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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**  21st Meeting: Warsaw, PL, 19–26 June 2015 | Document: JCTVC-U0038 |

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| *Title:* | **Proposed editorial improvements to HEVC Screen Context Coding Draft Text 3** | | |
| *Status:* | Input Document to JCT-VC | | |
| *Purpose:* | Proposed editorial improvements to Draft of HEVC | | |
| *Author(s) or Contact(s):* | Rajan Joshi (Qualcomm) Qualcomm  Jizheng Xu Microsoft  Shan Liu MediaTek  Yan Ye InterDigital  Gary Sullivan Microsoft | Email: | [rajanj@qti.qualcomm.com](mailto:rajanj@qti.qualcomm.com)  [jzxu@microsoft.com](mailto:jzxu@microsoft.com)  [shan.liu@mediatek.com](mailto:shan.liu@mediatek.com)  [yan.ye@interdigital.com](mailto:yan.ye@interdigital.com)  [garysull@microsoft.com](mailto:garysull@microsoft.com) |
| *Source:* | Qualcomm, Microsoft, MediaTek, InterDigital | | |

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# Abstract

This document summarizes the proposed editorial improvements to HEVC Screen Context Coding Draft Text 3. It also identifies known issues that should be addressed in version 4 of the draft text. The accompanying document, JCTVC-T1005-v2-U0038.docx, contains the proposed changes with revision marks relative to JCTVC-T1005\_v2.

# Introduction

This document summarizes the proposed editorial improvements to HEVC Screen Context Coding Draft Text 3. It also identifies known issues that should be addressed in version 4 of the draft text. The accompanying document, JCTVC-T1005-v2-U0038.docx, contains the proposed changes with revision marking relative to JCTVC-T1005\_v2.

## Summary of proposed editorial improvments

* Fixes for interaction of 4:2:2 palette with palette\_transpose\_flag: Whether a sample position has chroma components associated with it is now decided after taking the value of palette\_transpose\_flag into account.
* Other fixes related to palette\_transpose\_flag: When palette\_transpose\_flag is equal to 1, the dimensions of recSamples array are swapped instead of the dimensions of the reconstructed picture.
* Indexing for palette\_transpose flag: Since palette\_transpose\_flag is used in the decoding process, indexing was introduced for palette\_transpose\_flag.
* Miscellaneous typos and bugfixes.

## Known issues

* Include post HEVC v2 edits.
* Include missing SEI messages (DRAP SEI message, JCTVC-S0095 and coded region completion SEI message, JCTVC-T0047).
* Ticket #[1388](https://hevc.hhi.fraunhofer.de/trac/hevc/ticket/1388): Text integration error on ACT qp offset.
* Bug reports from input documents at this meeting.

## Technical issues needing discussion

During the 20th JCTVC meeting in Geneva, the intra block copy (IBC) signalling was unified with inter signalling. In draft text 3, when curr\_pic\_as\_ref\_enabled\_flag is equal to 1, only P and B slices are permitted. Furthermore, biprediction is disabled for intra block copy. The following is a list of issues (not exhaustive) that should be discussed at the 21st JCTVC meeting in Warsaw:

* Are (some or all types of) IRAP pictures prohibited when curr\_pic\_as\_ref\_enabled\_flag is equal to 1?
* Is intra block copy referencing prohibited for biprediction?
* Should the definition of "I slice" exclude intra block copy usage within the slice?