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| **Joint Collaborative Team on 3D Video Coding Extension Development**  **of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11**  3rd Meeting: Geneva, CH, 17-23 Jan. 2013 | Document: JCT3V-C0205 |

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| *Title:* | **3D-CE5.h: Cross check of JCT3V-C0065 Inter-view SAO process in 3DV coding by LG** | | |
| *Status:* | Input Document | | |
| *Purpose:* | Report | | |
| *Author(s) or Contact(s):* | Jewon Kang Ying Chen  5775 Morehouse Drive San Diego, CA 92121 USA | Tel: Email: | 1-858-651-8457 [jewonk@qti.qualcomm.com](mailto:jewonk@qti.qualcomm.com)  1-858-845-6589  [cheny@qti.qualcomm.com](mailto:cheny@qti.qualcomm.com) |
| *Source:* | Qualcomm Incorporated | | |

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# Abstract

This document reports the cross-check results of LG proposal JCT3V-C0065, “3D-CE5.h: Inter-view SAO process in 3DV” as compared HTM 5.0.1 [1] migrated into HM8.2 based SAO. The main change in migration is the CTU-based SAO coding with interleaving. Cross-checking is performed, and the PSNR and bitrate results are the same as those provided by the proponents.

# Examination of Software

The coding performance of the proposed method is examined in this evaluation. It is confirmed by the software that the implementations are aligned with the proposal provided by the proponent, and the PSNR and bit-rates are the same.

# Experimental results

Simulation results (“Migration of SAO in HTM5.0.1 vs HTM5.0.1” and “Proposed Inter-view SAO by LG vs the Migration of SAO”) in the proposal are respectively shown in Table 1 and Table 2. The implementation was based on HTM5.0.1, and simulations are done under common test conditions. The encoding and decoding time can be different due to the hybrid platforms.

Table 1. Rate-distortion results on 3-view coding with depth of ‘Migration of SAO process of the current 3D HEVC (HTM 5.0.1) to the current HEVC (HM 8.2)’



Table 2. Rate-distortion results on 3-view coding with depth of ‘Inter-view SAO process on the top of migrated SAO process’

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# References

1. G. Tech, K. Wegner, Y. Chen, S. Yea, “3D-HEVC Test Model 2”, JCT3V-B1005, Oct. 2012.