ISO/IEC 23090-25:2025-01 (E)

Information technology - Coded representation of immersive media - Part 25: Conformance and reference software for carriage of visual volumetric video-based coding data

Contents

Page

Foreword ..... **v**

Introduction ..... **vi**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Abbreviated terms **1**

5 Reference software for ISO/IEC 23090-10 ..... **2**

5.1 General 2

5.2 Architecture 2

5.3 Features 2

5.4 V3C carriage library API 4

5.4.1 General 4

5.4.2 V3CCreateBox 4

5.4.3 V3CCreateAtlasParamSampleGroupDescriptionEntry 4

5.4.4 V3CAddSetupUnitToAtlasParamSampleGroupEntry 5

5.4.5 V3CPutAtlasParamSampleGroupEntry 5

5.4.6 V3CGetAtlasParamSampleGroupDescriptionEntryNALCnt 5

5.4.7 V3CGetNALUnitFromAtlasParamSampleGroupEntry 5

5.4.8 V3CNewBitstreamSampleEntry 6

5.4.9 V3CNewAtlasSampleEntry 6

5.4.10 V3CNewAtlasTileSampleEntry 6

5.4.11 V3CAddV3CParameterSet 6

5.4.12 V3CAddSetupUnit 7

5.4.13 V3CAddUnitHeader 7

5.4.14 V3CAddTileId 7

5.4.15 V3CSetLodIdx 7

5.4.16 V3CGetCommonInfoFromSampleEntry 7

5.4.17 V3CGetUnitHeaderInfoFromResvSampleEntry 8

5.4.18 V3CGetV3CParameterSet 8

5.4.19 V3CGetSetupUnit 9

5.4.20 V3CGetUnitHeader 9

5.4.21 V3CGetSetupUnitCnt 9

5.4.22 V3CGetTileIdCnt 9

5.4.23 V3CGetTileId 9

5.4.24 V3CGetLodIdx 10

5.4.25 V3CParseBox 10

5.4.26 V3CParseUnknownBox 10

5.4.27 V3CNewVideoHEVCSampleEntry 10

5.5 Usage of V3CCarriageApp 10

5.6 Copyright disclaimer for software modules 11

6 Conformance for ISO/IEC 23090-10 ..... **11**

6.1 General 11

6.2 Timed V3C for DASH 11

6.2.1 General 11

6.2.2 RedAndBlack 12

6.2.3 Soldier 13
6.2.4 LongDress 13
6.2.5 Mitch 13
6.2.6 Thomas 14
6.3 Timed V3C 14
6.3.1 General 14
6.3.2 timed_vpcc_01.mp4 15
6.3.3 timed_vpcc_02.mp4 15
6.3.4 timed_miv_01.mp4 15
6.3.5 timed_miv_02.mp4 16
6.3.6 S24C2RAR04_redandblack.mp4 16
6.3.7 S25C2RAR04_soldier.mp4 16
6.3.8 S26C2RAR04_longdress.mp4 16
6.3.9 S42C2RAR04_mitch.mp4 16
6.3.10 S43C2RAR04_thomas.mp4 16
6.4 Non-timed V3C 16
6.4.1 General 16
6.4.2 non_timed_vpcc_01.mp4 17
6.4.3 non_timed_miv_01.mp4 17
Bibliography **18**