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| **Joint Collaborative Team on 3D Video Coding Extension**  **of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11**  15th Meeting: Geneva, CH, 27 – 31 May 2016 | Document: JCT3V-O0002 |

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| *Title:* | **JCT-3V AHG Report: MV-HEVC and 3D-HEVC Software Integration (AHG2)** | | |
| *Status:* | AHG report input to JCT-3V | | |
| *Purpose:* | AHG report | | |
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| *Source:* | AHG | | |

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# Abstract

This report summarizes the activities of the AhG on MV-HEVC and 3D-HEVC Software Integration that have taken place between the 14th JCT-3V meeting in San Diego and the 15thJCT-3V meeting in Geneva. Activities focused on the release of the 3D-HEVC Software Draft 4, and the update of HTM to HM-16.9.

# Mandates

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| **Title** | **Chairs** | **Mtg** |
| **MV-HEVC / 3D-HEVC Software Integration (AHG2)**  ([jct-3v@lists.rwth-aachen.de](mailto:jct-3v@lists.rwth-aachen.de))   * Coordinate development of the HTM software and its distribution to JCT-3V members. * Produce documentation of software usage for distribution with the software. * Prepare and deliver HTM-16.1 software version. * Prepare and deliver Draft 4 of 3D-HEVC software JCT3V-N1012. * Coordinate with AHG3 to identify any possible bugs in software and conformance. * Identify any mismatches between software and text. | G. Tech  H. Liu  Y. W. Chen  (co-chairs) | N |

# HTM releases

One version of the HTM software was produced. A second version will be released during or short after the meeting.

The release of the software was announced on the JCT-3V e-mail reflector and the software was made available through the SVN server [https://hevc.hhi.fraunhofer.de/svn/svn\_3DVCSoftware/tags/](https://hevc.hhi.fraunhofer.de/svn/svn_3DVCSoftware/tags/HTM-4.0). Anchor bitstreams have been created and uploaded to: [ftp.hhi.fraunhofer.de](ftp://ftp.hhi.fraunhofer.de); path: /HTM-Anchors/. To obtain username and password please send a mail to gerhard.tech@hhi.fraunhofer.de.

The following sections give a brief summary of the integrations.

## Version HTM-16.1

Version 16.1 was released. It contains fixes for non-CTC conditions and clean-ups. The coding performance under CTC conditions is identical to HTM-16.0.

## Version HTM-16.2

HTM-16.2 will be released during or short after the meeting it was developed by integrating changes between HM-16.7 and HM-16.9 to HTM-16.1.

# 3D-HEVC Software Draft 4

The *3D-HEVC software draft 4 (JCT3V-N1012)* has been released and forwarded to the editors of *ISO/IEC FDIS 23008-5:201x Reference Software for High Efficiency Video Coding [2nd ed.]* for integration.

The software corresponds to HTM-16.1. The software can also be accessed using the svn:

https://hevc.hhi.fraunhofer.de/svn/svn\_3DVCSoftware/tags/HTM-16.1

# Recommendations

The recommendations of the MV-HEVC and 3D-HEVC Software Integration AHG are:

* Continue development of HTM.
* Continue to identify bugs and discrepancies with text and address them.