



**International
Standard**

ISO/IEC 23090-25

**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*

**First edition
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Foreword

ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission) form the specialized system for worldwide standardization. National bodies that are members of ISO or IEC participate in the development of International Standards through technical committees established by the respective organization to deal with particular fields of technical activity. ISO and IEC technical committees collaborate in fields of mutual interest. Other international organizations, governmental and non-governmental, in liaison with ISO and IEC, also take part in the work.

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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.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html and www.iec.ch/national-committees.

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.

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*