**3GPP TSG SA WG4 Meeting 132S4-250798**

**Fukuoka, JP, 19 - 23 May 2025**

**Source: Qualcomm Sweden, Tencent**

**Title: Pseudo-CR on [VOPS] AVC Operation Points**

**Spec: 3GPP TS26.265v1.1.0**

**Agenda item: 9.5**

**Document for: Decision**

**1. Introduction**

Discussion AVC

**2. Reason for Change**

Missing

**3. Conclusions**

Do it

**4. Proposal**

It is proposed to agree the following changes to 3GPP TS26.265v1.1.0 at SA4-132.

\* \* \* First Change \* \* \* \*

## 4.5 Common Bitstream Constraints

### 4.5.1 General

This clause defines common definitions for bitstreams that are used in capability definitions in the remainder of this document.

### 4.5.2 AVC Bitstreams

The following definitions are provided for AVC/ITU-T H.264 [h264] bitstreams.

For an AVC/ITU-T H.264 [h265] bitstream, *motion-vector constraints* are defined that the bitstream does neither include horizontal motion vector component values that exceed the range from −2048 to 2047, inclusive, nor does have vertical motion vector component values that exceed the range from −512 to 511, inclusive, in units of ¼ luma sample displacement.

NOTE: This constraint should be indicated by using values of log2\_max\_mv\_length\_horizontal less than or equal to 11 and values of log2\_max\_mv\_length\_vertical less than or equal to 9.

For an AVC/ITU-T H.264 [h265] bitstream, *rate constraints* are defined that the for the bitstream,

- the maximum VCL Bit Rate is constrained to be 120 Mbps with cpbBrVclFactor and cpbBrNalFactor being fixed to be 1250 and 1500, respectively; and

- the bitstream does not contain more than 16 slices per picture.

\* \* \* Next Change \* \* \* \*

5.3.1 AVC Decoding Capabilities

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The following decoding capabilities are defined:

**- AVC-FullHD-Dec**: the capability to decode AVC/ITU-T H.264 Progressive High Profile Level 4.0 [h264] bitstreams.

**- AVC-UHD-Dec:** the capability to decode AVC/ITU-T H.264 Progressive High Profile Level 5.1 [h264] bitstreams with *rate constraints* as defined in clause 4.5.2.

**- AVC-8K-Dec:** the capability to decode AVC/ITU-T H.264 Progressive High Profile Level 6.1 [h264] bitstreams with *motion-vector* constraints and *rate constraints* as defined in clause 4.5.2.

\* \* \* Next Change \* \* \* \*

### 6.2.2 3GPP AVC HD Operation Point

#### 6.2.2.1 Introduction

The AVC HD Operation Point permits consistent distribution of HD-based video using AVC. The remainder of this clause 6.2.2 defines the Bitstream and Receiver requirements for the 3GPP-AVC-HD receiver.

### 6.2.2 3GPP AVC HD Operation Point

#### 6.2.2.1 Introduction

The AVC HD Operation Point permits consistent distribution of HD-based video using AVC. The remainder of this clause 6.3.2 defines the Bitstream and Receiver requirements for the 3GPP-AVC-HD receiver.

#### 6.2.2.2 Bitstream Requirements

A 3GPP-AVC-HD Bitstream shall conform to the following requirements

- the Bitstream shall conform to AVC/ITU-T H.264 High Progressive Profile, Level 4.0 [h264] bitstreams with *rate* constraints as defined in clause 4.5.2.

- the Representation Format included in the Bitstream shall conform to the 3GPP-HD Representation format as defined in clause 4.4.3.2.

- the Bitstream shall be decodable by a decoder with **AVC-FullHD-Dec** decoding capabilities.

#### 6.2.2.3 Receiver Requirements

Receivers conforming to the Operation Point 3GPP-AVC-HD shall support decoding and rendering Bitstreams with the restrictions defined in clause 6.2.2.2.

NOTE 1: Rendering includes adherence to the parameters signalled in the bitstream to characterize the distributed Representation format.

\* \* \* End of Changes \* \* \* \*