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| **Joint Collaborative Team on Video Coding (JCT-VC)**  **of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11**  36th Meeting: Gothenburg, SE, 6–12 July 2019 | Document: JCTVC-AJ0002-v1 |

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| *Title:* | **JCT-VC AHG report: HEVC test model editing and errata reporting (AHG2)** | | |
| *Status:* | AHG report input to JCT-VC | | |
| *Purpose:* | AHG report | | |
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| *Source:* | AHG | | |

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# Abstract

This document reports the work of the JCT-VC ad hoc group on (HEVC and AVC) test model editing and errata reporting (AHG2) between the 35th meeting in Geneva, CH (Mar. 2019) and the 36th meeting in Gothenburg, SE (Jul. 2019).

# Mandate

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| **Title and Email Reflector** | **Chairs** | **Meeting** |
| **Test model editing and errata reporting (AHG2)**  ([jct-vc@lists.rwth-aachen.de](mailto:jct-vc@lists.rwth-aachen.de))   * Produce and develop proposed improvements to the JCTVC-AH1002 HEVC Test Model 16 (HM 16) Update 10 of Encoder Description * Collect reports of errata for the HEVC and AVC specification and the published HDR-related technical reports. * Gather and address comments for refinement of these documents. * Coordinate with AHG3 on software development and software technical evaluation to address issues relating to mismatches between software and text. | B. Bross, C. Rosewarne (co‑chairs), J.‑R. Ohm, K. Sharman, G. J. Sullivan, A. Tourapis, Y.‑K. Wang (vice‑chairs) | N |

# Status of AHG2 work

## JCTVC-AI1002 revised encoder description produced

Update 10 of the encoder description was produced (JCTVC-AI1002), incorporating description of recently added pre-encoder filtering and updates to rate control.

## Input documents

Contribution JCTVC-AJ0021 HEVC errata: on the general decoding process is noted.

## Email regarding 3DV ATM

As you may recall from the previous meeting, there was a disparity between software and text in 3DV ATM:

                depth\_view\_present\_flag and texture\_view\_present\_flag in the software were only available if profile\_idc==ThreeDV\_HIGH;

                for the text, there was no profile\_idc check, allowing the flags to be used for profile ThreeDV\_EXTEND\_HIGH.

To summarise, my findings:

the flags in question were added in JCT3V-B0147, and the EXTEND\_HIGH profile was already an option in the software at that point in time.

<http://phenix.int-evry.fr/jct2/doc_end_user/documents/2_Shanghai/wg11/JCT3V-B0147-v2.zip>

The software and text seem to be completely different from the outset:

Software: num\_views\_minus1 is not restricted by profile\_idc, but depth\_view\_present flag is restricted.

                Text: num\_views\_minus1 and depth\_view\_present flag are restricted by profile\_idc, but only at a higher level, and both by profile idc 138 (ThreeDV\_HIGH).

# Recommendations

The recommendations of the HEVC test model editing and errata reporting AHG are for JCT-VC to:

1. Encourage the use of the issue tracker to report issues with the text of both the HEVC specification and the encoder description.
2. Confirm resolutions of open tickets (if any) in the issue tracker and close them.
3. Confirm behaviour of 3DV ATM versus the corresponding text.
4. Review input documents identified above.