International Standard

ISO/IEC 23090-25

First edition
2025-01

Information technology — Coded representation of immersive media —

Part 25: Conformance and reference software for carriage of visual volumetric video-based coding data

Technologies de l'information — Représentation codée de média immersifs —

Partie 25: Conformité et logiciel de référence pour le transport de données de codage basé sur la vidéo volumétrique

Reference number
ISO/IEC 23090-25:2025(en)

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Published in Switzerland

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives or www.iec.ch/members_experts/refdocs).

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This document was prepared by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, Subcommittee SC 29, *Coding of audio, picture, multimedia and hypermedia information*.

A list of all parts in the ISO/IEC 23090 series can be found on the ISO and IEC websites.

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Introduction

The conformance and reference software in this document serves two main purposes:

— Validation of the written specification of ISO/IEC 23090-10;

— Conformance testing for checking interoperability for the various applications against the reference software which aims to be compliant with ISO/IEC 23090-10.

The reference software is structured as an extension of the ISOBMFF reference software library and provides additional functions required for ISO/IEC 23090-10. In addition, it includes a small command line application that uses the library to perform some basic file operations such as multiplexing and demultiplexing a file.

Furthermore, this document is accompanied by a collection of conformance files. These files provide practical demonstrations of various features of ISO/IEC 23090-10, aiding in a more comprehensive understanding and application of ISO/IEC 23090-10.

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Information technology — Coded representation of immersive media —

Part 25: Conformance and reference software for carriage of visual volumetric video-based coding data

1 Scope

This document specifies the reference software for carriage of V3C data as specified in ISO/IEC 23090-10. The information provided describes the reference software modules and the features that it supports. It also provides a description of how the reference software can be utilized. Finally, it also provides a description of conformance test vectors.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 23090-10, *Information technology — Coded representation of immersive media — Part 10: Carriage of visual volumetric video-based coding data*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Abbreviated terms

ISOBMFF	ISO base media file format
MIV	MPEG immersive video
PCC	point cloud compression
V3C	visual volumetric video-based coding
V-PCC	video-based point cloud compression

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