

Chapter 7

Juniper Networks Enterprise-Specific SNMP Traps

This chapter summarizes the enterprise-specific SNMP traps supported by the JUNOS software. For scalability reasons, the MPLS traps are generated by the ingress router only. For information on disabling the generation of MPLS traps, see the *JUNOS Internet Software Configuration Guide: MPLS Applications*.

The JUNOS software supports the following enterprise-specific traps:

Juniper Networks Enterprise-Specific SNMP Version 1 Traps on page 59

Juniper Networks Enterprise-Specific SNMP Version 2 Traps on page 67

Juniper Networks Enterprise-Specific SNMP Version 1 Traps

The JUNOS software supports enterprise-specific version 1 traps shown in Table 7. The traps are organized first by trap category and then by trap name. The system logging severity levels are listed for those traps that have them. For traps that do not have corresponding system logging severity levels, the cell in the table is marked with an em-dash (—).

For more information about system log messages, see the *JUNOS Internet Software System Log Messages Reference*. For more information about configuring system logging, see the *JUNOS Internet Software Configuration Guide: Getting Started*.

Table 7: Enterprise-Specific Supported SNMP Version 1 Traps

Trap Category	Trap Name	Enterprise ID	Generic Trap Number	Specific Trap Number	System Logging Severity Level	System Log Tag
chassis	jnxFanFailure	1.3.6.1.4.1.2636.4.1	6	2	critical	CHASSISD_SNMP_TRAP
chassis	jnxFanOK	1.3.6.1.4.1.2636.4.2	6	2	critical	CHASSISD_SNMP_TRAP
chassis	jnxFruInsertion	1.3.6.1.4.1.2636.4.1	6	6	notice	CHASSISD_SNMP_TRAP
chassis	jnxFruPowerOff	1.3.6.1.4.1.2636.4.1	6	7	notice	CHASSISD_SNMP_TRAP
chassis	jnxFruPowerOn	1.3.6.1.4.1.2636.4.1	6	8	notice	CHASSISD_SNMP_TRAP
chassis	jnxFruRemoval	1.3.6.1.4.1.2636.4.1	6	5	notice	CHASSISD_SNMP_TRAP
chassis	jnxOverTemperature	1.3.6.1.4.1.2636.4.1	6	3	alert	CHASSISD_SNMP_TRAP
chassis	jnxPowerSupplyFailure	1.3.6.1.4.1.2636.4.1	6	1	warning	CHASSISD_SNMP_TRAP
chassis	jnxPowerSupplyOk	1.3.6.1.4.1.2636.4.2	6	1	critical	CHASSISD_SNMP_TRAP
chassis	jnxRedundancySwitchOver	1.3.6.1.4.1.2636.4.1	6	4	critical	CHASSISD_SNMP_TRAP
chassis	jnxTemperatureOK	1.3.6.1.4.1.2636.4.2	6	3	alert	CHASSISD_SNMP_TRAP
rmon-alarm	jnxRmonAlarmGetFailure	1.3.6.1.4.1.2636.4.3	6	1	—	—
rmon-alarm	jnxRmonGetOk	1.3.6.1.4.1.2636.4.3	6	2	—	—
routing	jnxLdpLspDown	1.3.6.1.4.1.2636.4.4	6	2	—	—
routing	jnxLdpLspUp	1.3.6.1.4.1.2636.4.4	6	1	—	—
routing	jnxMplsLspChange	1.3.6.1.4.1.2636.3.2.4	6	3	—	—
routing	jnxMplsLspDown	1.3.6.1.4.1.2636.3.2.4	6	2	—	—
routing	jnxMplsLspUp	1.3.6.1.4.1.2636.3.2.4	6	1	—	—

The sections that follow provide the Juniper Networks enterprise-specific MIBs for the SNMPv1 traps defined in Table 7, including:

Chassis Version 1 Traps MIB on page 61

RMON Events and Alarms Version 1 Traps MIB on page 65

LDP Version 1 Traps MIB on page 65

MPLS Version 1 Traps MIB on page 66

Chassis Version 1 Traps MIB

```

-- Chassis traps for chassis alarm conditions

jnxPowerSupplyFailure          TRAP-TYPE
ENTERPRISE jnxChassisTraps
VARIABLES {
    jnxContentsContainerIndex,
    jnxContentsL1Index,
    jnxContentsL2Index,
    jnxContentsL3Index,
    jnxContentsDescr,
    jnxOperatingState
}
DESCRIPTION
    "A jnxPowerSupplyFailure trap signifies that
    the specified power supply in the chassis has
    been in the failure (bad DC output) condition."
 ::= 1

jnxFanFailure                  TRAP-TYPE
ENTERPRISE                     jnxChassisTraps
VARIABLES {
    jnxContentsContainerIndex,
    jnxContentsL1Index,
    jnxContentsL2Index,
    jnxContentsL3Index,
    jnxContentsDescr,
    jnxOperatingState
}
DESCRIPTION
    "A jnxFanFailure trap signifies that the specified
    cooling fan or impeller in the chassis has been in
    the failure (not spinning) condition."
 ::= 2

jnxOverTemperature            TRAP-TYPE
ENTERPRISE                    jnxChassisTraps
VARIABLES {
    jnxContentsContainerIndex,
    jnxContentsL1Index,
    jnxContentsL2Index,
    jnxContentsL3Index,
    jnxContentsDescr,
    jnxOperatingTemp
}
DESCRIPTION
    "A jnxOverTemperature trap signifies that the
    specified hardware component in the chassis has
    experienced over temperature condition."
 ::= 3

```

```

jnxRedundancySwitchover          TRAP-TYPE
ENTERPRISE                       jnxChassisTraps
VARIABLES {
    jnxRedundancyContentsIndex,
    jnxRedundancyL1Index,
    jnxRedundancyL2Index,
    jnxRedundancyL3Index,
    jnxRedundancyDescr,
    jnxRedundancyConfig,
    jnxRedundancyState,
    jnxRedundancySwitchoverCount,
    jnxRedundancySwitchoverTime,
    jnxRedundancySwitchoverReason
}
DESCRIPTION
    "A jnxRedundancySwitchover trap signifies that
    the specified hardware component in the chassis
    has experienced a redundancy switchover event
    defined as a change in state of jnxRedundancyState
    from master to backup or vice versa."
 ::= 4

jnxFruRemoval                    TRAP-TYPE
ENTERPRISE                       jnxChassisTraps
VARIABLES {
    jnxFruContentsIndex,
    jnxFruL1Index,
    jnxFruL2Index,
    jnxFruL3Index,
    jnxFruName,
    jnxFruType,
    jnxFruSlot }
DESCRIPTION
    "A jnxFruRemoval trap signifies
    that the specified FRU (Field Replaceable Unit)
    has been removed from the chassis."
 ::= 5

jnxFruInsertion                  TRAP-TYPE
ENTERPRISE                       jnxChassisTraps
VARIABLES {
    jnxFruContentsIndex,
    jnxFruL1Index,
    jnxFruL2Index,
    jnxFruL3Index,
    jnxFruName,
    jnxFruType,
    jnxFruSlot }
DESCRIPTION
    "A jnxFruInsertion trap signifies that
    the specified FRU (Field Replaceable Unit) has been
    inserted into the chassis."
 ::= 6

```

```

jnxFruPowerOff          TRAP-TYPE
ENTERPRISE              jnxChassisTraps
VARIABLES {
    jnxFruContentsIndex,
    jnxFruL1Index,
    jnxFruL2Index,
    jnxFruL3Index,
    jnxFruName,
    jnxFruType,
    jnxFruSlot,
    jnxFruOfflineReason,
    jnxFruLastPowerOff,
    jnxFruLastPowerOn }

STATUS                  current
DESCRIPTION
    "A jnxFruPowerOff trap signifies that the SNMPv2
    entity, acting in an agent role, has detected
    that the specified FRU (Field Replaceable Unit)
    has been powered off in the chassis."
 ::= 7

jnxFruPowerOn          TRAP-TYPE
ENTERPRISE              jnxChassisTraps
VARIABLES { jnxFruContentsIndex,
            jnxFruL1Index,
            jnxFruL2Index,
            jnxFruL3Index,
            jnxFruName,
            jnxFruType,
            jnxFruSlot,
            jnxFruOfflineReason,
            jnxFruLastPowerOff,
            jnxFruLastPowerOn }

STATUS                  current
DESCRIPTION
    "A jnxFruPowerOn trap signifies that the SNMPv2
    entity, acting in an agent role, has detected that
    the specified FRU (Field Replaceable Unit) has been
    powered on in the chassis."
 ::= 8

```


RMON Events and Alarms Version 1 Traps MIB

```

-- Define branches for jnx rmon traps

jnxRmonTraps          OBJECT IDENTIFIER ::= { jnxTraps 3 }
jnxRmonTrapPrefix    OBJECT IDENTIFIER ::= { jnxRmonTraps 0 }

jnxTraps              OBJECT IDENTIFIER ::= { juniperMIB 4 }

jnxRmonTraps          OBJECT IDENTIFIER ::= { jnxTraps 3 }
jnxRmonTrapPrefix    OBJECT IDENTIFIER ::= { jnxRmonTraps 0 }

jnxRmonAlarmGetFailure TRAP-TYPE
  ENTERPRISE           jnxRmonTraps
  VARIABLES            { alarmIndex, alarmVariable, jnxRmonAlarmGetFailReason }
  DESCRIPTION
    "The SNMP trap that is generated when the get request for an alarm
    variable returns an error. The specific error is identified by
    jnxRmonAlarmGetFailReason."
  ::= 1

jnxRmonGetOk          TRAP-TYPE
  ENTERPRISE           jnxRmonTraps
  VARIABLES            { alarmIndex, alarmVariable }
  DESCRIPTION
    "The SNMP trap that is generated when the get request for an alarm
    variable is successful. This is only sent after previous attempts
    were unsuccessful."
  ::= 2

```

LDP Version 1 Traps MIB

```

-LDP traps

jnxLdpLspUp          TRAP-TYPE
  ENTERPRISE          jnxLdpTraps
  VARIABLES {
    jnxLdpLspFec
    jnxLdpRtrid
  }
  STATUS              mandatory
  DESCRIPTION
    "The SNMP trap that is generated when an LSP comes up."
  ::= 1

jnxLdpLspDown        TRAP-TYPE
  ENTERPRISE          jnxLdpTraps
  VARIABLES {
    jnxLdpLspFec
    jnxLdpRtrid
    jnxLdpLspDownReason
  }
  STATUS              mandatory
  DESCRIPTION
    "The SNMP trap that is generated when the LSP goes down."
  ::= 2

```

MPLS Version 1 Traps MIB

```

mplsLspUpV1          TRAP-TYPE
    ENTERPRISE        mplsTraps
    VARIABLES {
        mplsLspName,
        mplsPathName -- LspPath
    }
    DESCRIPTION
        "An mplsLspUp trap signifies that the specified LSP is up. The current active
        path for the LSP is mplsPathName."
    ::= 1

mplsLspDownV1        TRAP-TYPE
    ENTERPRISE        mplsTraps
    VARIABLES {
        mplsLspName,
        mplsPathName -- LspPath
    }
    DESCRIPTION
        "An mplsLspDown trap signifies that the specified LSP is down, because the current
        active path mplsPathName went down."
    ::= 2

mplsLspChangeV1      TRAP-TYPE
    ENTERPRISE        mplsTraps
    VARIABLES {
        mplsLspName,
        mplsPathName -- toLspPath
    }
    DESCRIPTION
        "An mplsLspChange trap signifies that the the specified LSP has switched traffic to the new
        active path 'toLspPath'. The LSP maintains up state before and after the switch over"
    ::= 3
    
```

Juniper Networks Enterprise-Specific SNMP Version 2 Traps

The JUNOS software supports the enterprise-specific version 2 traps shown in Table 8. The traps are organized first by trap category and then by trap name. The system logging severity levels are listed for those traps that have them. For traps that do not have corresponding system logging severity levels, the cell in the table is marked with an em-dash (—).

For more information about system messages, see the *JUNOS Internet Software System Log Messages Reference*. For more information about configuring system logging, see the *JUNOS Internet Software Configuration Guide: Getting Started*.

Table 8: Enterprise-Specific Supported SNMP Version 2 Traps

Trap Category	Trap Name	snmpTrapOID	System Logging Severity Level	System Log Tag
chassis	jnxFanFailure	1.3.6.1.4.1.2636.4.1.2	critical	CHASSISD_SNMP_TRAP
chassis	jnxFanOK	1.3.6.1.4.1.2636.4.2.2	critical	CHASSISD_SNMP_TRAP
chassis	jnxFruInsertion	1.3.6.1.4.1.2636.4.1.6	notice	CHASSISD_SNMP_TRAP
chassis	jnxFruPowerOff	1.3.6.1.4.1.2636.4.1.7	notice	CHASSISD_SNMP_TRAP
chassis	jnxFruPowerOn	1.3.6.1.4.1.2636.4.1.8	notice	CHASSISD_SNMP_TRAP
chassis	jnxFruRemoval	1.3.6.1.4.1.2636.4.1.5	notice	CHASSISD_SNMP_TRAP
chassis	jnxOverTemperature	1.3.6.1.4.1.2636.4.1.3	critical	CHASSISD_SNMP_TRAP
chassis	jnxPowerSupplyFailure	1.3.6.1.4.1.2636.4.1.1	alert	CHASSISD_SNMP_TRAP
chassis	jnxPowerSupplyOK	1.3.6.1.4.1.2636.4.2.1	critical	CHASSISD_SNMP_TRAP
chassis	jnxRedundancySwitchOver	1.3.6.1.4.1.2636.4.1.4	critical	CHASSISD_SNMP_TRAP
chassis	jnxTemperatureOK	1.3.6.1.4.1.2636.4.2.3	alert	CHASSISD_SNMP_TRAP
cfgmngmt	jnxCmCfgChange	1.3.6.1.4.1.2636.4.5.0.1	—	—
ldp	jnxLdpLspUp	1.3.6.1.4.1.2626.4.4.0.1	—	—
ldp	jnxLdpLspDown	1.3.6.1.4.1.2626.4.4.0.2	—	—
ldp	jnxLdpSesUp	1.3.6.1.4.1.2626.4.4.0.3	—	—
ldp	jnxLdpSesDown	1.3.6.1.4.1.2626.4.4.0.4	—	—
pmon	jnxPMonOverloadSet	1.3.6.1.4.1.2636.4.7.0.1	—	—
pmon	jnxPMonOverloadCleared	1.3.6.1.4.1.2636.4.7.0.2	—	—
rmon-alarms	jnxrisingAlarm	1.3.6.1.1.2.1.16.0.1	—	—
rmon-alarm	jnxfallingAlarm	1.3.1.2.1.16.0.2	—	—
rmon-alarm	jnxRmonAlarmGetFailure	1.3.6.1.4.1.1.2636.4.3.0.1	—	—
rmon-alarm	jnxRmonGetOk	1.3.6.1.4.1.2636.4.3.0.2	—	—
routing	jnxLdpLspDown	1.3.6.1.4.1.2636.4.4.0.2	—	—
routing	jnxLdpLspUp	1.3.6.1.4.1.2636.4.4.0.1	—	—
routing	jnxMplsLspUp	1.3.6.1.4.1.2636.3.2.4.1	—	—
routing	jnxMplsLspDown	1.3.6.1.4.1.2636.3.2.4.2	—	—
routing	jnxMplsLspChange	1.3.6.1.4.1.2636.3.2.4.3	—	—
sonet	jnxSonetAlarmSet	1.3.6.1.4.1.2636.4.6.0.1	—	—
sonet	jnxSonetAlarmCleared	1.3.6.1.4.1.2636.4.6.0.2	—	—
sonetaps	apsEventSwitchover	1.3.6.1.4.1.2636.3.24.2.0.1	—	—
sonetaps	apsEventModeMismatch	1.3.6.1.4.1.2636.3.24.2.0.2	—	—

Trap Category	Trap Name	snmpTrapOID	System Logging Severity Level	System Log Tag
sonetaps	apsEventChannelMismatch	1.3.6.1.4.1.2636.3.24.2.0.3	—	—
sonetaps	apsEventPSBF	1.3.6.1.4.1.2636.3.24.2.0.4	—	—
sonetaps	apsEventFEPLF	1.3.6.1.4.1.2636.3.24.2.0.5	—	—

The sections that follow provide the Juniper Networks enterprise-specific MIBs for the SNMPv2 traps defined in Table 8, including:

Chassis Version 2 Traps MIB on page 69

LDP Version 2 Traps MIB on page 72

MPLS Version 2 Traps MIB on page 73

Passive Monitoring Overload Interface Version 2 Traps on page 74

RMON Alarm and Event Version 2 Traps MIB on page 75

SONET/SDH Interface Version 2 Traps on page 76

SONET Automatic Protection Switching Version 2 Traps on page 76

Chassis Version 2 Traps MIB

```

-- Traps for chassis alarm cleared conditions

jnxPowerSupplyOK          NOTIFICATION-TYPE
OBJECTS {
    jnxContentsContainerIndex,
    jnxContentsL1Index,
    jnxContentsL2Index,
    jnxContentsL3Index,
    jnxContentsDescr,
    jnxOperatingState }
STATUS                      current
DESCRIPTION
    "A jnxPowerSupplyOK trap signifies that the
    SNMPv2 entity, acting in an agent role, has
    detected that the specified power supply in the
    chassis has recovered from the failure (bad DC output)
    condition."
 ::= { jnxChassisOKTraps 1 }

jnxFanOK                  NOTIFICATION-TYPE
OBJECTS{
    jnxContentsContainerIndex,
    jnxContentsL1Index,
    jnxContentsL2Index,
    jnxContentsL3Index,
    jnxContentsDescr,
    jnxOperatingState }
STATUS                      current
DESCRIPTION
    "A jnxFanOK trap signifies that the SNMPv2
    entity, acting in an agent role, has detected that
    the specified cooling fan or impeller in the chassis
    has recovered from the failure (not spinning) condition."
 ::= { jnxChassisOKTraps 2 }

jnxTemperatureOK         NOTIFICATION-TYPE
OBJECTS{
    jnxContentsContainerIndex,
    jnxContentsL1Index,
    jnxContentsL2Index,
    jnxContentsL3Index,
    jnxContentsDescr,
    jnxOperatingTemp }
STATUS                      current
DESCRIPTION
    "A jnxTemperatureOK trap signifies that the
    SNMPv2 entity, acting in an agent role, has
    detected that the specified hardware component
    in the chassis has recovered from over temperature
    condition."
 ::= { jnxChassisOKTraps 3 }

-- ::= { jnxChassisOKTraps 4 }          This OID is skipped intentionally.

```

```

jnxFruRemoval          NOTIFICATION-TYPE
OBJECTS {
    jnxFruContentsIndex,
    jnxFruL1Index,
    jnxFruL2Index,
    jnxFruL3Index,
    jnxFruName,
    jnxFruType,
    jnxFruSlot }

STATUS                 current
DESCRIPTION
    "A jnxFruRemoval trap signifies that the SNMPv2
    entity, acting in an agent role, has detected
    that the specified FRU (Field Replaceable Unit)
    has been removed from the chassis."
::= { jnxChassisTraps 5 }

jnxFruInsertion       NOTIFICATION-TYPE
OBJECTS {
    jnxFruContentsIndex,
    jnxFruL1Index,
    jnxFruL2Index,
    jnxFruL3Index,
    jnxFruName,
    jnxFruType,
    jnxFruSlot }

STATUS                 current
DESCRIPTION
    "A jnxFruInsertion trap signifies that the SNMPv2
    entity, acting in an agent role, has detected that
    the specified FRU (Field Replaceable Unit) has been
    inserted into the chassis."
::= { jnxChassisTraps 6 }

jnxFruPowerOff        NOTIFICATION-TYPE
OBJECTS {
    jnxFruContentsIndex,
    jnxFruL1Index,
    jnxFruL2Index,
    jnxFruL3Index,
    jnxFruName,
    jnxFruType,
    jnxFruSlot,
    jnxFruOfflineReason,
    jnxFruLastPowerOff,
    jnxFruLastPowerOn }

STATUS                 current
DESCRIPTION
    "A jnxFruPowerOff trap signifies that the SNMPv2
    entity, acting in an agent role, has detected
    that the specified FRU (Field Replaceable Unit)
    has been powered off in the chassis."
::= { jnxChassisTraps 7 }

```

```

jnxFruPowerOn NOTIFICATION-TYPE
OBJECTS {
    jnxFruContentsIndex,
    jnxFruL1Index,
    jnxFruL2Index,
    jnxFruL3Index,
    jnxFruName,
    jnxFruType,
    jnxFruSlot,
    jnxFruOfflineReason,
    jnxFruLastPowerOff,
    jnxFruLastPowerOn }

STATUS current
DESCRIPTION
    "A jnxFruPowerOn trap signifies that the SNMPv2
    entity, acting in an agent role, has detected that
    the specified FRU (Field Replaceable Unit) has been
    powered on in the chassis."
::= { jnxChassisTraps 8 }

-- Traps for chassis alarm cleared conditions

jnxPowerSupplyOK NOTIFICATION-TYPE
OBJECTS{ jnxContentsContainerIndex,
    jnxContentsL1Index,
    jnxContentsL2Index,
    jnxContentsL3Index,
    jnxContentsDescr,
    jnxOperatingState }
STATUScurrent
DESCRIPTION
    "A jnxPowerSupplyOK trap signifies that the
    SNMPv2 entity, acting in an agent role, has
    detected that the specified power supply in the
    chassis has recovered from the failure (bad DC output
    condition."
::= { jnxChassisOKTraps 1 }

jnxFanOK NOTIFICATION-TYPE
OBJECTS{ jnxContentsContainerIndex,
    jnxContentsL1Index,
    jnxContentsL2Index,
    jnxContentsL3Index,
    jnxContentsDescr,
    jnxOperatingState }
STATUScurrent
DESCRIPTION
    "A jnxFanOK trap signifies that the SNMPv2
    entity, acting in an agent role, has detected that
    the specified cooling fan or impeller in the chassis
    has recovered from the failure (not spinning) condition."
::= { jnxChassisOKTraps 2 }

```

```

jnxTemperatureOK NOTIFICATION-TYPE
OBJECTS { jnxContentsContainerIndex,
          jnxContentsL1Index,
          jnxContentsL2Index,
          jnxContentsL3Index,
          jnxContentsDescr,
          jnxOperatingTemp }
STATUS current
DESCRIPTION
  "A jnxTemperatureOK trap signifies that the
  SNMPv2 entity, acting in an agent role, has
  detected that the specified hardware component
  in the chassis has recovered from over temperature
  condition."
 ::= { jnxChassisOKTraps 3 }

```

LDP Version 2 Traps MIB

```

-- Define branches for jnx ldp traps

jnxLdpLspUp NOTIFICATION-TYPE
OBJECTS {
  jnxLdpLspFec
  jnxLdpRtrid
}
STATUS current
DESCRIPTION
  "The SNMP trap that is generated when an LSP comes up."
 ::= { jnxLdpTrapPrefix 1 }

jnxLdpLspDown NOTIFICATION-TYPE
OBJECTS {
  jnxLdpLspFec
  jnxLdpRtrid
  jnxLdpLspDownReason
}
STATUS current
DESCRIPTION
  "The SNMP trap that is generated when the LSP goes down."
 ::= { jnxLdpTrapPrefix 2 }

jnxLdpSesUp NOTIFICATION-TYPE
OBJECTS { mplsLdpSesState }
STATUS current
DESCRIPTION
  "The SNMP trap that is generated when the value of 'mplsLdpSesState'
  enters the 'operational (5) state.'"
 ::= { jnxLdpTrapPrefix 3 }

jnxLdpSesDown NOTIFICATION-TYPE
OBJECTS { mplsLdpSesState,
          jnxLdpSesDownReason,
          jnxLdpSesDownIf }
STATUS current
DESCRIPTION
  "The SNMP trap that is generated when the value of 'mplsLdpSesState'
  leaves the 'operational (5) state. The value of jnxLdpSesDownIf is
  only meaningful when jnxLdpSesDownReason is allAdjacenciesDown (3),
  otherwise it is 0."
 ::= { jnxLdpTrapPrefix 4 }

```

MPLS Version 2 Traps MIB

```

-- definition of MPLS traps
--
mplsTraps          OBJECT IDENTIFIER ::= { mpls 4 }

mplsLspUp          NOTIFICATION-TYPE
  OBJECTS {
    mplsLspName,
    mplsPathName } -- LspPath
  STATUS           current
  DESCRIPTION
    "An mplsLspUp trap signifies that the
    specified LSP is up. The current active
    path for the LSP is mplsPathName."
  ::= { mplsTraps 1 }

mplsLspDown       NOTIFICATION-TYPE
  OBJECTS {
    mplsLspName,
    mplsPathName } -- LspPath
  STATUS           current
  DESCRIPTION
    "An mplsLspDown trap signifies that the
    specified LSP is down, because the current
    active path mplsPathName went down."
  ::= { mplsTraps 2 }

mplsLspChange     NOTIFICATION-TYPE
  OBJECTS {
    mplsLspName,
    mplsPathName } -- toLspPath
  STATUS           current
  DESCRIPTION
    "An mplsLspChange trap signifies that the
    the specified LSP has switched traffic to
    the new active path 'toLspPath'. The LSP maintains
    up state before and after the switch over"
  ::= { mplsTraps 3 }

```

Passive Monitoring Overload Interface Version 2 Traps



To send passive monitoring overload interface traps, include the link statement at the [edit snmp trap-group categories] hierarchy level.

```
--
-- Passive Monitoring Notifications
--

jnxPMonNotificationPrefix OBJECT IDENTIFIER ::= { jnxPMonNotifications 0 }

jnxPMonOverloadSet          NOTIFICATION-TYPE
    OBJECTS { ifDescr,
                jnxPMonLastOverload,
                jnxPMonCurrentOverload,
                jnxPMonLastOverloadDate }
    STATUS current
    DESCRIPTION
        "Notification of a new overload condition on a Passive
        Monitoring interface."
    ::= { jnxPMonNotificationPrefix 1 }

jnxPMonOverloadCleared     NOTIFICATION-TYPE
    OBJECTS { ifDescr,
                jnxPMonLastOverload,
                jnxPMonCurrentOverload,
                jnxPMonLastOverloadDate }
    STATUS current
    DESCRIPTION
        "Notification of a cleared overload condition on a Passive
        Monitoring interface."
    ::= { jnxPMonNotificationPrefix 2 }
```

RMON Alarm and Event Version 2 Traps MIB

```

-- define branches for jnx rmon traps
--
-- Note that we need jnxRmonTrapPrefix with the 0
-- sub-identifier to make this MIB translate to
-- an SNMPv1 format in a reversible way. For example
-- it is needed for proxies that convert SNMPv1 traps
-- to SNMPv2 notifications without MIB knowledge.
--

jnxRmonTraps          OBJECT IDENTIFIER ::= { jnxTraps 3 }
jnxRmonTrapPrefix    OBJECT IDENTIFIER ::= { jnxRmonTraps 0 }

jnxRmonAlarmGetFailure  NOTIFICATION-TYPE
  OBJECTS {
    alarmIndex
    alarmVariable
    jnxRmonAlarmGetFailReason
  }
  STATUS current
  DESCRIPTION
    "The SNMP trap that is generated when the get request for an alarm
    variable returns an error. The specific error is identified by
    jnxRmonAlarmGetFailReason."
    ::= { jnxRmonTrapPrefix 1 }

jnxRmonGetOk          NOTIFICATION-TYPE
  OBJECTS {
    alarmIndex
    alarmVariable
  }
  STATUS current
  DESCRIPTION
    "The SNMP trap that is generated when the get request for an alarm
    variable is successful. This is only sent after previous attempts
    were unsuccessful."
    ::= { jnxRmonTrapPrefix 2 }

```

SONET/SDH Interface Version 2 Traps

```

--
-- SONET/SDH Interface Notifications
--

jnxSonetNotificationPrefix      OBJECT IDENTIFIER ::= { jnxSonetNotifications 0 }

jnxSonetAlarmSet                NOTIFICATION-TYPE
  OBJECTS { ifDescr,
            jnxSonetLastAlarmId,
            jnxSonetCurrentAlarms,
            jnxSonetLastAlarmDate }
  STATUS current
  DESCRIPTION
    "Notification of a recently set sonet alarm."
    ::= { jnxSonetNotificationPrefix 1 }

jnxSonetAlarmCleared           NOTIFICATION-TYPE
  OBJECTS { ifDescr,
            jnxSonetLastAlarmId,
            jnxSonetCurrentAlarms,
            jnxSonetLastAlarmDate }
  STATUS current
  DESCRIPTION
    "Notification of a recently cleared sonet alarm."
    ::= { jnxSonetNotificationPrefix 2 }

```

SONET Automatic Protection Switching Version 2 Traps

```

--
-- APS EVENTS
--

apsNotificationsPrefix OBJECT IDENTIFIER
  ::= { apsMIBNotifications 0 }

apsEventSwitchover           NOTIFICATION-TYPE
  OBJECTS { apsChanStatusSwitchovers, apsChanStatusCurrent }
  STATUS current
  DESCRIPTION
    "An apsEventSwitchover notification is sent when the
    value of an instance of apsChanStatusSwitchovers increments."
    ::= { apsNotificationsPrefix 1 }

apsEventModeMismatch         NOTIFICATION-TYPE
  OBJECTS { apsStatusModeMismatches, apsStatusCurrent }
  STATUS current
  DESCRIPTION
    "An apsEventModeMismatch notification is sent when the
    value of an instance of apsStatusModeMismatches increments."
    ::= { apsNotificationsPrefix 2 }

```

```

apsEventChannelMismatch    NOTIFICATION-TYPE
  OBJECTS { apsStatusChannelMismatches, apsStatusCurrent }
  STATUS current
  DESCRIPTION
    "An apsEventChannelMismatch notification is sent when the
    value of an instance of apsStatusChannelMismatches increments."
  ::= { apsNotificationsPrefix 3 }

apsEventPSBF                NOTIFICATION-TYPE
  OBJECTS { apsStatusPSBFs, apsStatusCurrent }
  STATUS current
  DESCRIPTION
    "An apsEventPSBF notification is sent when the
    value of an instance of apsStatusPSBFs increments."
  ::= { apsNotificationsPrefix 4 }

apsEventFEPLF              NOTIFICATION-TYPE
  OBJECTS { apsStatusFEPLFs, apsStatusCurrent }
  STATUS current
  DESCRIPTION
    "An apsEventFEPLFs notification is sent when the
    value of an instance of apsStatusFEPLFs increments."
  ::= { apsNotificationsPrefix 5 }

```

