SMPTSE ST 2110

FUNDAMENTALS

WHAT IS IT?

ST 2110 is a groundbreaking suite of standards for IP transport in media workflows. Designed to break apart video, audio and ancillary data into separate streams, ST 2110 enables truly flexible IP-based workflows for real-time production, playout and other professional media applications.

With ST 2110, manufacturers can create products that work together seamlessly and ensure the interoperability that media companies need to make a smooth transition from SDI to IP.

THE SMPTSE ST 2110 SUITE

- **2110 for Video (ST 2110-20/21)** Transports uncompressed video and prevents high-bitrate video streams from causing congestion in IP network "pipes".
- **2110 for Audio (ST 2110-30/31)** Transports uncompressed PCM and compressed AES3 audio over IP networks.
- **2110 for Ancillary Data (ST 2110-40)** Transports uncompressed PCM and compressed/uncompressed AES3 audio over IP networks.
- **2110 for System Timing (ST 2110-10)** Synchronizes multiple media types at any point during the broadcast chain.

REAL-WORLD ROLLOUT

SAMPLING OF GLOBAL ST 2110 DEPLOYMENTS

200+ installations have been successfully deployed using SMPTE ST 2110 and IP technologies.

BUSINESS BENEFITS

- **Economical IP Transport**
- **Format Agnostic**
- **Streamlined Deployment with NMOS**
- **Flexible Workflows**
- **Maximum Efficiency**
- **Assured Interoperability**
- **Reduced Bandwidth**

APPLICATIONS

- **Film/Broadcast/OTT production & postproduction**
- **Theme parks (show control, image, & sound)**
- **Museums (large audio/video displays)**
- **Digital advertising**
- **Media research**
- **Live event production**
- **Digital release production & postproduction**
- **Primary distribution**

WHAT’S NMOS GOT TO DO WITH IT?

The Network Media Open Specifications (NMOS), developed by the Advanced Media Workflow Association (AMWA), make a 2110-based infrastructure manageable.

The specifications describe how devices on a network can detect each other and available streams.

And make it easier to build IP production facilities by automating configuration of device connectivity in all environments.

Sources:
1. SMPTE “TVB Europe: AIMS interview. Sept 2018.”
2. Source: Net Insight, "What is SMPTE 2110 and NMOS all about?"