ISO/IEC 14496-27:2009-12 (E)

Information technology - Coding of audio-visual objects - Part 27: 3D Graphics conformance

Contents

Page

Foreword iv

Introduction vi

1 Scope 1

2 Normative references 1

3 Terms definitions, abbreviations and symbols 2

4 Tools from ISO/IEC 14496-11, Scene description and application engine, and ISO/IEC 14496-16, Animation Framework eXtension (AFX) 2
4.1 Scene graph nodes 2
4.1.1 Bitstream conformance 2
4.1.2 Terminal conformance 2
4.1.3 Rendering conformance 8
4.2 Elementary bitstreams 8
4.2.1 Common conformance point 8
4.2.2 Geometry bitstreams 9
4.2.3 Appearance bitstreams 20
4.2.4 Animation bitstreams 25
4.2.5 AFX generic backchannel 52
4.2.6 Scene partitioning 53
4.2.7 MPEG-4 3D graphics stream 54
4.3 Profiles 54
4.3.1 Conformance for X3D interactive graphics profiles and levels 54
4.3.2 Conformance for MPEG-4 X3D interactive scene graph profile and levels 56
4.3.3 Conformance for core 3D compression profile 56
4.3.4 Conformance for 3D multiresolution compression profile 57

5 Tools from ISO/IEC 14496-21, MPEG-J Graphics Framework eXtension (GFX) 58
5.1 MPEG-J conformance points 58
5.2 Bitstream conformance 59
5.2.1 MPEG-J conformance 59
5.3 Terminal conformance 60
5.3.1 MPEG-J conformance 61

6 Tools from ISO/IEC 14496-25, 3D Graphics Compression Model 63
6.1 Conformance points 63
6.1.1 Covered functionalities 63
6.2 Bitstream conformance 63
6.2.1 Conformance requirements 63
6.2.2 Measurement procedure 63
6.2.3 Tolerance 63
6.3 Terminal conformance 64
6.3.1 Conformance requirements 64
6.3.2 Test bitstreams 64
6.3.3 Measurement procedure 64
6.3.4 Tolerance 64