

Signal Contribution using JPEG-2000 or JPEG-XS

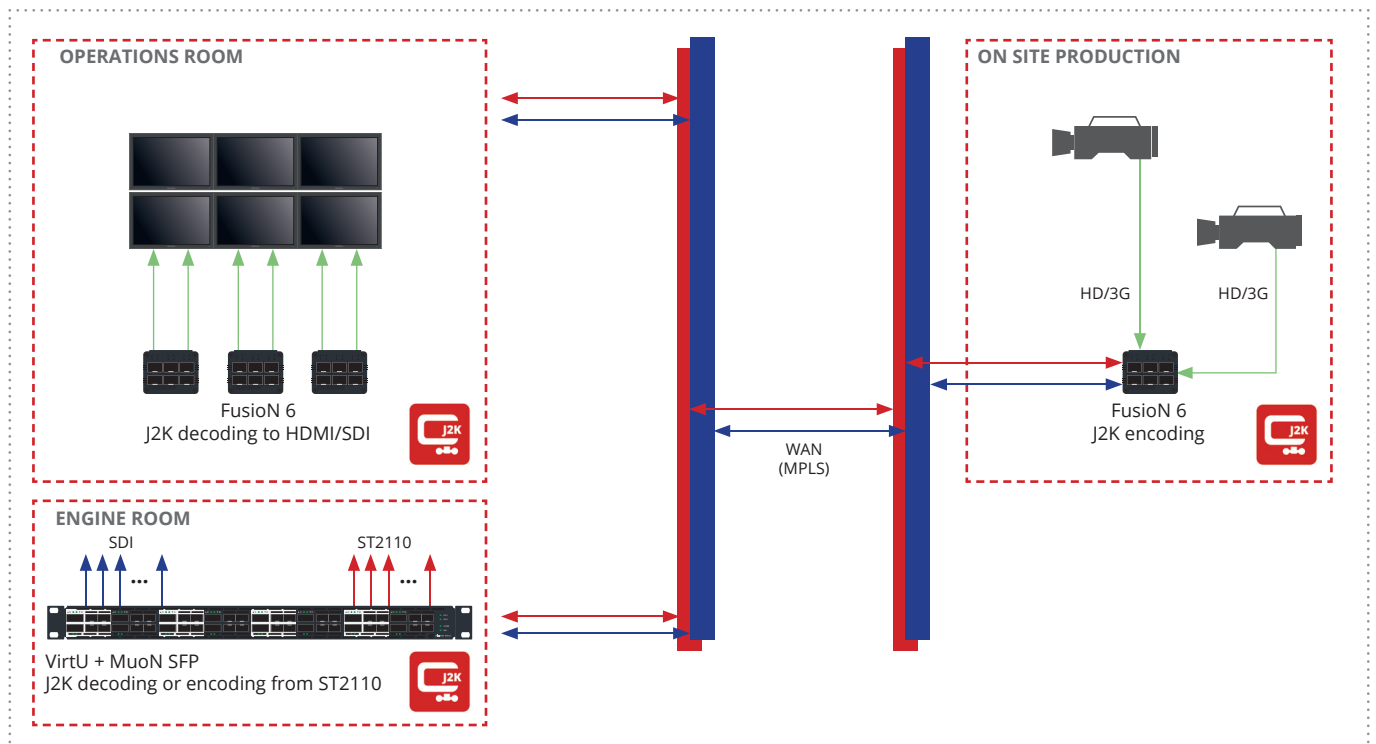
Starring: MuoN and FusioN Products

Riedel enables the transmission of feeds between different locations for contribution or for live remote production with the introduction of its JPEG-2000 and JPEG-XS encode/decode solution, processed inside MuoN SFP miniature pluggable devices. This product establishes the mark by combining the gateway conversion to or from IP ST2110 with the encoding and decoding, while also providing SDI connectivity. The ultra-compact Riedel solution is available inside the VirtU 32 1RU Media HUB chassis or via the miniature standalone FusioN frames.

Key Benefits:

- Highest density on the market; 64 encode/decode within a single RU
- Agile & repurposable software-defined hardware
- Support of JPEG-XS or JPEG-2000 CODECS
- Provides ST2110 and SDI I/Os
- Fully configurable compression scheme & bitrates including lossless compression
- Fast and lossless transmission

Remote Production Solution



FusionN

Redefined JPEG-2000 and JPEG-XS encode/decode

Riedel empowers its miniature SFP and standalone box design to offer a targeted solution for remote production applications. The product makes no compromises on functionality and uses the most compatible core implementation by INTOPIX.

Encoding applications:

- Provides SDI and ST2110 connectivity simultaneously
- In-band control via RESTful and Ember+ protocols
- Dual10GE NIC Ethernet for JPEG-2000 (ST2022-2) and ST2110
- Supports ST2022-7 (Class A)
- Lossless picture quality
- Integrated frame synchronizer
- YUV - 4:2:2 - 10 Bits

JPEG-2000:

- JTNM TR01 2018 TS transport
- Low latency of 3 frames (encode/decode)
- HD/3G formats
- Accurate alignment of Audio, video and ANC essences
- Selectable from 150 up to 500Mbps bitrates

JPEG-XS:

- ST2110-22 transport
- Ultra-low latency with 20 lines (encode/decode)
- HD, 3G and UHD formats
- Selectable from 150 up to 20000Mbps bitrates

Application targeted design

VirtU Media Processing Hub



Installed in your core system using MuoN SFP inside VirtU infrastructure and processing frame

MuoN SFP
Dual channel
SDI/IP ST2110 to J2K encoder

MuoN SFP
Dual channel
J2K decoder to SDI/IP ST2110



Installed near your cameras or at the back of your monitor using FusionN miniature and quiet standalone converter.

FusionN 6
Dual channel
12k decoder or decoder to ST2110
+ selectable HDMI or SDI I/Os