Joint Video Experts Team (JVET) of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11
14th Meeting: Geneva, March 2019

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Title: **Crosscheck of JVET-N0106 (CE7-related: TU level limits on context-coded bins for coefficient coding)**

Status: Input document to JVET

Purpose: Proposal

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Abstract

This document crosschecks the JVET-N0106 document, which proposes to limit the total number of context-coded bins for coefficient coding at TU-level. The limit is set to number of non-zero coded coefficient groups in a TU times the existing regular coded bin count limit at coefficient group level (2 bins/coefficient). The verification task was done, and the BD-rate results match exactly with those in JVET-N0106.

Verification

Qualcomm proposed to limit the total number of context-coded bins for coefficient coding at TU-level [1]. The limit is set to number of non-zero coded coefficient groups in a TU times the existing regular coded bin count limit at coefficient group level (2 bins/coefficient).

The test was conducted under the the common test conditions (CTC) defined in [2] using the VTM4.0 software [3]. Table 1 shows the results using VTM4.0 as the anchor and enabling the proposed method in the test. The BD-rates of our experiment match exactly those in JVET-N0106. Our runtime comparison may be not accurate.

Table 1. The results of JVET-N0106 using VTM4.0 as anchor

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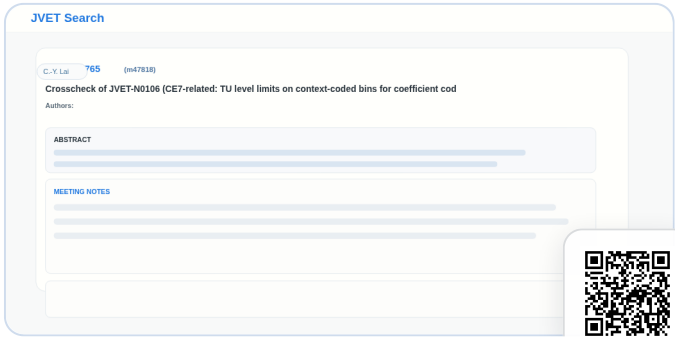
LINKS

CARD

JVET-N0765

http://vexpertise.stbit.ru/documents/JVET-N0765



SOURCE

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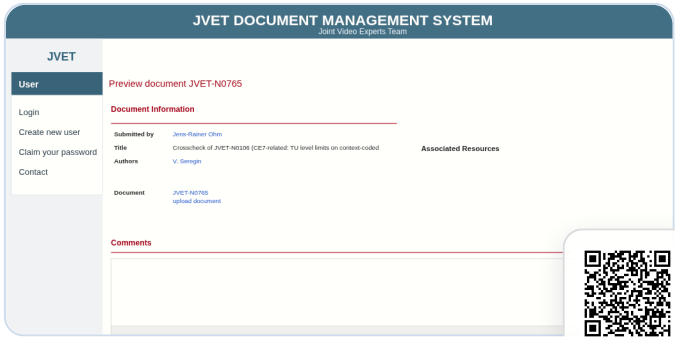
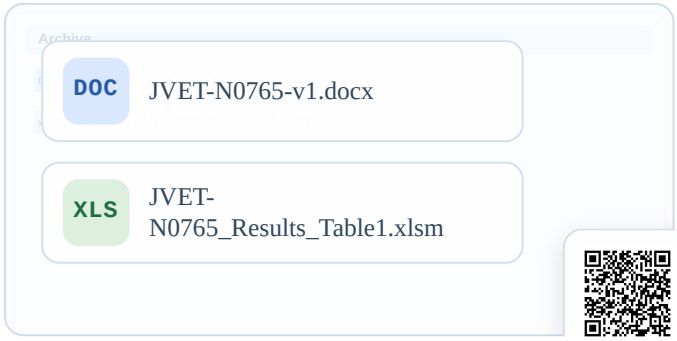
https://jvet-experts.org/doc_end_user/current_document.php?id=6520



ARCHIVE

archive v1

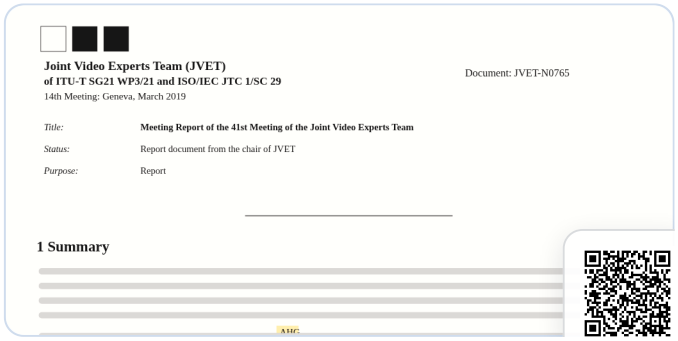
https://jvet-experts.org/doc_end_user/documents/14_Geneva/wg11/JVET-N0765-v1.zip



MEETING NOTES

external meeting notes

https://www.itu.int/wftp3/av-arch/jvet-site/2019_03_N_Geneva/JVET-N_Notes_dF.docx



MEETING NOTES

JVET-N0765 Crosscheck of JVET-N0106 (CE7-related: TU level limits on context-coded bins for coefficient coding) [C.-Y. Lai (MediaTek)] [late]

CITATION

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REFERENCES

1. F. Bossen, J. Boyce, X. Li, V. Seregin, K. Sühring, "JVET common test conditions and software reference configurations for SDR video", JVET-M1010, 13th Meeting: Marrakech, January 2019.
2. M. Coban, M. Karczewicz, "CE7-related: TU level limits on context-coded bins for coefficient coding", JVET-N0106, 14th Meeting: Geneva, March 2019.