value shown as a percentage of the buffer size.</p> <p>chasAccountThreshold2 - The second filling level of the intermediate storage area for accounting data. Crossing this threshold generates a warning. Value shown as a percentage of the buffer size.</p> <p>chasAccountDeviceInUse - The IP address of the collection device with which a TCP connection was most recently established.</p>

Trap	Under2Event
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.90
Description	This event is generated when the filling level is lowered below the second threshold.
Bit Position (Word 3)	25
Hex Value (Word 3)	200 0000
Variable Description	<p>chasAccountFilingLevel - The amount of buffer taken up by accounting data. Value shown as a percentage of the buffer size.</p> <p>chasAccountThreshold2 - The second filling level of the intermediate storage area for accounting data. Crossing this threshold generates a warning. Value shown as a percentage of the buffer size.</p>

Trap	Over3Alarm
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.91
Description	This event is generated when the filling level exceeds the third threshold. It signals that the switch is now in congestion.
Bit Position (Word 3)	26
Hex Value (Word 3)	400 0000
Variable Description	<p>chasAccountFilingLevel - The amount of buffer taken up by accounting data. Value shown as a percentage of the buffer size.</p> <p>chasAccountThreshold3 - The third filling level of the intermediate storage area for accounting data. Crossing this threshold generates a warning. Value shown as a percentage of the buffer size.</p> <p>chasAccountDeviceInUse - The IP address of the collection device with which a TCP connection was most recently established.</p>

Trap	Under3Event
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.92
Description	This event is generated when the filling level goes below the third threshold.
Bit Position (Word 3)	27
Hex Value (Word 3)	8000 0000
Variable Description	chasAccountFilingLevel - The amount of buffer taken up by accounting data. Value shown as a percentage of the buffer size. chasAccountThreshold3 - The third filling level of the intermediate storage area for accounting data. Crossing this threshold generates a warning. Value shown as a percentage of the buffer size.

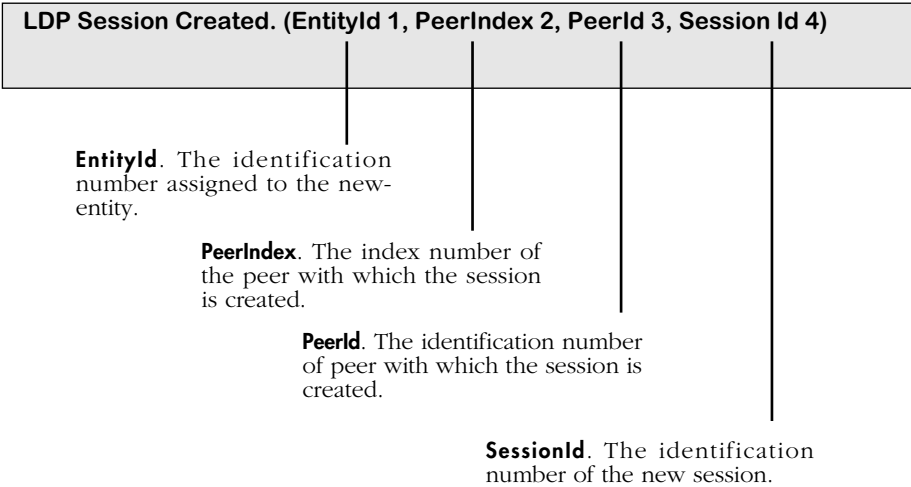
Trap Type	NoDeviceAlarm
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.93
Description	This alarm is generated when the TCP connection establishment fails with both the primary and the secondary collection devices.
Bit Position (Word 3)	28
Hex Value (Word 3)	1000 0000
Variable Description	chasAccountDevicePrimary - The IP address of the primary collection device. chasAccountDeviceSecondary - The IP address of the secondary collection device.

Trap	FileAlarm
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.94
Description	This alarm is generated when too many files are awaiting collection.
Bit Position (Word 3)	29
Hex Value (Word 3)	2000 0000
Variable Description	chasAccountFileCount - The number of terminated accounting files awaiting collection and removal by an external accounting collection agent.

Trap Type	fantrayEvent
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.1
Description	A fantrayEvent trap occurs when a problem condition is recognized on a chassis fan tray.
Bit Position (Word 3)	30
Hex Value (Word 3)	4000 0000
Variable Description	fantray1State - Status of fan tray 1. chasAccountDeviceSecondary - Status of fan tray 2.

Trap Type	ldpPeerCreate
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.80
Description	A LDP peer is identified by the LDP hello mechanism and a peer entry is created.
Bit Position (Word 3)	5
Hex Value (Word 3)	20
Variables	mplsLdpEntityID mplsLpdPeerIndex mplsLdpPeerID
Trap Text and Variable Descriptions	<div><p>Peer Entity is Created. (EntityId 1, PeerIndex 2, PeerId 3)</p><p>EntityId. The identification number assigned to the new entity.</p><p>PeerIndex. The index number assigned to the peer.</p><p>PeerId. The identification number assigned to the peer.</p></div>

Trap Type	ldpPeerDelete
Object ID	1.3.6.1.4.1.800.3.1.1.1.0.81
Description	An LDP peer is lost and the peer entry is deleted.
Bit Position (Word 3)	6
Hex Value (Word 3)	40
Variables	mplsLdpEntityID mplsLpdPeerIndex mplsLdpPeerID
Trap Text and Variable Descriptions	<div> <div>Peer Entity is Deleted. (EntityId 1, PeerIndex 2, PeerId 3)</div> <div> <div>EntityId. The identification number of the deleted entity.</div> <div>PeerIndex. The index number of the deleted peer.</div> <div>PeerId. The identification number of the deleted peer.</div> </div> </div>

Trap Type	ldpSessionCreate
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.82
Description	An LDP session with the peer is established and a session entry is created.
Bit Position (Word 3)	17
Hex Value (Word 3)	80
Variables	mplsLdpEntityID mplsLpdPeerIndex mplsLdpPeerID mplsLdpSessionIndex
Trap Text and Variable Descriptions	<div><p>LDP Session Created. (EntityId 1, PeerIndex 2, PeerId 3, Session Id 4)</p><p>EntityId. The identification number assigned to the new-entity.</p><p>PeerIndex. The index number of the peer with which the session is created.</p><p>PeerId. The identification number of peer with which the session is created.</p><p>SessionId. The identification number of the new session.</p></div>

Trap Type	ldpSessionDelete
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.83
Description	An LDP session with the peer is lost and the session entry is deleted.
Bit Position (Word 3)	8
Hex Value (Word 3)	100
Variables	mplsLdpEntityID mplsLdpPeerIndex mplsLdpPeerID mplsLdpSessionIndex
Trap Text and Variable Descriptions	<div style="border: 1px solid black; background-color: #f0f0f0; padding: 5px; margin-bottom: 10px;"> LDP Session Deleted. (EntityId 1, PeerIndex 2, PeerId 3, Session Id 4) </div> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <div style="width: 20px; height: 100px; background-color: black; margin: 0 auto;"></div> <p>EntityId. The identification number of the deleted entity.</p> </div> <div style="text-align: center;"> <div style="width: 20px; height: 100px; background-color: black; margin: 0 auto;"></div> <p>PeerIndex. The index number of the peer with whom the session entry was lost.</p> </div> <div style="text-align: center;"> <div style="width: 20px; height: 100px; background-color: black; margin: 0 auto;"></div> <p>PeerId. The identification number of the peer with whom the session entry was lost.</p> </div> <div style="text-align: center;"> <div style="width: 20px; height: 100px; background-color: black; margin: 0 auto;"></div> <p>SessionId. The identification number of the deleted session.</p> </div> </div>

Trap Type	lecStateChangeEvent
Object ID	1.3.6.1.4.1.800.3.1.1.4.0.96
Description	A trap message is sent to a network manager when a LEC status changes.
Bit Position (Word 2)	26
Hex Value (Word 3)	40 00000
Variables	lecID lecActualLanName lecAtmAddress, xylanLecSlotNumber xylanLecPortNumber xylanLecServiceNumber lecInterfaceState xylanReasonOfChange

Trap Text and Variable Descriptions	ELAN Name. The name of the ELAN whose status changed to generate this trap.	Service Instance. The specific instance of this service. In most cases this value will be 1 but an ATM port may have multiple instances	LEC Status Change (ELAN Name, Service Instance, New state, previous state).	New State. The new, current status of the LEC that changed to generate this trap. Displayed as an integer as shown below in the State List.	Previous State. The previous status of the LEC that changed to generate this trap. Displayed as an integer as shown below in the State List.
<p>State List</p> <ol style="list-style-type: none"> 1. none 2. timeout 3. undefined error 4. version not supported 5. invalid request parameters 6. duplicate LAN destination 7. duplicate ATM address 8. insufficient resources 9. access denied 10. invalid requester id 11. invalid LAN destination 12. invalid ATM address 13. no configuration 14. leconfigureError 15. insufficient information 					