**INTERNATIONAL ORGANIZATION FOR STANDARDIZATION
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ISO/IEC JTC 1/SC 29/WG 04 MPEG VIDEO CODING**

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Title   **TMIV 17.1 anchors**
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1. Introduction

This document provides the generated ISO/IEC 23090-12 MPEG immersive video (MIV) anchors based on the Common Test Conditions for MPEG immersive video [N0372] and with the use of the Test model 17 for MPEG immersive video (TMIV) reference software 17.1. The crosscheck was successful.

The A65 anchor is based on Test model 17 for MPEG immersive video (TMIV) reference software 17.1 and VVenC software, version 1.7.0. The G65 anchor was not generated, as the software changes between TMIV 16.0 and TMIV 17.1 do not affect it. Therefore, G65 results are copied from the previous anchor generation report [N0343].

All anchors were generated for QP values defined in the MIV CTC [N0372].

2. Anchor generation and crosschecking

The A65 anchor was generated by Philips and crosschecked by Poznan University of Technology (PUT). The results were generated for mandatory content and sequences D03, J01, L01, and L03. PUT used GCC 11.1 compiler, Philips used Clang 17.0.2. The crosscheck was not exact, but reported differences are negligible. The difference may be caused by different configuration of the optimizer, but it was not analyzed.

As written in [N0343], the results for G65 anchor for all the content were generated by PUT. The results for mandatory content were fully crosschecked both by Philips and Electronics and Telecommunications Research Institute (ETRI). PUT used the GCC 11.1 compiler, Philips: GCC 13.1, and ETRI used VC16. The crosscheck was not exact, but reported differences are negligible.

The anchors were generated for mandatory and optional content. However, the results for optional content were not crosschecked.

3. Results

The CTC reporting templates are attached to this document:

- TMIV17.1_A65.xlsm
- TMIV17.1_G65.xlsm

The templates contain results obtained using Clang 17.0.2 and GCC 11.1, respectively.