**3GPP TSG SA WG4#129-e Tdoc S4-241750**

Online, 19-23 August 2024

3GPP TSG SA Plenary #105 Tdoc SP-24xxxx

Melbourne, Australia, 10-13 September 2024

**Title: Presentation of Report to TSG:**

**TR 26.8xx, Version 1.0.0**

**Source: SA WG4**

**Document for: Approval**

**Abstract of document:**

The report provides a preliminary analysis of the performance and the potential benefits of film grain synthesis technologies for video compression.

New content that could be used for the purpose of evaluating film grain synthesis technologies is documented together with associated content characteristics related to film grain. The report also describes a film grain synthesis tool, which focuses on one film grain synthesis technology, i.e. the film grain characteristics (FGC) SEI message supported by HEVC. The report also documents some suggestions on how to achieve interoperability using the FGC SEI message and some preliminary test results conducted by 3GPP.

NOTE: During the study, it was observed a dependency with a similar ongoing work happening in the Joint Video Exploratory Team - JVET (Joint effort between ISO/IEC and ITU-T) on performance evaluation aspects. It was then decided to document the work done so far into a technical report and close the study until significant progress is shown. This is the reason why, exceptionnally, this report is directly presented for approval.

**Changes since last presentation to SA Meeting:**

First presentation to SA.

**Outstanding Issues:**

None.

**Contentious Issues:**

None.

Change history of this document:

1999-11-17: original issue

2007-09-06: removal of references to Working Groups; bring names of TSGs up to date; correction of typo

2015-01-06: adds tdoc header & removes redundant information below