Video MIBs

The SCTE-HMS-MPEG-MIB and SCTE-HMS-QAM-MIB are supported under the video management framework of Cisco cBR-8 routers.

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SCTE-HMS-MPEG-MIB

SCTE-HMS-MPEG-MIB MIB module represents the MPEG equipment in the headend. It defines both the MPEG input and output MIB objects for managing MPEG input and output transport streams, programs and elementary streams. It provides both input and output related statistics, as well as program mapping and video session information. It includes the following tables:

mpegInputTSEntry
Provides the details of input transport stream to a video session.

mpegInputProgEntry
Describes the PSI of each incoming program.

mpegProgESEntry
Contains information about the elementary streams in a program.

mpegInputStatsEntry
Each entry in this table describes statistics for each input transport stream.

mpegInputUdpOriginationEntry
Specifies the UDP unicast or multicast flows of an input transport stream. For unicast streams, it represents the UDP port and optionally destination IP address of the input transport stream origination UDP IP flow. For multicast streams, it represents the set of SSM multicast groups of the input transport stream origination UDP IP flow.
mpegInsertPacketEntry
Describes packet insertion information. Typical packets that are inserted at the RF output of a device are PSI, PSIP, and CVCT MPEG packets. These packets have their own PID. This table may be empty if the video device does not support packet insertion or does not have any packet insertion configured.

mpegOutputStatsEntry
Specifies the diagnostic statistics objects for the output transport stream of an MPEG device.

mpegOutputTSEntry
Specifies the attributes of an outgoing transport stream SPTS or MPTS.

mpegOutputProgEntry
Describes the PSI of each outgoing program.

mpegOutputProgElemStatsEntry
Contains the statistical information associated with the elementary streams of an MPEG program.

mpegOutputUdpDestinationEntry
Specifies the UDP unicast or multicast of the output transport stream this entry references.

mpegProgramMappingEntry
Describes program mappings, i.e., ties the input destination to the output destination for every active program in the device.

mpegVideoSessionEntry
Stores video session information. The session type is VOD, SDV or DB. It captures logical information about a video stream, such as source and destination addresses, UDP port etc., and also ties this information with direct mapping of input and output programs.

mpegVideoSessionPtrEntry
Provides a quick reference of the program mapping and input/output transport stream connection information associated with a video session.

mpegInputTSOutputSessionEntry
Specifies the list of output session indexes that the input transport stream entry is feeding. For unicast sessions, it typically points to just one output session. For multicast sessions, it points to all the output sessions using this internally replicated input transport stream.

SCTE-HMS-QAM-MIB
SCTE-HMS-QAM-MIB represents edge QAM equipment present in the headend. It defines QAM channel related configuration MIB objects associated with physical and logical characteristics of the QAM channel. It includes the following tables:
**qamChannelTable**
Describes the configuration and attribution of each QAM channel designated by ifIndex.

**qamChannelCommonTable**
Describes QAM channel output bandwidth and utilization information designation by ifIndex.

**qamConfigTable**
Contains the following parameters for a range of QAM Channels:

- IP addresses configuration for the QAM channels (VEI IP Addresses)
- Program number range associated with QAM channels (constant in Cisco cBR-8 routers)
- UDP port range (constant in Cisco cBR-8 routers)