ISO/IEC 23006-2:2016-12 (E)

Information technology - Multimedia service platform technologies - Part 2: MPEG extensible middleware (MXM) API

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms,definitionsandabbreviatedterms 1
3.1 Terms and definitions 1
3.2 Abbreviated terms 3

4 Namespace conventions 4

5 Common MXM interfaces and classes 7

6 MPEG-M Engines 8
6.1 General 8
6.2 Technology Engines 9
6.2.1 Digital Item Engine 9
6.2.2 MPEG-21 File Format Engine 9
6.2.3 REL Engine 10
6.2.4 IPMP Engine 11
6.2.5 GreenMetadata Engine 11
6.2.6 Media Framework Engine 12
6.2.7 Metadata Engine 16
6.2.8 Event Reporting Engine 16
6.2.9 Security Engine 17
6.2.10 Search Engine 18
6.2.11 Contract Engine 20
6.2.12 Overlay Engine 20
6.2.13 Sensory Effect Engine 21
6.2.14 Compact Descriptor for Visual Search Technology Engine 22
6.3 Protocol Engines 23
6.3.1 General 23
6.3.2 Base Protocol Engine 23
6.3.3 Authenticate Services APIs 25
6.3.4 Authorize Services APIs 25
6.3.5 Check With Services APIs 25
6.3.6 Create Services APIs 26
6.3.7 Deliver Services APIs 26
6.3.8 Describe Services APIs 26
6.3.9 Identify Services APIs 26
6.3.10 Negotiate Services APIs 27
6.3.11 Package Services APIs 27
6.3.12 Post Services APIs 27
6.3.13 Present Services APIs 27
6.3.14 Process Services APIs 27
6.3.15 Request Services APIs 27
6.3.16 Revoke Services APIs 28
6.3.17 Search Services APIs 28

6.3.18 Store Services APIs 29
6.3.19 Transact Services APIs 29
6.3.20 Verify Services APIs 29
6.4 MXM Orchestrator APIs 30
6.4.1 General 30
6.4.2 DID Engine Orchestrator APIs 30
6.4.3 Identify Content Engine Orchestrator APIs 30
6.4.4 Identify User Engine Orchestrator APIs 30

6.4.5 MF Orchestrator Engine APIs 30

Annex A (normative)MXMConfiguration 31

Bibliography 39