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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**  13th Meeting: Incheon, KR, 18–26 Apr. 2013 | Document: JCTVC-M0010\_r1 |

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| *Title:* | **JCT-VC AHG report: SHVC core experiments (AHG10)** | | |
| *Status:* | AHG report input to JCT-VC | | |
| *Purpose:* | AHG report | | |
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| *Source:* | AHG | | |

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# Abstract

This document reports on the work of the JCT-VC ad hoc group on SHVC core experiment (AHG10) between the 12th JCT-VC meeting in Geneva, Switzerland (14-23 Jan. 2013) and 13th JCT-VC meeting in Incheon, Korea (18–26 Apr. 2013), and lists the related input documents.

# Mandate

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| **Title and Email Reflector** | **Chairs** | **Meeting** |
| **SHVC tool experiments (AHG10)**  ([jct-vc@lists.rwth-aachen.de](mailto:jct-vc@lists.rwth-aachen.de))   * Establish configurations for SHVC core experiments * Generate anchors used for SHVC core experiments * Create reporting sheets for core experiments * Provide configuration data two weeks after software is available * Discuss and identify additional issues related to SHVC core experiments | X. Li (chair), J. Boyce, P. Onno, Y. Ye (vice‑chairs) | N |

# Summary of activities related to mandates

* Configurations for SHVC core experiments were discussed via JCT-VC main email reflector.
* The configuration files of SHVC core experiments, the anchor data and the reporting sheets were released on Feb. 11th 2013.

# Open issues related to SHVC core experiments

* It was suggested to include LD-B cases as mandatory tests via JCT-VC main email reflector.
* When generating the anchor of HM single layer coding and HM simulcast, both HM and SHM (with inter-layer prediction disabled) software may be used. However, the two software lead to slightly different bitstr;eams though identical PSNR. It is suggested to clearly define which software shall be used to generate the anchor for future meetings.
* According to “Requirements of the scalable enhancement of HEVC (w12956)”, different picture aspect ratios (PARs) across the layers shall be supported. The question on whether such cases shall be tested was raised via JCT-VC main email reflector. It was noted that some different resolution base layers could be made available for optional experiments.

# Recommendations

The SHVC tool experimentAHG recommends for the JCT-VC to

* discuss open issues listed in section 3.

# References

1. G. Sullivan, and J.-R. Ohm, “Meeting report of the 12th meeting of the Joint Collaborative Team on Video Coding (JCT-VC)”, Geneva, CH, 14–23 Jan. 2013.