

Neveion adds JPEG XS video compression to Virtuoso media node

New media function in world-first deployment

Oslo, Norway, 14 August 2019 – [Neveion](#), award-winning provider of virtualized media production solutions, announced today that it has added a new JPEG XS encoding and decoding media function to its flagship software-defined media node, [Neveion Virtuoso](#). The new functionality is already being rolled-out by a leading global broadcast network to get video in and out of content hubs, as part of a centralized live production infrastructure solution – the world’s first official deployment of the technology.

[JPEG XS \(ISO/IEC 21122\)](#) is a new encoding standard for video that achieves pristine visually lossless output (both for one-time and multiple concatenated compression), at sub-millisecond latency, i.e. a fraction of a video frame. High quality compression is achievable with ratios up to 10:1 and beyond, depending on the application. This makes JPEG XS extremely attractive for low latency real-time transport of HD and 4K/UHD video over wide-area networks (WANs). It also makes it suitable for bandwidth-constrained campus and facility local area networks (LANs) when uncompressed transport is not a viable option.

The [Neveion Virtuoso JPEG XS media function](#) is powered by [TICO-XS](#) from [intoPIX](#) and offers both encoding and decoding capabilities, and multi-channel support. It takes uncompressed video in either SDI and IP (SMPTE ST 2110-20) formats, and outputs JPEG XS encoded video for transport over IP (SMPTE ST 2110-22). The solution also provides transport protection using SMPTE 2022-7 based SIPS (Seamless IP Protection Switching).

The JPEG XS media function can also be combined with the Virtuoso’s extensive audio capabilities, for example to enable encoded video and audio to be transported as separate SMPTE ST 2110 flows, and be synchronized at the receiving end.

“We are very excited to have added JPEG XS to the many media functions that can be configured dynamically on Neveion Virtuoso,” says Johnny Dolvik, Chief Product and Development Officer at Neveion. “We are also very proud of the fact that it is already being deployed. We have no doubt this is the first of many deployments, as JPEG XS provides an exceptional balance between compression ratio and latency.”

As well as JPEG XS, Neveion Virtuoso already offers JPEG 2000, TICO, and H.264 encoding capabilities.

Neveion Virtuoso and the new JPEG XS media function will be on show on [Neveion’s booth at IBC 2019, 13-17 September, Amsterdam \(The Netherlands\)](#).

About Nevion

As the architect of virtualized media production, Nevion provides media network and broadcast infrastructure solutions to broadcasters, telecommunication service providers, government agencies and other industries. Increasingly based on IP, virtualization and Cloud technology, Nevion's solutions enable the management, transport and processing of professional-quality video, audio and data – in real time, reliably and securely. From content production to distribution, Nevion solutions are used to power major sporting and live events across the globe. Some of the world's largest media groups and telecom service providers use Nevion technology, including AT&T, NBC Universal, Sinclair Broadcast Group Inc., NASA, Arqiva, BBC, CCTV, EBU, BT, TDF and Telefonica.

For more information please visit www.nevion.com. Follow Nevion on Twitter @nevioncorp

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