

2110 Basics

What is 2110?

2110 is a replacement for SDI that transports uncompressed video over IP networks.

Is it like NDI?

In that it is video over IP, yes, but in many ways no. 2110 is a SMPTE specification for uncompressed video, NDI is a proprietary protocol that compresses video. 2110 is designed for use with 10G network links or greater, whereas NDI must compress your video streams down to less than 1G of bandwidth.

Term Explanations

Traffic Shaping

- Senders/receivers
- Wide, narrow
- Synchronous, Asynchronous

Hitless merges

NMOS

IS-04 Registration

- mDNS/DNS-SD

IS-05 Connection management

IGMP v2 vs v3

PTP v2

Multicast

Audio Conformance Levels

<https://www.ravenna-network.com/smp-te-st-2110-and-audio/>

SSM vs ASM

ASM stands for Any-Source Multicast, and SSM, the preferred option for 2110, stands for Source-specific Multicast. With ASM the multicast client doesn't know the multicast sender's unicast address (source), only the multicast group IP's address.

With SSM, the multicast client can specify which multicast sender's unicast address (source) in the multicast group it wants without having to discover them as it has to with ASM.

<https://docs.ruckuswireless.com/fastiron/08.0.60/fastiron-08060-ipmulticastguide/GUID-90A4D045-734C-4CAD-A0D0-59A7C40FB83E.html>

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