THE MISSION OF THE SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS is to drive the quality and evolution of motion pictures, television, and professional media through our global society of technologists, developers, and creatives by setting industry standards, providing relevant education, and fostering an engaged membership community.
SMPTE’s global membership today includes more than 7,000 members: motion-imaging executives, creatives, technologists, researchers, and students who volunteer their time and expertise to the Society’s standards development and educational initiatives.
SMPTE ST 2110
PROFESSIONAL MEDIA OVER MANAGED IP NETWORKS SUITE OF STANDARDS

SMPTE ST 2110-10/11-30
Addressing system concerns and uncompressed video and audio streams

SMPTE ST 2110-21
Specifying traffic shaping and delivery timing of the uncompressed video

SMPTE ST 2110-31
Specifies the real-time, RTP-based transport of AES3 signals over IP networks, referenced to a network reference clock

SMPTE ST 2110-40
Maps ancillary data packets into RTP packets that are transported via UDP/IP and enables those packets to be moved synchronously with associated video and audio essence streams

SMPTE ST 2110 IS A MAJOR CONTRIBUTING FACTOR IN THE MOVEMENT TOWARD ONE COMMON INTERNET PROTOCOL (IP)-BASED MECHANISM FOR THE PROFESSIONAL MEDIA INDUSTRIES
ADOPTION OF SMPTE ST 2110

PROFESSIONAL MEDIA OVER MANAGED IP NETWORKS SUITE OF STANDARDS

The impact goes beyond just replacing serial digital interface (SDI) with IP to the concept of having the flexibility to come up with a whole new set of applications based on, and leveraged off, information technology (IT) protocols and infrastructure.

The advantages of shifting to IP are comparable to those achieved when the industry moved from physical tapes to virtual files for content storage. Files were not treated as if they were just virtual tapes; rather, all the benefits of software and virtualized access have come to be realized with new workflows and functionality offered.
ADOPTION OF SMPTE ST 2110

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Another advantage is that intra-facility traffic now can be all-IP. Thus, rather than requiring two separate sets of switches — SDI switches for professional media and IP/Ethernet switches for general data — facilities can rely on one common data center infrastructure.

Most operators will continue to separate traffic by priority; however, the newer switches do have the intelligence to prioritize real-time media streams.