



ISO/IEC JTC 1/SC 29 "Coding of audio, picture, multimedia and hypermedia information"

Secretariat: JISC

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Liaison statement from SC 29/WG 1 to 3GPP SA 4 on JPEG XE and JPEG AI [SC 29/WG 1 N 100685]

Document type	Related content	Document date	Expected action
Project / Other		2023-11-11	INFO

Description

In accordance with Recommendation 81 at the 101st WG 1 Meeting, 2023-10-30/11-03, Virtual, the SC 29 Secretariat sends this liaison statement to 3GPP SA 4. [Requested action: For SC 29's information]



**INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
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 to 3GPP SA4 on JPEG XE and JPEG AI

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

PROJECT: -

STATUS: Final

**REQUESTED
ACTION:** SC29 to distribute

DISTRIBUTION: 3GPP SA4

Contact:

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The JPEG Committee would like to inform 3GPP SA4 that it has started an exploration activity on Event-based Vision, called JPEG XE. The scope of JPEG XE is the creation and development of a standard to represent events generated by event sensors in an efficient way allowing interoperability between sensing, storage, and processing, targeting machine vision and other relevant applications. After an initial phase of definition of terminologies and concepts, this exploration activity is currently working on the use cases and requirements.

After organizing a successful workshop on the topic of event-based vision and its applications, a use cases and requirements document for JPEG XE has been released along with a series of exploration experiments that will serve defining evaluation methodologies and assessing the state of the art in event-based vision and in particular coding of events.

Furthermore, the JPEG Committee has issued a Committee Draft of the first version of its AI based standard, JPEG AI, that aims at applications involving humans and machines. The JPEG Committee has planned for a second version of JPEG AI starting 2024 when version 1 becomes close to be published as the first learning based international standard for image coding. We believe that JPEG AI will be very relevant to 3GPP SA4 as a potential technology to use. The JPEG Committee is available to provide additional details about JPEG AI, its use cases and requirements and the current technology standardised in version 1, in addition to the road map for version 2 in case of interest by 3GPP SA4.

The JPEG Committee looks forward to a fruitful collaboration with 3GPP SA4.

Further information about JPEG and its projects can be found on the JPEG Committee website: <https://jpeg.org/>