IEEE P1722.1-REV New AECP AEM Commands

Ashley Butterworth
Apple Inc.
SUPPORTED_COMMANDS

- Bitmask of which commands are supported
- Can be queried to determine what commands are implemented
- Possibly use hierarchy of features
GET_PATH_LATENCY

- Returns the path_latency field value from the AUDIO_CLUSTER, VIDEO_CLUSTER and SENSOR_CUSTER descriptors
- Can be sent as an unsolicited response as part of a path change inside the unit.
GET/SET_SAMPLING_RATE_RANGE

- Sets or Gets the sampling rate range of a VIDEO_UNIT
CHANGE_STREAM_ENCRYPTION

- Tells the entity when to change the encryption key used to encrypt streaming traffic
- Provides a gPTP time which specifies when the new key is to start taking effect
**CHANGE_TRANSPORT_ENCRYPTION**

- Tells the entity when to change the encryption key used to encrypt AVDECC (and similar) messages
- Provides a gPTP time when the change should take effect.
GET_MSRP_TALKER_ATTRIBUTES

- Get the MSRP Talker Attributes that are being advertised on an interface
- Targets an AVB_INTERFACE
GET_MSRP_TALKER_FAILED_ATTRIBUTES

- Get the MSRP Talker Failed Attributes that are being advertised on an interface
- Targets an AVB_INTERFACE
GET_MSRP_LISTENER_ATTRIBUTES

- Get the MSRP Listener Attributes that are being advertised on an interface
- Targets an AVB_INTERFACE
GET_MSRP_DOMAIN_ATTRIBUTES

- Get the MSRP Domain Attributes that are being advertised on an interface
- Targets an AVB_INTERFACE
GET_MSRP_BANDWIDTH

- Get the outbound MSRP Bandwidth that is being used on a port
- Targets an AVB_INTERFACE
GET/SET_MAX_TRANSIT_TIME

- Sets the Max Transit Time that is used for a stream (used to change the latency of a stream)
- Targets a STREAM_OUTPUT
GET_COUNTERS_HISTORY

- Gets the number of seconds since the last time a counter was updated
- Matches the GET_COUNTERS command
GET_ACMP_RX_STATE

- The equivalent of an ACMP GET_RX_STATE command but sent via AECP
- Targets a STREAM_INPUT
GET_ACMP_TX_STATE

- The equivalent of an ACMP GET_TX_STATE command but sent via AECP
- Targets a STREAM_OUTPUT
GET_ACMP_TX_CONNECTIONS

- Almost equivalent of the ACMP GET_TX_CONNECTION command but will fetch multiple
- Targets a STREAM_OUTPUT