

**Joint Video Experts Team (JVET)
of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC
29/WG 11**

18th Meeting: Teleconference, April 2020

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Title: AHG9: On Picture Timing Information Signalling and HRD

Status: Input document to JVET

Purpose: Proposal

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Source: Sharp

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Abstract

Following is proposed:

Proposal 1: It is proposed that decoding unit related syntax elements:

`du_common_cpb_removal_delay_flag`, `du_common_cpb_removal_delay_increment_minus1[ i ]`,
`num_nalus_in_du_minus1[ i ]` and `du_cpb_removal_delay_increment_minus1[ i ][ j ]` in picture timing
message be signalled only when there is more than one DU in an AU. A corresponding modification is
proposed to `duCpbRemovalDelayInc` variable derivation.

Proposal 2: The CPB operation section in VVC WD does not correctly use AU and DU related variable
names correctly and in one case uses a variable that is not defined. Editorial fixes are provided for this.

Introduction

VVC WD [1] includes HRD which supports access unit (AU) and/or decoding unit (DU) based
operation.

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CARD

JVET-R0103

<http://vexpertise.stbit.ru/documents/JVET-R0103>

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archive v1

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Document Information

Submitted by

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Title

HPCC: On-Picture Timing Information Signaling and HFD

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Document

JVET-R0103
uploaded document

Associated Resources

A square QR code located in the bottom right corner of the page, likely linking to the document preview or related resources.

MEETING NOTES

external meeting notes

https://www.itu.int/wftp3/av-arch/jvet-site/2020_04_R_Alpbach/JVET-R_Notes_dH.docx

  	Joint Video Experts Team (JVET) of ITU-T SG21 WP3/21 and ISO/IEC JTC 1/SC 29 18th Meeting: Teleconference, April 2020	Document: JVET-R0103
Title:	Meeting Report of the 41st Meeting of the Joint Video Experts Team	
Status:	Report document from the chair of JVET	
Purpose:	Report	

1 Summary



MEETING NOTES

JVET-R0103 AHG9: On Picture Timing Information Signalling and HRD [S. Deshpande, J. Samuelsson, A. Segall, P. Cowan (Sharp)]

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REFERENCES

1. [B. Bross, J. Chen, S. Liu, Y.-K. Wang, "Versatile Video Coding \(Draft 8\)", JVET-Q2001, 17th Meeting: Brussels, January 2020.](#)