AUDIO & VIDEO OVER IP

IP Media Experience (IPMX) by AIMS

JPEG

- Addresses ProAV-industry needs
 - ➤ Move to IP networks
 - ► Interoperability for AV over IP
- Uses set of open standards
 - Uncompressed video:
 ST 2110-20 uses RFC 4175
 (RTP Payload Format for Uncompressed Video)
 - Compressed CBR video:
 ST 2110-22 in accordance with RFC 4855
- VSF working on TR-08: Transport of JPEG
 XS video in ST2110-22

Need new RFC: RTP Payload for JPEG XS

Proposed AIMS ProAV Roadmap – February 2020

Audio over IP	Standardized Transport of Audio, Video, & ANC Elements	ProAV Standards & Specifications	
AES67 Audio Over IP	SMPTE ST 2110-10 Timing & Definitions SMPTE ST 2110-20 Uncompressed Video SMPTE ST 2110-21 Packet Pacing SMPTE ST 2110-30 AES67 Audio SMPTE ST 2110-31 AES3 Audio Transport SMPTE ST 2110-40 Ancillary Data	SMPTE ST 2110-22 CBR Compression in ST 2110 ISO/IEC 21122 JPEG XS Codec NMOS IS-04 & IS-05 Discovery, registration & connection management EDID / DisplayID / HPD Support*	Copy protection General Purpose I/O* IR Remotes, GPIO, USB, RS232 over IP NMOS IS-08* Audio channel mapping IPv6* Network addressing Security* Authentication, Encryption
AES67	SMPTE ST 2110	IP MEDIA EXPERIENCE	
		Required	Optional

* not ratified yet by AIMS, and therefore proposed roadmap additions





RTP PAYLOAD FOR JPEG XS (ISO/IEC 21122)

Need for RFC



JPEG XS

- Cost efficient, interoperable, bandwidth saving, low latency and low complexity video compression
- Can be used wherever uncompressed video is used

RTP Payload for JPEG XS

- Cooperation of intoPIX, Fraunhofer IIS and UCL
- Supported by AIMS, VSF, SMPTE
 - Work on VSF TR-08 has started
- Currently as draft-ietf-payload-rtp-jpegxs
- Based on similar RTP Payload RFC's



