

Chapter 22

Interpret the Enterprise-Specific SONET/SDH Interface Management MIB

The SONET/SDH Interface Management MIB sends the current alarm state for each SONET/SDH interface. When the alarm state changes on an interface, the MIB updates its alarm status. For information about SONET traps, see “SONET/SDH Interface Version 2 Traps” on page 76. For a downloadable version of this MIB, see www.juniper.net/techpubs/software/junos/junos60/swconfig60-net-mgmt/html/mib-jnx-sonet.txt.

This chapter discusses the following topic:

jnxSonetAlarmsTable on page 231

jnxSonetAlarmsTable

The jnxSonetAlarmsTable, whose object identifier is {jnxSonetAlarm 1}, provides information about alarm status on SONET/SDH physical interfaces.

jnxSonetAlarmEntry

The jnxSonetAlarmEntry, whose object identifier is {jnxSonetAlarmTable 1} has five objects, which are listed in table 51:

Table 51: jnxSonetAlarmTable

| Object | Object Identifier | Description |
|------------------------|----------------------|---|
| jnxSonetCurrentAlarms | jnxSonetAlarmEntry 1 | Identifies all the active SONET/SDH alarms on this interface. |
| jnxSonetLastAlarmId | jnxSonetAlarmEntry 2 | Identifies the SONET/SDH alarm that most recently was set or cleared. |
| jnxSonetLastAlarmTime | jnxSonetAlarmEntry 3 | The value of sysUpTime when the management subsystem learned of the last alarm event. |
| jnxSonetLastAlarmDate | jnxSonetAlarmEntry 4 | The system date and time when the management subsystem learned of the last alarm event. |
| jnxSonetLastAlarmEvent | jnxSonetAlarmEntry 5 | Indicates whether the last alarm event set a new alarm or cleared an existing alarm. |

Table 52 provides an example of jnxSonetAlarmInterface objects on an M20 router.

Table 52: jnxSonetAlarmInterface Objects in jnxSonetAlarmTable of an M20 router

| Alarm Interface | CurrentAlarms | Last Alarm ID | Last Alarm Time (System Up Time) | Last Alarm Date and Time | Last Alarm Event |
|-----------------|--------------------------------------|---------------------|----------------------------------|-----------------------------|------------------|
| 14 | sonetLolAlarm(0) sonetLosAlarm(3) | sonetLosAlarm(3) | 0:01:37.15 | 2002-10-15, 10:21:14.0,-7:0 | set(2) |
| 15 | sonetLosAlarm(3) | sonetLosAlarm(3) | 8 days, 4:09:46.22 | 2002-10-23,14:29:23.0,-7:0 | set(2) |
| 16 | sonetLolAlarm(0) sonetLosAlarm(3) | sonetBerrSdAlarm(8) | 8 days, 4:09:46.21 | 2002-10-23,14:29:23.0,-7:0 | cleared(3) |
| 17 | sonetLofAlarm(2) | sonetLaisAlarm(5) | 8 days, 4:09:47.21 | 2002-10-23,14:29:24.0,-7:0 | cleared(3) |
| 18 | ----- ----- | sonetLosAlarm(3) | 7 days, 4:31:27.53 | 2002-10-22,14:51:4.0,-7:0 | cleared(3) |
| 19 | sonetLolAlarm(0) sonetLosAlarm(3) | sonetLosAlarm(3) | 0:01:37.16 | 2002-10-15,10:21:14.0,-7:0 | set(2) |
| 20 | sonetLolAlarm(0) sonetLosAlarm(3) | sonetLosAlarm(3) | 0:01:37.17 | 2002-10-15,10:21:14.0,-7:0 | set(2) |
| 21 | ----- ----- | sonetLofAlarm(2) | 7 days, 11:15:00.15 | 2002-10-22,21:34:37.0,-7:0 | cleared(3) |
| 22 | sonetLolAlarm(0) sonetLosAlarm(3) | sonetLolAlarm(0) | 7 days, 6:33:32.02 | 2002-10-22,16:53:8.0,-7:0 | set(2) |
| 23 | ----- ----- | sonetLosAlarm(3) | 7 days, 6:33:45.02 | 2002-10-22,16:53:21.0,-7:0 | cleared(3) |
| 24 | sonetLolAlarm(0) sonetLosAlarm(3) | sonetLosAlarm(3) | 0:01:37.07 | 2002-10-15,10:21:14.0,-7:0 | set(2) |
| 25 | sonetLolAlarm(0) sonetLosAlarm(3) | sonetLosAlarm(3) | 0:01:37.08 | 2002-10-15,10:21:14.0,-7:0 | set(2) |
| 26 | ----- ----- | ----- - | 0:00:00.00 | 0-0-0,0:0:0.0, | none(1) |
| 27 | sonetLolAlarm(0) sonetLosAlarm(3) | sonetLosAlarm(3) | 0:01:38.04 | 2002-10-15,10:21:14.0,-7:0 | set(2) |
| 28 | sonetLolAlarm(0) sonetLosAlarm(3) | sonetLosAlarm(3) | 0:01:38.04 | 2002-10-15,10:21:14.0,-7:0 | set(2) |
| 29 | sonetLolAlarm(0) sonetLosAlarm(3) | sonetLosAlarm(3) | 0:01:38.04 | 2002-10-15,10:21:14.0,-7:0 | set(2) |