AVDECC Entity Model Examples

Ashley Butterworth
Apple Inc.
Stephen’s Speaker

- 1 up-to 8 channel Stream In
- 1 captive speaker
- 48kHz, 96kHz, 192kHz 32 bit int, float and AM824 stream format
- Clock syncs to input stream
- Mute and Volume controls for speaker
Stephen’s Speaker

Entity

Configuration 0

Stream In 0 → Audio Map 0 → Audio Port In 0 → Audio Cluster 0 → Audio 0 → Control 1 (Volume) → Control 0 (Mute) → Ext Port Out 0 → Ext Jack Out 0

AVB Interface 0
Clock Source 0
Osedum’s Entity

- 1 stream in and 1 stream out
- 1 stereo input jack, 1 stereo output jack
- 48kHz, 96kHz, 192kHz 32 bit int, float and AM824 stream format
- Clock syncs to input stream
- Stereo output can be sourced from either input stream or input jack
Osedum’s Entity

Entity

Configuration 0

Stream In 0 → Audio Map 0 → Audio Port In 0 → Audio Cluster 0 → Audio Port Out 0 → Audio Map 1 → Stream Out 0

Ext Jack In 0 → Ext Port In 0 → Control 0 → Signal Selector 2 → Control 1 → Ext Port Out 0 → Ext Jack Out 0

AVB Interface 0 → Clock Source 0
Basic Microphone

- 1 stream out
- 1 captive mono microphone
- Mute control
- Clock source is internal crystal
- Only supports 48kHz AM824
- Identify Control
Basic Microphone

Entity

Configuration 0

Audio 0

Ext Jack In 0
Ext Port In 0
Control 0
Audio Port Out 0
Audio Cluster 0
Audio Map 0
Stream Out 0

AVB Interface 0
Clock Source 0
Optical SPDIF/ADAT Output

- 1 Stream in
- 1 SPDIF/ADAT optical out
- Supports 48kHz AM824 IEC60958
Optical SPDIF/ADAT Output

Entity

Configuration 0 - SPDIF

Configuration 1 - ADAT
Optical SPDIF/ADAT IO

- 1 Stream in, 1 Stream out
- 1 SPDIF/ADAT optical out, 1 SPDIF/ADAT optical in
- Supports 48kHz AM824 IEC60958
- Optical out clocked from input stream
- Optical out clocked from input SPDIF/ADAT
Interactive Example

- Lets walk through the process of creating an Entity