IEEE 1722.1REV - ACMP Changes

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Acquisition

- Flag in the ADP/AEM Entity Descriptor entity_capabilities field indicates that when the AVDECC Entity is acquired (with the AEM ACQUIRE command) that only the acquired AVDECC controller can send ACMP commands which change the state (e.g. CONNECT_TX_COMMAND, CONNECT_RX_COMMAND, etc.)

- See IEEE 1722.1REV - ADP Changes for the flag
Authentication

- Flag in the ADP/AEM Entity Descriptor `entity_capabilities` field indicates that in order for the AVDECC Controller to send ACMP commands to the AVDECC Entity it must first authenticate with the AEM AUTHENTICATE command
  - See IEEE 1722.1REV - ADP Changes for the flag
ACMP Status Codes

- ACMP_LISTENER_INVALID_CONNECTION
  - Code: 18
  - The AVDECC Listener is being asked to connect to something that it cannot listen to, e.g. it is being asked to listen to its own AVDECC Talker stream.

- ACMP_LISTENER_CAN_ONLY_LISTEN_ONCE
  - Code: 19
  - The AVDECC Listener is being asked to connect to a stream that is already connected to another one of its stream sinks and it’s only capable of listening on one of them.
Controller Directed ACMP

- AVDECC Controllers can now send DISCONNECT_TX_COMMAND directly to the talker so that it can remove a connection for an AVDECC Listener that has been removed from the network.

- Allow AVDECC Controller to send all ACMP TX commands directly to AVDECC Talkers which will allow multiple best effort VLANs.

- Add unicast transmission of ACMP messages to allow Controller to directly manage connections and connect across subnets.