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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**  38th Meeting: Brussels, BE, 10–17 January 2020 | Document: JCTVC-AL0002-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 37th meeting in Geneva, CH (Oct. 2019) and the 38th meeting in Brussels, BE (Jan. 2020).

# 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))   * Develop proposed improvements to the JCTVC-AK1002 HEVC Test Model 16 (HM 16) Update 12 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-AK1002 revised encoder description

Update 12 of the Encoder Description (JCTVC-AK1002) was uploaded, incorporating the revised GOP structure for random access of JCTVC-AK0030.

Note that the released software version is described as HM16.22, in accordance with decisions made at the 37th JCT-VC meeting in Geneva. However, the latest version released at the time of the 38th JCT-VC meeting was HM16.21. The difference is the integration of proposal JCTVC-AJ0028 (merge request #11 in HM Git).

## Input documents

No input documents were noted as being of relevance to mandate 2 of the AHG.

## Text ticket review

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| **Ticket** | **One liner** | **Status** |
| 1375 | minor fix for the spec | Confirmed fixed in H.265 (11/19) |
| 1504 | Small typos in profile\_tier\_level syntax in tabular form (7.3.3) | Aspect 1: Extra ')' is still present in H.265 (11/19) Aspect 2: sub\_layer\_profile\_compatibility\_flag missing[ i ] issue confirmed fixed in H.265 (11/19). |
| 1500 | typo in equation (8-69),(8-70) (palette\_transpose\_flag not transposing) | Confirmed present in H.265 (11/19). |
| 1499 | Equation 8-47 in v5 spec was inadvertently changed from v4 spec ('k + 1' accidently became 'k - 1' in dcVal derivation) | Confirmed fixed in H.265 (11/19). |
| 1498 | Typos in Table 9-43 (for palette\_run\_suffix PalletMaxRun should be PalletMaxRunMinus1) | Confirmed present in H.265 (11/19). |
| 1494 | Erroneous loop conditions in Table D.2.43 ( \*ps\_rbsp\_data\_length comparison should be "<" instead of "<=" to avoid an off-by-one error) | Confirmed fixed in H.265 (11/19). |
| 1491 | duplicate invocation of 9.3.4.3 arithmetic decoding process (invoked both in 9.3.4.1 and also in 9.3.4.2). | Confirmed present in H.265 (11/19) - confirm whether action is needed) |

# 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 the above-identified input documents.