

**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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18th Meeting: Teleconference, April 2020

Title: Crosscheck of JVET-R0141 (Disabling Dependent Quantization and Sign Data Hiding in Transform Skip blocks)

Status: Input document to JVET

Purpose: Proposal

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Source: Panasonic

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Abstract

This contribution is a cross-check report of option1 of JVET-R0141. It is confirmed that the cross-check results are identical with the proponent's results.

Introduction

JVET-R0141[1] proposes to disable dependent quantization (DQ) and sign data hiding (SDH) in transform skip blocks normatively. In the current specification, DQ and SDH can be enabled in transform skip blocks when slice_ts_residual_coding_disabled_flag is enabled. It is asserted that decoder and encoder design become complicated due to the combination of DQ and TS or SDH and TS. JVET-R0141 proposes not to use DQ and SDH in TS blocks with syntax level restriction.

Simulation results

The simulation is conducted using VTM-8.0 + MergeRequest!1475 + MergeRequest!1480 with the test condition described in JVET-N1010 [2]. To evaluate the effect on slice_ts_residual_coding_disabled_flag, the following simulations are conducted.

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LINKS

CARD

JVET-R0398

<http://vexpertise.stbit.ru/documents/JVET-R0398>

JVET Search

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Crosscheck of JVET-R0141 (Disabling Dependent Quantization and Sign Data Hiding in Transform Skip blocks)

Authors:

ABSTRACT

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Document Information

Submitted by: Jorma Paavola Olli

Title: Crosscheck of JVET-R0141 (Disabling Dependent Quantization and Sign Data Hiding in Transform Skip blocks)

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JVET-R0398.docx

XLS

JVET-R0398_R0141_Proposal_xcheckresult.xlsm

XLS

JVET-R0398_R0141_VTM_xcheckresult.xlsm



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-R0398

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



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[JVET-R0398](#) Crosscheck of JVET-R0141 (Disabling Dependent Quantization and Sign Data Hiding in Transform Skip blocks) [[K. Abe \(Panasonic\)](#)] [late]

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REFERENCES

- [F. Bossen, J. Boyce, X. Li, V. Seregin, K. Sühring, "JVET common test conditions and software reference configurations for SDR video", JVET-N1010, 14th Meeting: Geneva, March 2019.](#)
- [T. Hashimoto, E. Sasaki, T. Aono, T. Ikai, "Disabling Dependent Quantization and Sign Data Hiding in Transform Skip blocks", JVET-R0141, 18th Meeting: Teleconference, April 2020.](#)