



Draft 14a Protocol Changes

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Draft Changes

- Protocol name changes
 - Simple has been replaced by AVDECC
 - SDP -> ADP
 - SCMP -> ACMP
 - SECP -> AECMP
- AVDECC-Msg changes

ADP

- boot_id -> announce_index
- Added fields
 - as_grandmaster_id
 - default_audio_format
 - default_video_format
 - association_id
- Announces occur at $\text{MAX}(1, \text{valid_time}/4)$

default_audio_format

- Define supported formats for non-enumeration setup
 - supported sample rates
 - maximum number of channels entity can accept
 - this can be much more than what it actually renders, e.g. a mono speaker may be able to accept a 8 channel stream and render one of these
 - channel formats supported

default_video_format

- The current or default video format to be used for new streams
- Unlike default_audio_format this only specifies one format

ACMP

- default_format
 - specifies the default_audio_format or default_video_format to use for the connection
- new status codes
 - errors for default_format

How default_format works

- Entities publish availability with ADP
- Controller discovers entities which it wants to connect
- Controller finds a common supported format
 - sample rates must match and must be able to handle channels
- Controller uses ACMP to connect entities with specified format

AACP

- Unicast not multicast
- AVDECC-Msg changes
 - Simplified protocol - Only one message payload per packet. No variable length fields.
 - Schema is smaller
 - Schema addresses contain more detailed data structures instead of individual values
 - Fewer "round trips" are needed for a controller to do initial required enumeration of an end station

AECP continued

- AVDECC-Msg changes continued
 - Schema Address format contains 3 levels of hierarchical containers, data structure type code and 3 dimensional indexing, and allows for vendor specific extensions.
 - Schema containers can contain control point description lists to allow for dynamic enumeration of media, stream, or device control points.
 - Controller description allows for many data types with min/max/step/default values and control point groups in arrays.

AECP continued

- Data Types declared
 - Media Formats Descriptor added, allowing for vendor extensions
 - Stream Formats Descriptor added, allowing for SDP payload, mime types, and vendor extensions as well as all supported 1722 packet formats
 - Media Source/Sink Types enumerations added
 - Codes for units for distance, frequency, level for use with control points added