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| **Joint Collaborative Team on Video Coding (JCT-VC)**  **of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11**  36th Meeting: Gothenburg, SE, 6-12 July 2019 | Document: JCTVC-AJ0006-v1 |

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| *Title:* | **JCT-VC AHG 6 report: Report development for usage of video signal type code points** | | |
| *Status:* | Output Document approved by JCT-VC | | |
| *Purpose:* | Ad Hoc Group 6 Report | | |
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| *Source:* | AHG Chairs |  |  |

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# Abstract

This report summarizes the activities of the AhG on report development for usage of video signal type code points that have taken place between the 35th and 36th JCT-VC meetings. Activities focused on work on text and diagrams of the draft output document JCTVC-AH1003 (Version 1 draft 6) intended for a Technical Report in ISO/IEC and Supplement document in ITU-T, and a follow-on draft JCTVC-AH1011 (Version 2 draft 3) for future changes to this Technical Report / Supplement.

# Introduction

The mandates of this AHG were:

* Produce the output draft text JCTVC-AI1003 that will be used as the basis for ITU-T H-Series Supplement 19 and ISO/IEC 23091-4.
* Produce the output draft text JCTVC-AI1011 and develop proposed improvements of its content
* Study the industry usage of video signal type code points and identify the most common and important combinations of such code points (including study of the draft text JCTVC-AI1011).

# Activities

## Reflector

The e-mail reflector is [jct-vc@lists.rwth-aachen.de]. To receive email, please subscribe to the e-mail reflector: <http://mailman.rwth-aachen.de/mailman/listinfo/jct-vc>. For e-mail exchange, it is recommended to put [AHG6] in the subject line for easy grouping.

## Activities

The group worked on producing two output documents (JCTVC-AH1003 version 1 draft 6, and JCTVC-AH1011 version 2 draft 4) based on the 35th meeting discussions. For JCTVC-AH1003, The TR report version 1 draft had some minor edits to the output document and released soon after for ITU-T publication. For JCTVC-AH1011, It was agreed to include the proposed JCTVC-AH1021 format proposed by Apple in a new annex, JCTVC-AH1026 (ICTCP usage in the HDR-WCG table), and JCTVC-AH1022 (baseband topics in two additional tables) in the output document for the Version 2 of the TR (JCTVC-AI1011), whose planned approval timeline goal was to reach Final TR state by October ( allow for dates for ISO/IEC and ITU to align better) . Other edits were to improve the reference section, cite ST 2113 for P3 colorspaces, and make editorial refinements to make the document more readable.

The AHG had two teleconferences, on June 19th and June 25th. Notes from each call are listed below:

Call 1 ( June 19th)

Attendees: Atsuro, Alexis, Gary, Sean, Lars, Yasser

1. Style checks
   1. Check titles for capitals in table headers and section headers ( including System identifiers)- Done
   2. Check CbCr notes throughout doc ( including figure)- Done
   3. Remove comments in body of document- Done
   4. Centering of cells on checkmarks-Done
   5. Check in baseband table the order of Systems Identifiers tags with reference to main table.-checked
   6. Revise table number in Annex-Done
2. Add in Apple document reference
3. Add in registry for coding equations for ICTCP
4. For table 8 add in not in cell that not specified in ITU-R side - Done
5. Send email on discussion if anything else need to be added to document.

Call 2 ( June 25th)

Attendees: Atsuro, Alexis, Chris S, Gary, Sean, Lars, Walt, Yasser

1. Went over changes on draft of first call Most were approved with some discussion on the following
   1. On table 8 , Atsuro brought up that for BT709\_YCC and BT709\_RGB that these in the smpte spec were limited to UHDTV1 (3840x2160) and up to 60 Hz. This was put in as a footnote for those cell entries.

* 1. Some discussion of colour volume, colorimetry, color space were discussed again because the definitions did not quite capture the it included colour space, intensity quantization and transfer function. We did not quite resolve this on the call so decided this could be changed at the meeting and integrated as an output document for that meeting.

**i.**      **Action item for Chris Seeger to resolve this before the next meeting starts ( July 5th)**

* + - * After the meeting Sean suggested : **colour coding characteristics**: Combination of colour gamut, colour primaries, dynamic range, transfer function, colour representation, video range, and chroma sample location. Still may need some emails to fully resolve this.  (YS: we would need to check if all terms are defined in the document. If not I would need a definition for each term)
  1. Timetable- Group believe the document is mostly complete and should be a goal to get this approved for ITU revision by the **October meeting** (otherwise they will meet next year) and if possible go thru the commenting process on the ISO side at the same time to keep both groups publication process in alignment in alignment.  This means at the next meeting (Gothenburg) we should have a PDTR as an output (if the requesting process allows for this).

## Input Documents

### Activities and output

At the meeting, JCT-VC should review input contributions, resolve comments, and continue working on the version 2 text for approval.

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