Total SMPTE 2110 for engineers Training

Duration: **5 Day**

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This practical hands on course provides a comprehensive introduction to ***SMPTE ST 2110*** and its role in modern IP based media systems.

The course covers uncompressed video, Audio-over-IP, and ancillary data as separate essences, with comparisons to compressed workflows via ST 2110-22.

Participants will explore key standards including **ST 2110-10 to -60**, **PTP**-based timing and synchronisation, QoS, **multicast delivery**, and AMWA NMOS (IS-04 to IS-10) with recommended practices.

Each module is reinforced with *hands-on* labs involving packet analysis, stream inspection, and protocol troubleshooting.

Prerequisites

Good TCP/IP knowledge on key areas such as the OSI 7-layer model, encapsulation, how IP routers work and IP addressing.

A good suggested course for getting this knowledge is TCP/IP foundation for engineers

What You Will Learn

By the end of the course delegates will be able to:

- Explain how ST-2110 transports video, audio and data over IP.
- Analyse essence flows with Wireshark.
- Troubleshoot and test multicast networks.
- Explain the role of PTP in ST 2110.
- Compare uncompressed and compressed workflows including ST 2110-22.
- Use AMWA NMOS to discover, register and connect ST 2110 devices.