



## ISO/IEC JTC 1/SC 29

**Coding of audio, picture, multimedia and hypermedia information**

**Secretariat: JISC (Japan)**

<b>Document type:</b>	Outgoing Liaison Statement
<b>Title:</b>	Liaison Statement from SC 29/WG 1 to 3GPP SA WG 4 on JPEG Pleno Point Cloud Coding [SC 29/WG 1 N 88046]
<b>Status:</b>	In accordance with Recommendation 57 at the 88th WG 1 Meeting, 2020-07-07/10 Online, the SC 29 Secretariat sends this liaison statement to VESA. [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 to 3GPP SA WG4 on JPEG Pleno Point Cloud Coding

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

**PROJECT:** JPEG Pleno

**STATUS:** -

**REQUESTED**

**ACTION:** SC29 to distribute

**DISTRIBUTION:** 3GPP SA WG4

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The JPEG Committee would like to make 3GPP SA WG4 aware of JPEG Pleno Point Cloud Coding, an ongoing activity on static point cloud coding. JPEG Pleno is working towards the integration of various modalities of plenoptic content under a single and seamless framework. Efficient and powerful point cloud representation is a key feature within this vision together with representation of light fields and holography. Point cloud data supports a wide range of applications including computer-aided manufacturing, entertainment, cultural heritage preservation, scientific research and advanced sensing and analysis. Following an investigation into use cases and requirements for this activity, the JPEG Committee has identified scalability and random access as crucial requirements for point cloud codecs to facilitate many of the emerging applications of plenoptic content collection, processing and visualisation. Therefore, the JPEG Committee is particularly focused on efficient point cloud codecs for static point cloud content supporting scalability and random access.

During the 86th JPEG meeting, the JPEG Committee released a First Call for Evidence on JPEG Pleno Point Cloud Coding that focuses specifically on point cloud coding solutions supporting scalability and random access of decoded point clouds. This was followed by a Second Call for Evidence on JPEG Pleno Point Cloud Coding with a revised timeline reflecting changes in the activity due to the 2020 COVID-19 Pandemic. A Final Call for Evidence on JPEG Pleno Point Cloud Coding was released in July 2020. The JPEG Committee invites 3GPP SA WG4 experts interested in point cloud coding to take part in the above activity and consider responding to the above call for evidence, which is the first formal step toward standardization of JPEG Point Cloud Coding.

Further information may be found on the JPEG Committee website:

<https://jpeg.org/>