

**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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29th Meeting, by teleconference, 11-20 January 2023

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Abstract

This document summarizes the activity of AHG5: “Conformance testing” between the 28th meeting in Mainz (20-28 October 2022) and the 29th meeting (teleconference, 11-20 January 2023).

Mandates

At the 28th JVET meeting, the AHG on Conformance testing was established with the following mandates:

Study the draft conformance testing for operation range extensions JVET-Y2026 and the additional conformance bitstreams for VVC multilayer configurations JVET-AB2028, and investigate the need for improvements.

Study the requirements of VVC, HEVC, and AVC conformance testing to ensure interoperability.

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LINKS

CARD

JVET-AC0005

<http://vexpertise.stbit.ru/documents/JVET-AC0005>

JVET Search

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report: Conformance testing (AHG5)

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ABSTRACT

MEETING NOTES

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MEETING NOTES

external meeting notes

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Joint Video Experts Team (JVET)
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1 Summary

Meeting Report of the 41st Meeting of the Joint Video Experts Team

Report document from the chair of JVET

Report

MEETING NOTES

[JVET-AC0005](#) JVET AHG report: Conformance testing (AHG5) [D. Rusanovskyy, I. Moccagatta (co-chairs), F. Bossen, K. Kawamura, T. Ikai, H.-J. Jhu, K. Sühring, Y. Yu (vice-chairs)]

Activities

The AHG communication was to be conducted through the main JVET reflector, jvet@lists.rwth-aachen.de, with [AHG5] in message headers. However, no correspondence marked as AHG5 was sent between the 28th and 29th meetings.

Timeline

The progress on the Conformance testing specification is proceeding per the timeline below:

- **VVCv1 conformance:**
 - ISO/IEC FDIS 23090-15 issued from 2021-10 meeting, FDIS registered for formal approval 2022-07-11, FDIS ballot closed 2022-11-04, standard published 2022-11-24
 - H.266.1 V1 Consent 2022-01-28, Last Call began 2022-04-01, Approved 2022-04-29, pre-published 2022-05-17, standard published 2022-07-12.
- **VVCv2 conformance:**
 - ISO/IEC 23090-15/Amd.1 CDAM: 2021-10
 - ISO/IEC 23090-15/Amd.1 DAM: 2022-01
 - DAM ballot closed 2022-11-15, ready to proceed to FDAM at current meeting 2023-01
 - H.266.1 V2 Consent planned for 2023-07

Status on bitstream submission

There were no changes to the submitted bitstreams. The status at the time of preparation of this report is as follows:

- conformance bitstreams for VVC:
 - 104 bitstream categories have been identified
 - At least one bitstream has been submitted in each identified category
 - 283 total bitstreams have been provided, checked, and made available
 - No changes between 27th and 28th meeting.
- conformance bitstreams for VVC operation range extensions:
 - 57 bitstream categories have been identified
 - 1 bitstream of 1 identified category has been re-generated
 - 128 (was 127) bitstreams of 57 (was 56) identified categories have been cross-checked and uploaded.

Activities and Discussion

The AHG activities were reported to be on schedule per recent plans.

VVC activities:

Ticket #1581 was filed. According to it the following streams:

- ILRPL_A_Huawei_2
- OLS_A_Tencent_5
- OLS_B_Tencent_5
- OLS_C_Tencent_5
- OPI_B_Nokia_3
- SPATSCAL444_A_Qualcomm_2
- SPATSCAL_A_Qualcomm_3
- VPS_A_INTEL_3
- VPS_B_ERICSSON_1
- VPS_C_ERICSSON_2

need to be re-generated. The issue may be resolved after applying additional encoder fix related to JVET-AB0085.

VVC operation range extensions activities:

None.

The regular JVET e-mail reflector was used for discussions (jvet@lists.rwth-aachen.de).

The AHG5 chairs and JVET chairs can be reached at jvet-conformance@lists.rwth-aachen.de. Participants should not subscribe to this list but may send emails to it.

Contributions

No AhG5 related contributions to this meeting were identified in the AHG report.

Ftp site information

The procedure to exchange bitstreams (ftp site, bitstream files, etc.) is specified in Sec 2 “Procedure” of [JVET-R2008](#). The ftp and http sites for downloading bitstreams are

- VVC:

ftp://ftp3.itu.int/jvet-site/bitstream_exchange/VVC

https://www.itu.int/wftp3/av-arch/jvet-site/bitstream_exchange/VVC/

- VVC operation range extensions:

ftp://ftp3.itu.int/jvet-site/bitstream_exchange/VVCv2

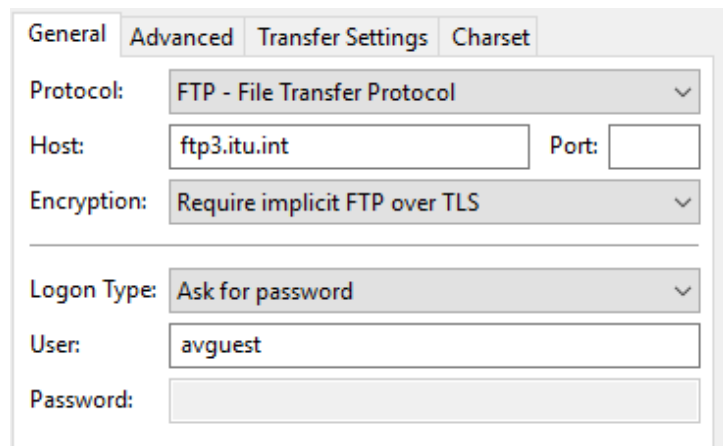
https://www.itu.int/wftp3/av-arch/jvet-site/bitstream_exchange/VVCv2

The ftp site for uploading bitstream files is as follows.

<ftp://ftp3.itu.int/jvet-site/dropbox/>

(user id: avguest, passwd: Avguest201007)

If using FileZilla, the following configuration is suggested:



The screenshot shows the FileZilla configuration window with the 'General' tab selected. The settings are as follows:

- Protocol:** FTP - File Transfer Protocol
- Host:** ftp3.itu.int
- Port:** (empty)
- Encryption:** Require implicit FTP over TLS
- Logon Type:** Ask for password
- User:** avguest
- Password:** (empty)

In the Filezilla Edit Settings Connection menu, it may also be necessary to set the minimum TLS level to 1.0.

Recommendations

The AHG recommended the following:

- Proceed with the generation, cross-checking, and documentation of the additional conformance bitstreams for VVC, in particular conformance bitstreams for VVC multilayer configurations (JVET-AB2028).
- Maintain and update the conformance bitstream database and contribute to report problems in JVET document 1004.
- Start the generation, cross-checking, and documentation of the conformance streams for the HEVC multiview profiles supporting extended bit depth (JVET-AA1011).

Based on ballot comment JP-006, it would be possible to include the corrected v1 bitstreams into the FDAM/FDIS.

CITATION

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