

Chapter 22

Interpreting the Enterprise-Specific RMON Events and Alarms MIB

The remote monitoring (RMON) events and alarms MIB monitors objects on a device and warns the network system administrator if one of those values exceeds the defined range. The alarm monitors objects in this MIB and triggers an event when the condition (falling or rising threshold) is reached.

The Juniper Networks enterprise-specific extension to the standard RMON MIB augments the alarmTable with additional information about each alarm. Two new traps, `jnxRmonAlarmGetFailure` and `jnxRmonGetOk`, are also defined to indicate when problems are encountered with an alarm.

To view a complete copy of the enterprise-specific extensions to the RMON MIB, see www.juniper.net/techpubs/software/junos/junos71/swconfig71-net-mgmt/html/mib-jnx-rmon.txt. For more information on RMON alarms and events, see “RMON Alarms and Events” on page 175.

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jnxRmonAlarmTable

The entries in the `jnxRmonAlarmTable`, whose object identifier is `{jnxMibs 13}`, are represented by `jnxRmonAlarmEntry`, whose object identifier is `{jnxRmonAlarmTable1}` and are listed in Table 49.

Table 49: jnxRmonAlarmEntry

| Object | Object Identifier | Description |
|--|----------------------------------|---|
| <code>jnxRmonAlarmGetFailCnt</code> | <code>jnxRmonAlarmEntry 1</code> | Represents the number of times the internal Get request for the variable monitored by this entry has failed. |
| <code>jnxRmonAlarmGetFailTime</code> | <code>jnxRmonAlarmEntry 2</code> | Represents the value of <code>sysUpTime</code> when an internal Get request for the variable monitored by this entry last failed. |
| <code>jnxRmonAlarmGetFailReason</code> | <code>jnxRmonAlarmEntry 3</code> | <p>Represents the reason an internal Get request for the variable monitored by this entry last failed. This object contains the following values:</p> <ul style="list-style-type: none"> <code>other (1)</code>—An error was encountered that does not fit into one of the currently defined categories. <code>noError (2)</code>—Get request processed successfully. <code>noSuchObject (3)</code>—Requested object not available. <code>outOfView (4)</code>—Requested object instance out of MIB view. <code>noSuchInstance (5)</code>—Requested object instance not available. <code>badReqId (6)</code>—Unexpected request ID encountered while processing Get request. <code>oidMatchErr (7)</code>—Unexpected object ID encountered while processing Get request. <code>oidBindErr (8)</code>—Unable to bind object ID to Get request PDU. <code>createPktErr (9)</code>—Unable to create Get request PDU. <code>badObjType (10)</code>—Unexpected object type encountered while processing Get request. |

| Object | Object Identifier | Description |
|-----------------------|---------------------|---|
| jnxRmonAlarmGetOkTime | jnxRmonAlarmEntry 4 | Represents the value of sysUpTime when an internal Get request for the variable monitored by this entry succeeded and the entry left the getFailure state. |
| jnxRmonAlarmState | jnxRmonAlarmEntry 5 | Represents the current state of this RMON alarm entry. This object contains the following values: unknown (1)—Alarm entry unknown underCreation (2)—Alarm entry not activated active (3)—Alarm entry active and within thresholds startup (4)—Alarm entry still waiting for first value risingThreshold (5)—Alarm entry has crossed the rising threshold. fallingThreshold (6)—Alarm entry has crossed the falling threshold getFailure (7)—Alarm entry internal Get request failed. |

RMON Event and Alarm Traps

The following traps send notifications when there is a problem with RMON alarm processing and are listed in Table 50.

Table 50: RMON Event and Alarm Traps

| Trap | Object Identifier | Description |
|------------------------|---------------------|---|
| jnxRmonAlarmGetFailure | jnxRmonTrapPrefix 1 | Generated when the Get request for an alarm variable returns an error. The specific error is identified by jnxRmonAlarmGetFailReason. |
| jnxRmonGetOk | jnxRmonTrapPrefix 2 | Generated when the Get request for an alarm variable is successful. This trap is only sent after previous attempts are unsuccessful. |

