apsStatusTable

apsStatusTable provides status information about configured APS groups.

apsStatusEntry objects have read access only and are listed in Table 1.

Table 1: apsStatusTable

Object	Object Identifier	Description
apsStatusK1K2Rcv	apsStatusEntry 1	The current value of the K1 and K2 bytes received on the protection channel.
apsStatusK1K2Trans	apsStatusEntry 2	The current value of the K1 and K2 bytes transmitted on the protection channel.
apsStatusCurrent	apsStatusEntry 3	The current status of the APS group. This object has the following values: ■ modeMismatch—Modes other than 1 + 1 unidirectional monitor protection line K2 bit 5, which indicates the architecture, and K2 bits 6 through 8, which indicate whether the mode is unidirectional or bidirectional. A conflict between the current local mode and the received K2 mode information constitutes a mode mismatch. JUNOS Software supports only bidirectional mode. ■ channelMismatch—A mismatch between the transmitted K1 channel and the received K2 channel has been detected.

Table 1: apsStatusTable *(continued)*

Object	Object Identifier	Description
apsStatusCurrent (cont.)	apsStatusEntry 3	■ psbf—A protection switch byte failure (PSBF) is in effect. This condition occurs when either an inconsistent APS byte or an invalid code is detected. An inconsistent APS byte occurs when no 3 consecutive K1 bytes of the last 12 successive frames are identical, starting with the last frame containing a previously consistent byte. An invalid code occurs when the incoming K1 byte contains an unused code or a code irrelevant for the specific switching operation (for example, reverse request while no switching request is outstanding) in three consecutive frames. An invalid code also occurs when the incoming K1 byte contains an invalid channel number in three consecutive frames. ■ feplf—Modes other than 1 + 1 unidirectional monitor the K1 byte for far-end protection-line failures. A far-end protection-line defect is declared based on receiving a signal failure (SF) on the protection line. ■ extraTraffic—Indicates whether extra traffic is currently being accepted on the protection line. ■ extraTraffic—Indicates whether extra traffic is currently being accepted on the protection line.
apsStatusModeMismatches	apsStatusEntry 4	Counts mode mismatch conditions. Discontinuities in the value of this counter can occur when the management system is reinitialized, and at other times as indicated by the value of apsStatusDiscontinuityTime.
apsStatusChannelMis-matches	apsStatusEntry 5	Counts channel mismatch conditions. Discontinuities in the value of this counter can occur when the management system is reinitialized, and at other times as indicated by the value of apsStatusDiscontinuityTime.

Table 1: apsStatusTable *(continued)*

Object	Object Identifier	Description
apsStatusPSBFs	apsStatusEntry 6	Counts protection switch byte failure conditions. This condition occurs when either an inconsistent APS byte or an invalid code is detected. An inconsistent APS byte occurs when no 3 consecutive K1 bytes of the last 12 successive frames are identical, starting with the last frame containing a previously consistent byte. An invalid code occurs when the incoming K1 byte contains an unused code or a code irrelevant for the specific switching operation (for example, reverse request while no switching request is outstanding) in three consecutive frames. An invalid code also occurs when the incoming K1 byte contains an invalid channel number in three consecutive frames. Discontinuities in the value of this counter can occur when the management system is reinitialized, and at other times as indicated by the value of apsStatusDiscontinuityTime.
apsStatusFEPLFs	apsStatusEntry 7	Counts far-end protection-line failure conditions. This condition is declared based on receiving a signal failure (SF) on the protection line in the K1 byte. Discontinuities in the value of this counter can occur when the management system is reinitialized, and at other times as indicated by the value of apsStatusDiscontinuityTime.
apsStatusSwitchedChannel	apsStatusEntry 8	This field is set to the number of the channel that is currently switched to protection. The value 0 indicates that no channel is switched to protection. The values 1 through 14 indicate that the working channel is switched to protection.
apsStatusDiscontinuity-Time	apsStatusEntry 9	The value of sysUpTime when the last one or more of this APS group's counters experienced a discontinuity. The relevant counters are the specific instances associated with this APS group of any Counter32 object contained in apsStatusTable. If no such discontinuities have occurred since the last reinitialization of the local management subsystem, then this object contains a zero value.

Related Topics

- SONET APS MIB
- apsConfigTable

- apsChanConfigTable
- apsChanStatusTable

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