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Part 1: MPEG media transport (MMT)

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Partie 1: Transport des médias MPEG

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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*.

This third edition cancels and replaces the second edition (ISO/IEC 23008-1:2017), which has been technically revised. It also incorporates the Amendment ISO/IEC 23008-1:2017/Amd 1:2017.

The main changes are as follows:

— addition of signalling message for layout configuration;

— addition of signalling messages related to delivery over mobile networks;

— addition of signalling messages to support multipath delivery;

— addition of procedcure for session setup and control;

— addition of procedcure for using WebSockets.

A list of all parts in the ISO/IEC 23008 series can be found on the ISO and IEC websites.

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Introduction

This document specifies the MPEG media transport (MMT) technologies for the transport and delivery of coded media data for multimedia services over heterogeneous packet-switched networks including internet protocol (IP) networks and digital broadcasting networks. In this document, "coded media data" includes both timed audiovisual media data and non-timed data.

MMT is designed under the assumption that the coded media data will be delivered over a packet-switched delivery network. Several characteristics of such delivery environment, such as non-constant end-to-end delay of each packet from the sending entity to the receiving entity, have been taken into consideration.

For efficient and effective delivery and consumption of coded media data over packet-switched delivery networks, this document provides the following elements:

— the logical model to construct contents composed of components from various sources, for example, components of mash-up applications;

— the formats to convey information about the coded media data, to enable delivery layer processing, such as packetization;

— the packetization method and the structure of the packet to deliver media content over packet-switched networks supporting media and coding independent hybrid delivery over multiple channels;

— the format of the signalling messages to manage delivery and consumption of media content.