

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

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Title: AHG8/AHG17: Reduction of overlapping between POC LSB and Temporal ID

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**Author(s) or
Contact(s):** [M. Sychev](#) | sychev.maxim@huawei.com | submitter (Huawei)

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Abstract

This contribution presents derivation a portion of least significant bits of Picture Order Counter (POC) based on Temporal Layer ID in video coding in the Versatile Video Coding (VVC) and other video coding standards. The usage of Temporal ID value for derivation of the least significant bits of POC LSB when dyadic hierarchical picture order structure is used in temporal sub-streams. Two methods are proposed the first simple method allows to derive one LSB bit of POC, the second method provide more reduction of signaling of POC LSB value. One SPS flag “dyadic_temporal_nesting_flag” is proposed to support this derivation of POC LSB value basing on Temporal ID value. Additional conditional check in signalling of HRD parameter signaling is proposed based on the value of dyadic_temporal_nesting_flag flag.

Introduction

A temporal layer concept in VVC is very similar to the temporal layer concept for temporal scalability in H.265/HEVC and in H.264/AVC Annex G and available in the base specification. Each picture has an associated temporal level identifier TID. Random access pictures are specified to always have TID = 0. With the concept of temporal layers, extracting a coded video sequence of lower temporal resolution from a given video sequence can be simply achieved by discarding all NAL units with TID larger than a selected value.

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LINKS

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JVET-P0420

<http://vexpertise.stbit.ru/documents/JVET-P0420>

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M. Sychev120(m50387)

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ABSTRACT

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Document Information

Submitted by: Jorma-Pekker Oksa

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Associated Resources

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ARCHIVE

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https://jvet-experts.org/doc_end_user/documents/16_Geneva/wg11/JVET-P0420-v2.zip

Archive

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JVET-P0420-v2_specification_text_SolutionB.docx

DOC

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XLS

SolutionB-v2.xlsx



MEETING NOTES

external meeting notes

https://www.itu.int/wftp3/av-arch/jvet-site/2019_10_P_Geneva/JVET-P_Notes_dG.docx



Joint Video Experts Team (JVET)

of ITU-T SG21 WP3/21 and ISO/IEC JTC 1/SC 29

16th Meeting: Geneva, October 2019

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1 Summary



MEETING NOTES

[JVET-P0420](#) AHG8/AHG17: Reduction of overlapping between POC LSB and Temporal ID [M. Sychev (Huawei)]

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REFERENCES

1. [B. Bross, J. Chen, S. Liu, "Versatile Video Coding \(Draft 6\)", JVET-O2001, 15th Meeting: Gothenburg, SE, July 2019.](#)