ISO/IEC 23000-5:2011-02 (E)

Information technology - Multimedia application format (MPEG-A) - Part 5: Media streaming application format

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Abbreviated terms 3

5 Namespace conventions 3

6 System overview 4

7 Information representation 6
7.1 Introduction 6
7.2 Digital Item 6
7.3 Metadata 6
7.4 Digital Item Signature 7
7.5 Identifiers 7
7.6 Resources 7
7.7 IPMP information 8
7.8 License 8
7.9 Key 8
7.10 IPMPX Messages 8
7.11 Device information 9
7.12 Event Reporting 9
7.13 Binary XML 9

8 Transport protocols 9
8.1 Introduction 9
8.2 Streaming protocols 9
8.3 File format 9

9 Device to Device Protocols 10
9.1 Access Protocols 10
9.2 Domain Management Protocols 10

10 Reference software 10

11 Conformance testing 10

Annex A (normative) Usage of DIDL in the Media Streaming Application Format 11

Annex B (informative) The Media Streaming DIDL profile schemas 17

Annex C (informative) The Media Streaming TV Anytime Profile schema 21

Annex D (normative) Usage of IPMP Components in the Media Streaming Application Format 22

Annex E (informative) Media Streaming IPMP Components schemas 31

Annex F (normative) Media Streaming Application Format file format 39

Annex G (informative) An Example of Media Streaming Application Format: IPTV 40

Annex H (informative) An Example of Media Streaming Application Format: Digital Broadcasting without return channel 51

Annex I (informative) An Example of Media Streaming Application Format: Streaming of interactive video, metadata, multimedia objects and presentation information 55

Annex J (informative) An Example of Media Streaming Application Format: IPTV Marketplace (IPTV-MP) 56

Bibliography 92