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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**  37th Meeting: Geneve, CH, 4-10 October 2019 | Document: JCTVC-AK0006-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 37th and 36th JCT-VC meetings. Activities focused on work on the 2nd edition of Supplemental 19/ 23091-4.

# Introduction

The mandates of this AHG were:

* Produce the output draft text JCTVC-AJ1003 that will be used as the basis for the 2nd edition of ITU-T H-Series Supplemental 19 and ISO/IEC 23091-4.

# 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 the output document (JCTVC-AH1003 version 2 draft 5), based on the 36th meeting discussions. This was done without any AhG Calls for this period of time, but with some email exchanges between participants of AHG6. We do expect future work on this document will be to address comments that are received for this document.

26 Sep 2019:

[Atsuro] confirmed that  BT.2100 RGB is narrow range in live broadcast facilities.

[Yasser] add MDCV profile for max\_lum >> 1000 nits, color gamut wider than P3 ?

[Sean] should a MCDV profile be added for Pulsar ? ([0.005, 4000] nits;  P3D65)

[Atsuro] confirmed that NCL is a label only useful in the context of BT.2020 (SDR/WCG)

[Chris] should the document keep a mention of BT.2100 transfer=1 for HLG UK broadcast bitstreams ?

[Sean] editorial corrections:

MDCV and ST 2067-21  P3D65x1000n0005 and BT2100x108n0005 primaries values are swapped

MDCV and ST 2067-21 value for BT2100x108n0005 max mastering luma should be 1080000

editorial suggestions [Sean]:

indices order in table 10 to be reconsidered.

New substantive proposals:

1. 4000-nit Pulsar reference monitors are used for many high-quality cinematic productions.  Thus, I suggest adding “P3D65x4000n005 – representing a mastering display LED LCD environment for mastering of HDR content with displays having 4000 cd/m2 of peak brightness, 0.005 minimum brightness, and a D65 white point setting within a Recommendation ITU-R BT.2100 colour representation constrained to P3 colour gamut values” Also add a corresponding column to Table 10.  (I need to verify the specs).

New editorial suggestions:

1. In Table 10, rows 1-3 (after header), indicate the red, green, and blue correspondence for colour primaries
2. In Table 10, rows 7-9, change the X[] and y[] indices to correspond to MDCV SEI message in HEVC and AVC and indicate the red (index 2), green(index 0), and blue (index 1) correspondence for colour primaries. (This would make the order of the indexes in the Table be 2, 0, 1 for red, green, blue)
3. In Table 10, row 13, indicate red, green, and blue correspondence.
4. Some formatting to improve the readability of the table

Editorial corrections:

1. The MDCV and ST 2067-21 coded values for primaries are swapped for P3D65x1000n0005 and BT2100x108n0005
2. The MDCV and ST 2067-21 coded value for maximum display mastering luminance for BT2100x108n0005 should be should be 1080000

6 Aug 2019:

[Mayumi Koike] The first edition was published and the second edition was registered.

Ballot started with end date: 01 Oct 2019

## Input Documents

### Activities and output

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

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