

webinar

WITH IABM

Video over IP – WTF?

📅 **Tuesday 14 July**
🕒 **9:30am ET / 2:30pm BST**



Stan Moote - Chair
CTO



Marc Risby
CTO



Karl Paulsen
CTO



Dennis Breckenridge
CEO



Andrew Starks
Director of Product Management



IPMX: A Profile for Pro AV

Andrew Starks, Macnica Americas

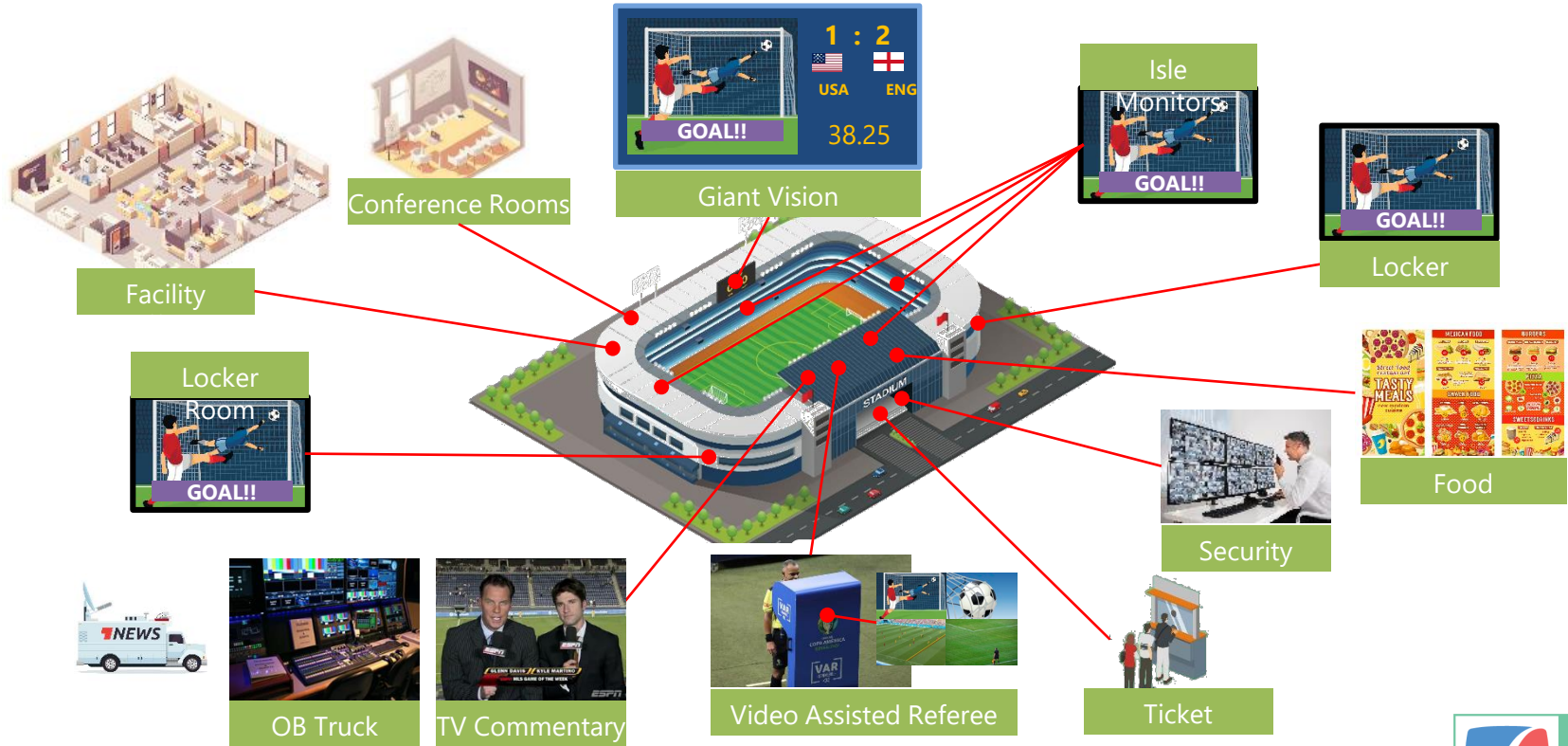




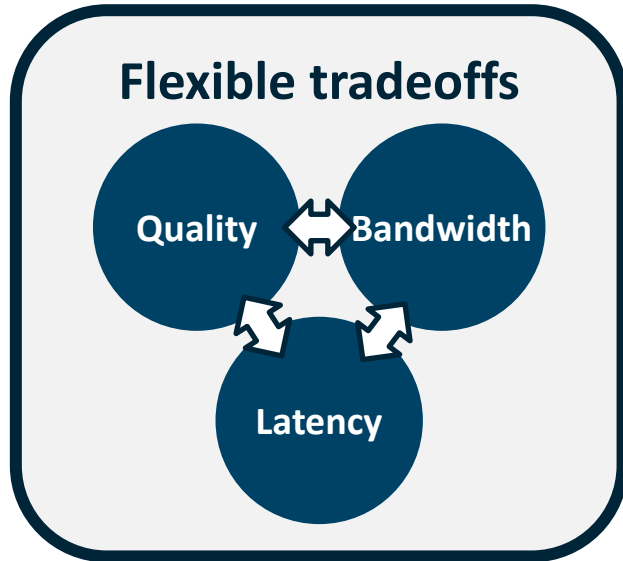
IPMX (Internet Protocol for Media Experience) is a set of **open standards and specifications** to enable the carriage of **compressed** and **uncompressed** video, audio and data over IP networks.

It includes provisions for **control**, **copy protection**, **connection management** and **security**

We're all just video again...



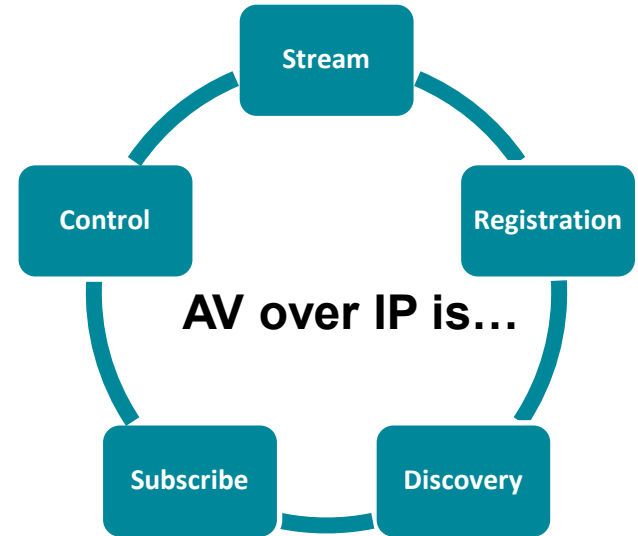
What is needed for AV over IP for Pro AV?



What is Meant by AV over IP?

- Move streams (audio, video, ancillary, control) through an IP network
- Synchronized (A <-> V and also different sources)
- Low-Latency (<1 Frame)
- Publish, Discover, Subscribe, Stream and Control

Could be used in place of HDMI or DisplayPort



ST 2110 and NMOS

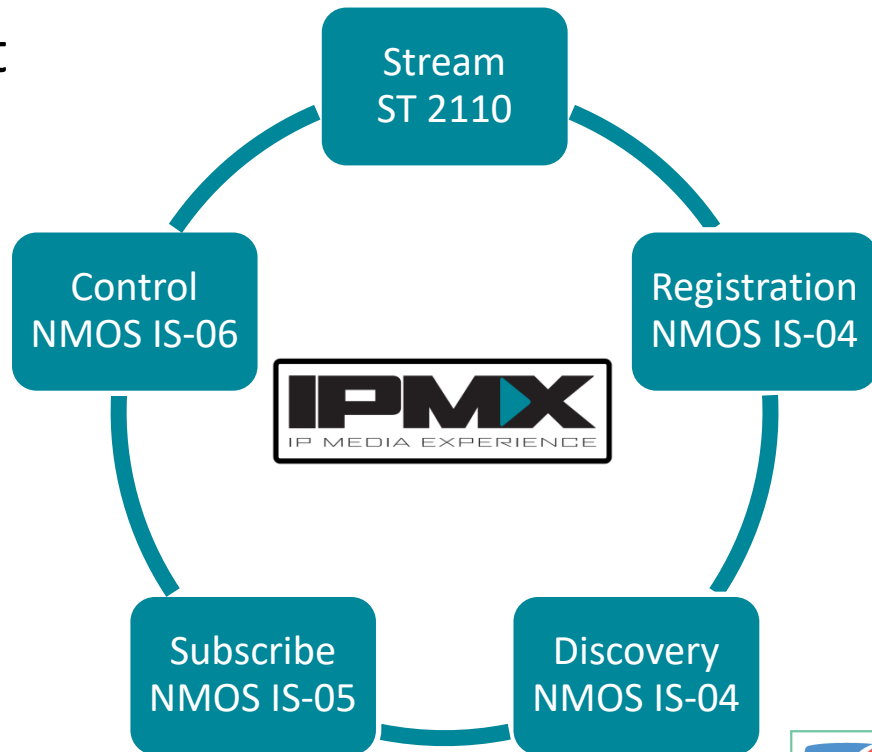
- SMPTE ST 2110 - Transport

- Essence Streams
- Timing
- Description

- NMOS

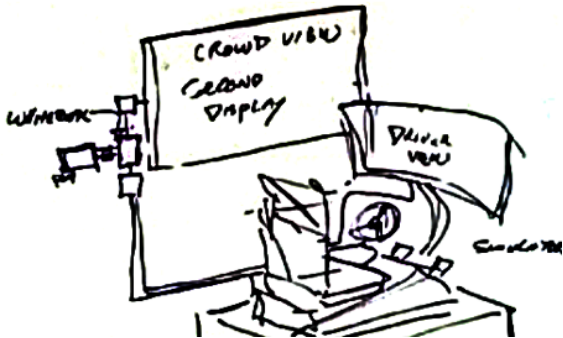
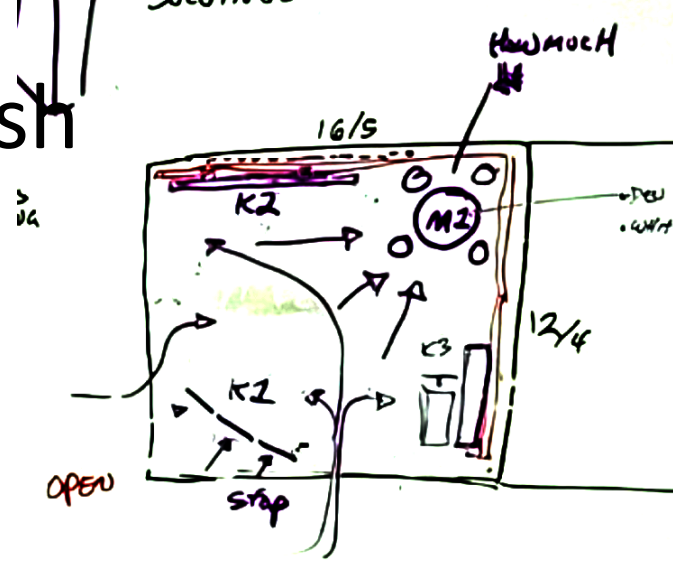
(Networked Media Open Specification)

- Registration
- Discovery
- Subscribe
- Control



ISE 2020: The Push

- AIMS Pro AV Working Group...
 - Created name for ST 2110, NMOS, etc: IPMX (IP Media Experience)
 - Created ISE 2020 marketing campaign
 - Recruited motivated members to push a roadmap proposal through AIMS in time for ISE 2020



IPMX Draft Roadmap

Audio over IP	Standardized Transport of Audio, Video, & ANC Elements	ProAV Standards & Specifications	
<p>AES67 Audio Over IP</p>	<p>SMPTE ST 2110-10 Timing & Definitions</p> <p>SMPTE ST 2110-20 Uncompressed Video</p> <p>SMPTE ST 2110-21 Packet Pacing</p> <p>SMPTE ST 2110-30 AES67 Audio</p> <p>SMPTE ST 2110-31 AES3 Compressed Audio</p> <p>SMPTE ST 2110-40 Ancillary Data</p>	<p>SMPTE ST 2059 Timing Synchronization</p> <p>SMPTE 2110-22 JPEG-XS Video Compression</p> <p>SMPTE ST 2110-41 EDID/DisplayIP/HPD</p> <p>AMWA NMOS IS-04 & IS-05 Discovery, registration & connection management</p>	<p>AAC Audio Compression</p> <p>HDCP Copy protection</p> <p>General Purpose I/O IR Remotes, GPIO, USB, RS232 over IP</p> <p>AMWA NMOS IS-08 Audio channel mapping</p> <p>IPv4 & IPv6 Network addressing</p> <p>Security Authentication, Encryption</p>



Required

Optional

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