

**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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Abstract

This report summarizes the activities of the AhG4 on Test material and visual assessment that have taken place between the 31st and 32nd JVET meetings.

The test material available for JVET are summarized in the Annex.

Introduction

The mandates of this AHG were:

Consider plans for additional verification testing of VVC capability, particularly target conducting a first test for VVC multi-layer features by the next meeting, and update the test plan according to subsequent tests.

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LINKS

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JVET-AF0004

<http://vexpertise.stbit.ru/documents/JVET-AF0004>

JVET Search

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report: Test material and visual assessment (AHG4)

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ABSTRACT

MEETING NOTES



SOURCE

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JVET

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Comments



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MEETING NOTES

external meeting notes

http://vexpertise.stbit.ru/meeting-notes/source/meeting_32_af

Joint Video Experts Team (JVET) of ITU-T SG21 WP3/21 and ISO/IEC JTC 1/SC 29 32nd Meeting: Hannover, DE, October 2023

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1 Summary



MEETING NOTES

[JVET-AF0004](#) JVET AHG report: Test material and visual assessment (AHG4) [V. Baroncini, T. Suzuki, M. Wien (co-chairs), W. Husak, S. Iwamura, P. de Lagrange, S. Liu, S. Puri, A. Segall, S. Wenger (vice-chairs)]

Verification test preparation for VVC multilayer coding

A teleconference was organized by AG 5 and JVET AhG4 on 2023-09-20 13:00h UTC. The topic was the Verification Test preparation for VVC Multilayer Coding.

The AhG reviewed the status and progress with respect to the compression performance assessment of dual-layer coding category of the verification test. Potential issues with the current configuration and implementation of the VTM software were identified. Furthermore, the suitability of the current test sequences under consideration and the intended rate range were discussed. The provision of alternative test material, potentially including other resolutions, and further study was encouraged. The conduction of corresponding expert viewing tests at the meeting site in Hannover was solicited.

The report of the AhG meeting is available in JVET-AF0044.

Test sequences

The test sequences used for CfP/CTC are available on <ftp://jvet@ftp.ient.rwth-aachen.de> in directory “/ctc” (accredited members of JVET may contact the JVET chair for login information).

In the report period, test material related to the CTC for SHVC and HEVC SCC has been made available in that directory.

Due to copyright restrictions, the JVET database of test sequences is only available to accredited members of JVET (i.e., members of ISO/IEC MPEG and ITU-T VCEG).

Related contributions

JVET number	MPEG number	Created	First upload	Last upload	Title	Source
JVET-AF0004	m64938	2023-10-06 14:09:48			JVET AHG report: Test material and visual assessment (AHG4)	V. Baroncini, T. Suzuki, M. Wien (co-chairs), W. Husak, S. Iwamura, P. de Lagrange, S. Liu, S. Puri, A. Segall, S. Wenger

JVET-AF0044	m64729	2023-09-20 14:59:44	2023-09-20 16:26:38	2023-09-20 16:26:38	AHG4: Report on AhG meeting on verification testing for VVC multilayer coding	M. Wien (RWTH)
JVET-AF0047	m64758	2023-09-28 12:30:50	2023-10-02 08:11:08	2023-10-02 08:11:08	[AHG4] ECM10.0 evaluation on V3C test content	S. Schwarz , M. M. Hannuksela (Nokia)
JVET-AF0075	m64859	2023-10-06 04:56:24	2023-10-06 09:00:29	2023-10-11 06:44:02	Evaluation results of Low Complexity Enhancement Video Codec (LCEVC) with HM and VTM on 4K content	O. Chubach, Y.-L. Hsiao, C.-Y. Chen, C.-W. Hsu, T.-D. Chuang, Y.-W. Chen, Y.-W. Huang, S.-M. Lei (MediaTek)
JVET-AF0186	m65031	2023-10-06 23:27:22	2023-10-06 23:56:26	2023-10-06 23:56:26	AHG4: experiments related to VVC spatial scalability visual testing	P. de Lagrange , F. Urban (InterDigital)
JVET-AF0187	m65032	2023-10-06 23:28:48	2023-10-06 23:33:14	2023-10-06 23:33:14	Compression of Gaming Contents	Z. Lin, K. Cai , J. Sauer, Y. Zhao, E. Alshina (Huawei)
JVET-AF0253	m65538	2023-10-11 10:26:29	2023-10-11 17:38:45	2023-10-11 17:38:45	[AHG-4] On the proposed gaming sequences from InterDigital and class gaming	S. Puri , T. Poirier, C. Bonnineau, I. Marzuki, R. Utida, E. François (InterDigital)
JVET-AF0262	m65563	2023-10-12 01:10:15	2023-10-12 01:20:34	2023-10-12 01:20:34	New Film Grain Material based on a Ground Truth approach	D. Ugur, D. Podborski, A. M. Tourapis (Apple Inc)
JVET-AF0263	m65564	2023-10-12 01:12:29	2023-10-12 01:20:56	2023-10-12 01:20:56	Suggested process for measuring Grain Fidelity using the	A. M. Tourapis , J. Kim, S. Paluri, D. Podborski (Apple Inc)

					Ground Truth test set	
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Recommendations

The AHG recommended:

- To review and consider JVET-AF0186 in the finalization of the multi-layer VVC verification test plan.
- To consider the structure of a verification test report for multi-layer VVC taking into account the results achieved at the Geneva meeting in the content layering category of the verification test plan.
- To review and consider JVET-AE0262 and JVET-AE0263 in the development of the draft plan for subjective quality testing of FGC SEI message.
- To review document JVET-AF0075 in a joint meeting with WG 4 and AG 5.
- To collect volunteers to conduct further verification tests and subjective quality tests, including volunteers to encode.
- To continue to discuss and to update the non-finalized categories of the verification test plan and subjective quality test plan for FGS, including those which have not been addressed yet.
- To review the set of available test sequences for the verification tests as well as subjective quality tests and potentially collect more test sequences with a variety of content.
- To continue to collect new test sequences available for JVET with licensing statement.

A joint meeting with WG 4 and AG 5 was agreed to be held on JVET-AF0075.

CITATION

V. Baroncini, T. Suzuki, M. Wien, W. Husak, S. Iwamura, P. de Lagrange, S. Liu, S. Puri, A. Segall, S. Wenger, "JVET AHG report: Test material and visual assessment (AHG4)", JVET-AF0004, 32nd Meeting: Hannover, DE, October 2023.