ISO/IEC 23006-4:2013-02 (E)

Information technology - Multimedia service platform technologies - Part 4: Elementary services

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms, definitions and abbreviated terms 3
3.1 Terms and definitions 3
3.2 Abbreviated terms 5

4 Namespaces and conventions 6
4.1 Namespaces 6
4.2 Namespace convention 9
4.3 Conventions 12

5 Elementary Services 13
5.1 Introduction 13
5.2 Base data types, elements, and common messages 25
5.3 MPEG-M service Schema wrapper 47
5.4 Session control and status polling 49
5.5 The Authenticate Services 56
5.6 The Authorize Services 65
5.7 The Check With Services 68
5.8 The Create Services 74
5.9 The Deliver Services 86
5.10 The Describe Services 94
5.11 The Identify Services 120
5.12 The Negotiate Services 135
5.13 The Package Services 159
5.14 The Post Services 164
5.15 The Present Services 166
5.16 The Process Services 171
5.17 The Request Services 181
5.18 The Revoke Services 202
5.19 The Search Services 210
5.20 The Store Services 226
5.21 The Transact Services 236
5.22 The Verify Services 259

Annex A (normative) Classification Schemes for IPTV offering discovery sections 269

A.1 General 269
A.2 Classification Scheme for ETSI IPTV (DVB-IP) offering discovery sections 269
A.3 Classification Scheme for ATIS IIF offering discovery sections 270

Annex B (normative) Service Types for Process Content 272

B.1 General 272
B.2 Recognize Speech 272

B.3 Synthesize Speech 275
B.4 Process Language 278
B.5 Translate Language 282
B.6 Extract Sensory Information 286
B.7 Content Adaptation 290
B.8 Resource Transcoding 295
B.9 Stream Repurposing 299

Annex C (normative) Schema for Service Instance Declaration 308

C.1 General 308
C.2 Schema Definition of Service Instance Declaration 308
C.3 Semantics of Service Instance Declaration 309

Annex D (normative) Usage of HTTP responses for response messages 311

D.1 General 311

Annex E (informative) Metadata Representation 312

E.1 General 312
E.2 Content metadata 312
E.3 Device Metadata 318
E.4 Service Instance Declaration Metadata 320
E.5 User Metadata 321

Annex F (normative) DIDL restriction for MPEG-M services 324

F.1 Purpose 324
F.2 MPEG-M DIDL Profile 324

Annex G (normative) Classification Schemes 339

G.1 General 339
G.2 AuctionModelCS 339
G.3 IssueTypeCS 343
G.4 TransferProtocolCS 344
G.5 TaggingTypeCS 345
G.6 RTPMediaTypeCS 346
G.7 ProtocolBindingCS 347

Annex H (normative) BPMN 2.0 XML representation of Elementary Services 348

H.1 General 348
H.2 OMG BPMN 2.0 Graphical Description 348
H.3 OMG BPMN 2.0 XML Description 351

Bibliography 358