https://Routing.audio

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https://Ward-Beck.Systems

Transport
AES67 / ST 2110-30

Discover / Announce / Query
Ravenna / SAP / IS-O4

Control / Subscription
AES70 / Operator Web Gui
AES67-2013

Standard for audio applications of networks:
High-performance streaming audio
over-IP

Solution:

Provides the ability to interconnect entire systems and/or campuses
based on established network technology
From IP Showcase Theatre at IBC 2018

Curated by the Video Services Forum vsf.tv
SMPTE 2110-30 RX CONFORMANCE

- LEVEL A: 1ms, 1-8 CH
- LEVEL B: 0.125ms, 1-8 CH
- LEVEL C: 0.125ms, 1-64 CH
Session Description Protocol

v=0  (protocol version number, currently only 0)
o=- 2 0 IN IP4 192.168.110.178 (originator and session identifier : username, id, version number, network address)
s=WardBeck 32ME  (session name : mandatory with at least one UTF-8 encoded character)
t=0 0  (time the session is active)
a=.clock-domain:PTPv2 0  (attribute)
m=audio 50000 RTP/AVP 98  (media name and transport address)
c=IN IP4 239.30.178.1/1  (connection information/TTL)
a=rtpmap:98 L24/48000/8  (attribute)
a=recvonly  (attribute)
a=framecount:48  (attribute)
a=sync-time:0  (attribute)
a=petime:1  (attribute: Packet Time)
a=ts-refclk:ptp=IEEE1588-2008:EC-46-70-FE-00-8F-C8:0  (attribute)
a=mediaclk:direct=0  (attribute)
XLR.audio
Leveraging The Data

LAYOUT
ATSC 3.0
LIVE
IMMERSIVE
MIXING

Thinking Small
(3) 24” X 24” X 24”
+ (4) Laptops
POSITION
+
BEARING

AES70

LAYER.0.SWITCHING.AUDIO

TRUCK.MUSIC. IGMP.AUDIO

TRUCK.VIDEO. IGMP.audio

TRUCK.RF. IGMP.audio

BUILDING. IGMP.audio

AMBIENT. IGMP.AUDIO

FOH. IGMP.AUDIO

IMMERSIVE. IGMP.audio
SWITCHING.AUDIO

Leveraging Building Infrastructure
Resilient Execution
- Virtual Sound Card
- Virtual Machine
- 100 Chan Record
- Sync LTC.AES67

MONITORING
- SWITCH
- PORTS
- TRUNKS
- PTP
SDP OBJECT

WARD-BECK SYSTEMS

RAV 2 SAP

WARD-BECK SYSTEMS
Extended SDP

SDP: Common Language

a=OCA:1000:1.1.3:OcaBlock:0:1:BLK_Library=Library
a=OCA:1001::OcaLibrary:0:1e6:Application=222
a=OCA:1002::OcaLibrary:0:1e6:Preset=57575
a=OCA:1003::OcaLibrary:0:1e6:Microphone=23452345

a=OCA:10000:1.1.3:OcaBlock:0:5:preAMP 1=Kick Drum
a=OCA:10001:1.1.1.4:OcaSwitch:0:1:Phantom=1
a=OCA:10002:1.1.1.4:OcaSwitch:0:1:Phase_Invert=0
a=OCA:10003:1.1.1.4:OcaSwitch:0:1:Input(MIC/LINE)=0
a=OCA:10005:1.1.1.5:OcaGain:0:63:Pre Amp Gain=45
a=OCA:10100:1.1.3:OcaBlock:0:3:DSP Input 1=2
a=OCA:10101:1.1.1.4:OcaSwitch:0:1:HPF Enable=1

Thank You

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