3GPP TSG SA WG4#116-e meeting TDoc S4-211556

Online, 10th – 19th November 2021

**Title: [DRAFT] Reply LS on VVC**

**Response to: S4-211472**

**Release: 17**

**Work Item: 8K\_TV\_5G, FS\_5GVideo**

**Source: 3GPP TSG SA WG4 (SA4)**

**To: ATSC**

**Cc:**

**Contact person: Thomas Stockhammer (8K\_TV\_5G and FS\_5GVideo Rapporteur)**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:**

* [TR 26.955](https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3741): Latest version can be downloaded.
* S4-21XXXX: Draft CR 26.116 on 8K HEVC
* S4-21YYYY: Draft CR 26.955 on 8K-TV scenario

# 1 Overall description

3GPP TSG SA WG4 (SA4) would like to thank ATSC for your Liaison Statement regarding your interest of our video codec work. We highly appreciate ATSC’s interest to align standards and specifications across organizations where possible, to facilitate worldwide market adoption.

In our Rel-17 efforts, expected to be completed by March 2022, 3GPP SA4 has the following ongoing work that may be of particular interest for you:

1. Work Item on “8K Television over 5G”. As reported earlier, the work item asks to communicate with relevant organizations including MPEG, CTA WAVE, DVB, SCTE and ATSC to develop a CMAF profile for 8K HEVC. 3GPP SA4 meanwhile created a draft CR as attached in S4-21XXXX. Before completing the work during SA4#117-e in February 2021, we will study the latest development in MPEG and DVB to align our specifications. Any comments from your side are welcome.
2. Study Item on “5G Video Characterization”. In the context of this work, we analyze the performance of existing 3GPP video codecs in 5G service environments and expect to provide some initial indications whether any new video codec may provide beneficial upgrades to these services. For the purpose of this work, significant amount of anchor and test material is generated and hosted publicly. All details are documented in TR 26.955. While no normative work is foreseen in Rel-17, the conclusions of this study may result in normative work on new video codecs, for example also VVC, in Rel-18. However, such work would only start after SA4#117-e, i.e. after February 2022. Collaboration with ATSC and other interested parties in global alignment in this area for 3GPP relevant codecs would be most welcome.

With respect to your question: “*ATSC would appreciate learning more about target use cases, capabilities/features and constraints on VVC, if it is selected by SA4”* the following information may be of interest for you:

1. The five scenarios developed in TR26.955 as part of the FS\_5GVideo Study Item.
2. A new scenario 8K-TV developed as part of the 8K\_TV\_5G work item. A draft CR on this matter is attached in S4-21YYYY.

SA4 is currently planning the work and study items for Rel-18 and expect to have a comprehensive roadmap by SA4#117e in February 2022. We look forward to a fruitful collaboration on common objectives around video delivery.

# 2 Actions

**ACTION:**

**To ATSC:**

We kindly ask to take the above information into account for your future work and provide feedback as appropriate.

# 3 Dates of next TSG SA WG 4 meetings

3GPP SA4#117 14 – 23 February 2022, Online