

ISO/IEC JTC 1/SC 29**Coding of audio, picture, multimedia and hypermedia information****Secretariat: JISC (Japan)**

Document type:	Outgoing Liaison Statement
Title:	Liaison Statement from SC 29/WG 1 to 3GPP on JPEG XS [SC 29/WG 1 N 84031]
Status:	In accordance with Recommendation 63 at the 84th WG 1 Meeting, 2019-07-13/19, Brussels, Belgium, the SC 29 Secretariat forwarded this liaison statement to 3GPP. [Requested action: For SC 29's information]
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**INTERNATIONAL ORGANISATION FOR STANDARDISATION
ORGANISATION INTERNATIONALE DE NORMALISATION**

**ISO/IEC JTC 1/SC 29/WG1
(ITU-T SG16)**

Coding of Still Pictures

JBIG

Joint Bi-level Image
Experts Group

JPEG

Joint Photographic
Experts Group

TITLE: Liaison letter from WG1 to 3GPP on JPEG XS

SOURCE: JPEG (ISO/IEC JTC 1/SC 29/WG1)

PROJECT: ISO/IEC 21122 (JPEG XS)

STATUS: FINAL

**REQUESTED
ACTION:** SC 29 for distribution

DISTRIBUTION: 3GPP

Contact:

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JPEG would like to make your Organization aware of the status of our project called JPEG XS.

JPEG XS standardizes a visually lossless low-latency and lightweight compression scheme that can be used as a mezzanine codec within any AV market. Among the targeted use cases are video transport over professional video links (SDI, IP, Ethernet), real-time video storage, memory buffers, 360 video capture and rendering, head mounted display for virtual reality and augmented reality (VR/AR), as well as sensor compression (for example in cameras and in the automotive industry). The use cases and requirements are further described on the jpeg.org website [1].

Upcoming 5G infrastructures could benefit from such lightweight compression scheme and JPEG invites 3GPP to provide any additional information on use cases and requirements related to 5G video transport.

The Core Coding System allows for visually lossless quality at moderate compression rates, scalable end-to-end latency ranging from less than a line to a few lines and low complexity real time implementations in ASIC, FPGA, CPU and GPU. Beside the Core Coding System, Profiles and levels (addressing specific application fields and use cases), together with the transport and container formats (defining different means to store and transport JPEG XS codestreams in files, over IP networks or SDI infrastructures) are also being specified.

The JPEG committee is pleased to announce significant milestones of the JPEG XS project, with the Core Coding System (aka Part-1) and Profiles and Buffer Models (aka Part-2) published on ISO website. A new Amendment is also being prepared that extends capabilities of the Core Coding System towards efficient RAW Bayer compression.

A white paper to introduce this new family of standards is publicly available on the jpeg.org website [2].

The JPEG committee looks forward to a continued collaboration and exchange of information with your organization.

[1] <https://jpeg.org/downloads/jpegxs/wg1n78028.pdf>

[2] <https://jpeg.org/static/whitepapers/jpeg-xs-whitepaper.pdf>