802.1Qbg
Bridge management
Clause 12

V2
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IEEE 802.1Qbg Management

- Need to complete 802.1Qbg clause 12, 17 and K.10
  - Clause 12 information model objects
  - Clause 17 Bridge SNMP MIB
  - Clause K.10 IEEE 802.1AB SNMP MIB 802.1 TLV extensions
-Clause 12 object extensions required
  - Objects for the VDP state machines
  - Objects for the VSI database
  - Objects for the ECP state machines
  - Objects for the CDCP state machines
  - Objects for the S-Channel state database (if required)
Relationships among EVB objects

- S-Channel managed object includes all EVB, ECP, and DSI state info
802.1Qbg VDP Machine objects

- Subclause 12.23 ? Need a number assigned
- VDP objects: One set per station
  - Station Objects (one set ) New annex for station MIB? Let DMTF do station MIB? Bridge MIB in vSwitch?
    - Command response timeout
    - Keep Alive interval
    - Keep Alive response timeout
  - Bridge Objects (one set per station)
    - Resource timeout
    - Keep Alive command timeout
- ECP objects: One set per ECP instance (per S-channel)
  - ackTimer
  - TxFrame Count – Successful – Read Only - 64 bits
  - TxRetry Count – Total – Read Only – 64 bits
  - TxFailures – Total – Read Only – 64 bits
  - RxFrame Count – Successful – Read Only – 64 bits
- CDCP objects: once set per CDCP instance
  - CID table
    - S-channel state
    - S-channel VID
    - Reserve Pool of VIDs
VSI managed object

- Table of all VSIs keyed by VSI-ID (one table for station and for Bridge)
  - VSI-ID (may have multiple instance of VSI-ID active in the DC for motion)
  - Current VDP state
  - S-Channel / Port association
  - Operating Command