**3GPP TSG-WG SA4 Meeting #131-bis-e *S4-250586***

**Online, 11th – 17th April, 2024**

Title: LS to SC29 WG1 on JPEG AI Standard an FS AI4 Media

**Response to: S4-250247, ISO/IEC JTC 1/SC 29 N 22565**

Release: Release 19

Work Item: FS\_AI4Media

Source: Huawei [To Be 3GPP SA WG4]

To: SC29 WG1

Cc:

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Attachments: none

**1. Overall Description:**

3GPP SA4 thanks ISO/IEC SC29 WG 1 for the update and information on completion of the JPEG AI standard.

SA4 has included a reference and a short description of the JPEG AI standard in TR 26.927, a technical report under development by 3GPP SA4 that explores media-based AI/ML use cases, AI/ML model compression and delivery as well as mapping of logical AI functions to the 5G architecture.

In this report, 3GPP SA4 has studied different functional architectures, namely:

* Split inference where model inference is distributed between the UE and the network
* Transmission of (compressed) AI/ML models
* Distributed/Federated learning over the 5G System

3GPP SA4 kindly asks ISO/IEC SC29 WG 1 to keep updating SA4 on its developments and provide feedback on the relevance of the SA4 activity to ISO/IEC SC29 WG 1.

3GPP SA4 kindly asks ISO/IEC SC29 WG 1 to consider the use cases mentioned in this study.

**2. Actions:**

**ACTION:** SA4 asks SC29 WG1 to take the above into account and provide feedback if any, especially regarding implementation of mentioned use cases using JPEG AI.

**3. Date of Next TSG SA WG4 Meetings:**

TSG-SA4 Meeting #132 19th – 23st May, 2025 Fukuoka, Japan

TSG-SA4 Meeting #133-e 21th – 25th July, 2025 Online