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Part 1: MPEG media transport (MMT)

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

Partie 1: Transport des médias MPEG



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Contents

	Page
Foreword	vii
Introduction	viii
1 Scope	1
2 Normative references	1
3 Terms, definitions and abbreviated terms	1
3.1 Terms and definitions.....	1
3.2 Abbreviated terms.....	4
4 Conventions	6
5 Overview	6
6 MMT data model	9
6.1 General.....	9
6.2 Package.....	9
6.3 Asset.....	10
6.4 Media processing unit (MPU).....	11
6.5 Asset delivery characteristics.....	12
6.5.1 General.....	12
6.5.2 ADC descriptors.....	12
6.5.3 Syntax.....	13
6.5.4 Semantics.....	14
6.6 Bundle delivery characteristics.....	15
6.6.1 General.....	15
6.6.2 BDC descriptors.....	15
6.6.3 Syntax.....	15
6.6.4 Semantics.....	16
7 ISOBMFF-based MPU	17
7.1 General.....	17
7.2 MPU brand definition.....	18
7.3 MPU box.....	19
7.3.1 Definition.....	19
7.3.2 Syntax.....	19
7.3.3 Semantics.....	20
8 MMT hint track	20
8.1 General.....	20
8.2 Sample description format.....	21
8.2.1 Definition.....	21
8.2.2 Syntax.....	21
8.2.3 Semantics.....	21
8.3 Sample format.....	21
8.3.1 Definition.....	21
8.3.2 Syntax.....	21
8.3.3 Semantics.....	22
9 Packetized delivery of Package	23
9.1 General.....	23
9.2 MMT protocol.....	23
9.2.1 General.....	23
9.2.2 Structure of an MMTP packet.....	24
9.2.3 Semantics.....	25
9.2.4 MMTP session description information.....	29
9.3 MMTP payload.....	29
9.3.1 General.....	29
9.3.2 MPU mode.....	30

This is a preview of "ISO/IEC 23008-1:2023". Click here to purchase the full version from the ANSI store.

9.3.3	Generic file delivery mode	32
9.3.4	Signalling message mode	36
9.4	MMTP operation	37
9.4.1	General	37
9.4.2	Delivering MPUs	38
9.4.3	Delivering generic objects	40
9.4.4	Header compression for MMTP packet	43
10	Signalling	45
10.1	General	45
10.2	Signalling message format	45
10.2.1	General	45
10.2.2	Syntax	45
10.2.3	Semantics	46
10.3	Signalling messages for Package consumption	46
10.3.1	General	46
10.3.2	PA message	47
10.3.3	MPI message	48
10.3.4	MPT message	49
10.3.5	CRI message	50
10.3.6	DCI message	51
10.3.7	PA table	52
10.3.8	MPI table	53
10.3.9	MP table	56
10.3.10	CRI table	59
10.3.11	DCI table	60
10.3.12	Layout Configuration Table	61
10.3.13	SSWR message	63
10.3.14	LS message	64
10.3.15	LR message	65
10.3.16	SI table	66
10.4	Signalling messages for Package delivery	70
10.4.1	Hypothetical receiver buffer model (HRBM) message	70
10.4.2	Measurement configuration (MC) message	71
10.4.3	ARQ configuration (AC) message	73
10.4.4	ARQ feedback (AF) message	74
10.4.5	Reception quality feedback (RQF) message	77
10.4.6	NAM feedback (NAMF) message	79
10.4.7	Low delay consumption (LDC) message	81
10.4.8	Hypothetical receiver buffer model (HRBM) removal message	82
10.4.9	ADC message	84
10.4.10	NAT_Keepalive (NK) message	87
10.4.11	Media Resource Identification (MRI) message	88
10.4.12	Consumption reporting (CR) message	90
10.4.13	Distributed Resource Identification (DRI) message	91
10.4.14	Distributed Signaling Information (DSI) message	94
10.4.15	Bandwidth Probing reQuest (BPQ) message	97
10.4.16	Bandwidth Probing Response (BPR) message	98
10.4.17	Pacing Buffer Removal Rate (PRR) message	100
10.4.18	Pacing Buffer Status Feedback (PSF) message	101
10.4.19	Cell congestion information messages	102
10.4.20	MMT Transition Request (MTR) message	103
10.4.21	MMT Transition Notification (MTN) message	105
10.4.22	Asset Change Request (ACR) message	109
10.4.23	CMAF Presentation Description (CPD) Messages	112
10.4.24	Content Selection (CS) Message	113
10.4.25	RTSP message	114
10.4.26	VAST/VMAP Message	115
10.4.27	Service List (SL) information message	117

This is a preview of "ISO/IEC 23008-1:2023". [Click here to purchase the full version from the ANSI store.](#)

10.5	Descriptors.....	119
10.5.1	CRI descriptor.....	119
10.5.2	MPU timestamp descriptor.....	119
10.5.3	Dependency descriptor.....	120
10.5.4	GFDT descriptor.....	121
10.5.5	SI descriptor.....	123
10.5.6	MMT Service Descriptor.....	124
10.5.7	Mobile information descriptor.....	127
10.5.8	Media quality descriptor.....	128
10.5.9	MPU Presentation Region Descriptor.....	129
10.5.10	Asset Group Descriptor.....	130
10.5.11	Access Network Descriptor.....	131
10.5.12	Subtitle Change descriptor.....	132
10.5.13	AT descriptor.....	135
10.6	Syntax element groups.....	136
10.6.1	MMT_general_location_info.....	136
10.6.2	asset_id.....	139
10.6.3	Identifier mapping.....	139
10.6.4	MIME type.....	141
10.7	ID and tags values.....	141
11	Hypothetical receiver buffer model (HRBM).....	144
11.1	General.....	144
11.2	FEC decoding buffer.....	144
11.3	De-jitter buffer.....	145
11.4	MMTP packet decapsulation buffer.....	145
11.5	Usage of HRBM.....	146
11.6	Estimation of end-to-end delay and buffer requirement.....	146
11.7	HRBM signalling.....	146
11.8	HRBM with pacing buffer.....	146
12	Cross layer interface (CLI).....	147
12.1	General.....	147
12.2	Cross layer information.....	147
12.2.1	General.....	147
12.2.2	Top-down QoS information.....	147
12.2.3	Bottom-up QoS information.....	147
12.2.4	Network abstraction for media (NAM).....	147
12.2.5	Syntax.....	148
12.2.6	Semantics.....	148
13	MMTP Session Setup and Control over Unicast.....	149
13.1	Session Description for MMTP.....	149
13.1.1	MMTP Protocol Identifier.....	150
13.1.2	Object Flow Semantics.....	150
13.1.3	Object Flow Descriptors.....	150
13.1.4	SDP Syntax Examples.....	151
13.2	RTSP.....	151
13.2.1	General.....	151
13.2.2	MMT Range Format.....	152
13.2.3	MMT sub-flow Parameter.....	152
13.3	WebSockets for MMTP.....	152
13.3.1	General.....	152
13.3.2	Upgrade to MMT over WebSocket.....	152
13.3.3	Framing in the MMT sub-protocol.....	153
13.3.4	Sub-protocol Registration.....	154
13.4	Multipath Support in MMTP.....	154
13.4.1	General.....	154
13.4.2	Multipath Negotiation.....	155
13.4.3	Session Modification with Multipath.....	157

This is a preview of "ISO/IEC 23008-1:2023". Click here to purchase the full version from the ANSI store.

13.4.4	Feedback Message Enhancements.....	158
14	CDN Support.....	158
14.1	General.....	158
14.2	DNS Resolution of MMT URLs.....	159
14.2.1	General.....	159
14.2.2	DNS query message for MMT URLs.....	159
14.2.3	DNS response message for MMT URLs.....	159
14.2.4	DNS update message of MMT URLs.....	161
14.2.5	Media Resource Update (MRU) Message.....	161
14.2.6	MRI Request (MRIR) message.....	164
14.3	MANE.....	165
14.3.1	Definition.....	165
14.3.2	Interface between MMT sending entity and MANE.....	165
14.3.3	Authentication / Authorization.....	167
14.3.4	Creation of a MMTP session.....	168
14.3.5	Creation of MMTP flow.....	168
14.3.6	MMTP session update.....	170
14.3.7	MMTP flow update.....	171
14.3.8	Termination of MMTP session.....	171
14.3.9	Termination of MMTP flow.....	172
14.3.10	MMTP session query to MANE.....	173
14.3.11	MMTP session measurement feedback.....	173
15	FCAST support in MMT.....	174
15.1	General.....	174
15.2	MMT signalling of resources delivered using FCAST.....	175
15.2.1	General.....	175
15.2.2	Syntax of FCAST location type.....	175
15.2.3	Semantics.....	175
15.3	FCAST over MMTP.....	176
15.3.1	MMTP packet header for FCAST.....	176
15.3.2	MMTP payload header for FCAST mode.....	176
15.3.3	Signalling in MPT for FCAST.....	177
15.3.4	FCAST descriptor.....	177
15.3.5	Metadata collection object.....	178
	Annex A (informative) Jitter calculation in MMTP.....	179
	Annex B (normative) XML syntax and MIME type for signalling message.....	180
	Annex C (normative) Application layer forward error correction (AL-FEC) framework for MMT.....	187
	Annex D (informative) QoS management model for MMT.....	211
	Annex E (informative) Operation of downloadable DRM and CAS.....	213
	Annex F (informative) DASH segment over MMTP.....	214
	Annex G (normative) Scheme of MMT URI.....	217
	Annex H (normative) Transactions on Generic Data Carried over MPEG-H 3D Audio.....	218
	Annex I (informative) Session Migration from HTTP.....	220
	Annex J (informative) MBMS Content Ingestion.....	222
	Annex K (informative) Configuration example.....	225
	Annex L (normative) MMT Mapping of CMAF content.....	229
	Annex M (normative) Carriage of EVC.....	232
	Bibliography.....	233

This is a preview of "ISO/IEC 23008-1:2023". Click here to purchase the full version from the ANSI store.

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*.

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 procedure for session setup and control;
- addition of procedure for using WebSockets.

A list of all parts in the ISO/IEC 23008 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

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.