SMPTE ST 2110 FUNDAMENTALS

WHAT IS IT?

SMPTE 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 SMPTE 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)

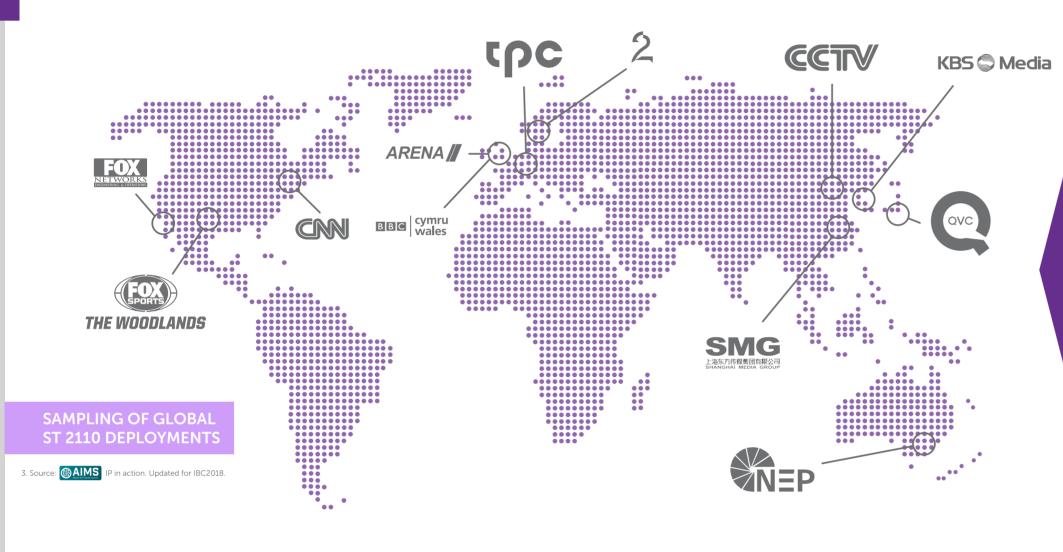
Transports uncompressed PCM and compressed/ uncompressed AES3 audio over IP networks



2110 for System Timing (ST 2110-10)

Synchronizes multiple media types at any point along the broadcast chain

REAL-WORLD ROLLOUT



200+
installations

have been successfully deployed using SMPTE ST 2110 and its predecessor, SMPTE ST 2022-61

BUSINESS BENEFITS

Flexible Workflows

Route and work on video, audio and data streams independently



distribution of dedicated workflows



Use bandwidth more efficiently when transporting uncompressed video

Future-proof Investment

Maximize infrastructure lifespan with format-agnostic technology

Assured Interoperability

Simplify deployment of multi-vendor IP solutions



APPLICATIONS



Film/Broadcast/OTT production & postproduction



Museums (large audio/video displays)



Media research



Theme parks (show control, image, & sound)



Digital advertising



Contribution



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.

