

## Chapter 26

# Interpreting 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 a downloadable version of this MIB, see [www.juniper.net/techpubs/software/junos/junos71/swconfig71-net-mgmt/html/mib-jnx-sonet.txt](http://www.juniper.net/techpubs/software/junos/junos71/swconfig71-net-mgmt/html/mib-jnx-sonet.txt).

This chapter discusses the following topic:

`jnxSonetAlarmsTable` on page 319

## `jnxSonetAlarmsTable`

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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 54.

**Table 54: `jnxSonetAlarmTable`**

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

Table 55 55 provides an example of jnxSonetAlarmInterface objects on an M20 router.

**Table 55: jnxSonetAlarmInterface Objects in the 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)