INTERNATIONAL STANDARD

ISO/IEC 23008-4

First edition
2020-06

Information technology — High efficiency coding and media delivery in heterogeneous environments —

Part 4: MMT reference software

Technologies de l'information — Codage à haute efficacité et livraison des medias dans des environnements hétérogènes —

Partie 4: Logiciel de référence pour le transport des médias MPEG (MMT)

Reference number
ISO/IEC 23008-4:2020(E)

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Published in Switzerland

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Foreword

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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 23008 series can be found on the ISO website.

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Introduction

The MMT reference and conformance software is defined as part of the MPEG-H standard in this document. This document outlines the MMT reference and conformance software and describes how it is used for conformance testing. It also collects a list of MMT features that need to be verified as part of conformance testing.

The attachment, available at https://standards.iso.org/iso-iec/23008/-4/ed-1/en, contains the updated reference software source code implementing the MPEG media transport: MMT.tar.gz.

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Information technology — High efficiency coding and media delivery in heterogeneous environments —

Part 4: MMT reference software

1 Scope

This document provides the reference software for MMT and its description.

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 23008-1, *Information technology — High efficiency coding and media delivery in heterogeneous environments — Part 1: MPEG media transport (MMT)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions given in ISO/IEC 23008-1 apply.

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

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

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

4 General

The reference and conformance software operates according to Figure 1. It takes as input the MPUs, generic files and signalling messages that are to be transmitted. The MMTP sender then generates the MMTP flow as a multiplex of MMTP packets from the different sources and uses BSD sockets to send them to a pre-configured destination IP address and port number using MMTP over UDP. The MMTP receiver de-multiplexes the MMTP flow based on the *packet_id* and the *mode* and passes the packets to the corresponding reconstruction module. The reconstruction module extracts the payload and reconstructs the resource (i.e. the MPU, the generic file, or the signalling message).

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