STREAM MANAGEMENT for

IEEE 802.1AVB

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ENTROPIC communications

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Stream Services Primitives

Stream Admission Control Primitives

Stream Management Primitives (Proposed)
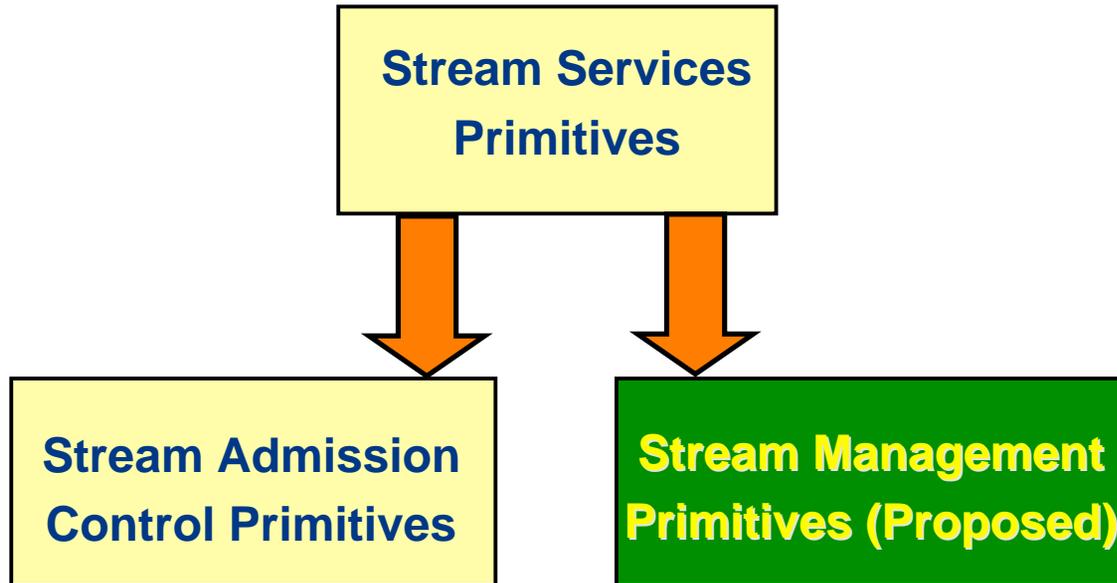
Stream AC primitives:

1. Create (or Add) stream
2. Dynamic Update (or Modify) stream
3. Delete (or Tear Down) stream

Stream Management primitives:

1. List (ingress node) streams
2. Query (QoS capable node)

- ■ Proposed change

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Two methods for stream management:

- IEEE 802.1 MIBs using SNMP

- L2 stream management primitives (presented at IEEE 802.1 Monterey meeting)

Stream Management Methods Pros and Cons

Method	L2 Stream Management	802.1 MIBs
Advantages	• **Low-cost AVB bridge – approximately up to 50% cost saving** • **Simpler stream management across multiple L2 QoS segments**	• **IEEE 802.1 MIB structure is already defined**
Disadvantages	• **Add primitives to current SRP**	• **Required higher-layer protocol support** • **Increased AVB bridge cost**
Recommendation	**Adopt L2 stream management as an alternative method to IEEE 802.1 MIBs for some applications**	

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Open Issues

- **The current IEEE 802.1at/D0.3 draft is still missing the following details:**
  1. **Overall SRP reference model**
  2. **Theory of operation**
  3. **Revised Reservation PDUs**

- **Dynamic stream update – agreed to be added at last IEEE 802.1 meeting**

- **Supported TSPEC parameters for different PHY layers (TBD)**