**INTERNATIONAL ORGANISATION FOR STANDARDISATION**

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**ISO/IEC JTC 1/SC 29/WG 11**

**CODING OF MOVING PICTURES AND AUDIO**

**ISO/IEC JTC 1/SC 29/WG 11 N18116**

**Marrakech, MA – January 2019**

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| **Source:** | **Leonardo Chiariglione** |
| **Title:** | **MPEG time line** |

**MPEG time line**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Std** | **Part** | **Title** | **Type** | **E#** | **125** | ***126*** | ***127*** | ***128*** | ***129*** | ***130*** | ***131*** | ***132*** |
| 2 | **1** - Systems | Carriage of JPEG XS in MPEG-2 TS | AMD | 1 | **DAM** | **FDAM** |  |  |  |  |  |  |
| 2 | **1** - Systems | Carriage of associated CMAF boxes for audio-visual elementary streams in MPEG-2 TS | AMD | 2 | **WD** | **PDAM** | **DAM** | **DAM** | **FDAM** |  |  |  |
| 4 | **3** - Audio | Audio | STD | 5 | **FDIS** |  |  |  |  |  |  |  |
| 4 | **10** - Advanced Video Coding | Additional supplemental enhancement information | AMD | 1 |  |  |  |  |  |  |  |  |
| 4 | **12** - ISO Base Media File Format | Box relative data addressing | AMD | 2 | **DAM** | **FDAM** |  |  |  |  |  |  |
| 4 | **12** - ISO Base Media File Format | Corrected audio handling | AMD | 3 | **DAM** | **DAM** | **FDAM** |  |  |  |  |  |
| 4 | **15** - Carriage of NAL unit structured video in the ISO Base Media File Format | Carriage of NAL unit structured video in the ISO Base Media File Format | STD | 5 | **FDIS** |  |  |  |  |  |  |  |
| 4 | **22** - Open Font Format | Colour font technology and other updates | AMD | 1 | **PDAM** | **PDAM** | **DAM** | **DAM** | **DAM** | **FDAM** |  |  |
| 4 | **32** - Reference software and conformance for file formats | Reference Software and Conformance for File Format | STD | 1 | **FDIS** |  |  |  |  |  |  |  |
| 4 | **34** - Registration Authorities | Registration Authority for MPEG-4 | STD | 1 | **WD** | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |
| 7 | **16** - Conformance and Reference Software for Compact Descriptors for Video Analysis | Conformance and Reference Software for Compact Descriptors for Video Analysis | STD | 1 | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |  |
| 21 | **22** - User Description | User Description | STD | 2 | **FDIS** |  |  |  |  |  |  |  |
| A | **19** - Common Media Application Format | HEVC Media Profiles update, new CMAF Structural Brand and other improvements | AMD | 3 | **DAM** | **DAM** | **DAM** | **FDAM** |  |  |  |  |
| A | **21** - Visual Identity Management Application Format | Visual Identity Management Application Format | STD | 1 | **FDIS** |  |  |  |  |  |  |  |
| B | **7** - Common Encryption for ISO Base Media File Format Files | Multi-Keyed Samples, Content Sensitive Encryption and Item Protection | AMD | 1 | **DAM** | **DAM** | **FDAM** |  |  |  |  |  |
| B | **13** - Media orchestration | Multimedia Orchestration Reference Software | AMD | 1 | **WD** | **PDAM** | **DAM** | **DAM** | **FDAM** |  |  |  |
| B | **14** - Partial File Format | Partial File Format | STD | 2 | **WD** | **WD** | **WD** | **DIS** | **DIS** | **DIS** | **FDIS** |  |
| B | **15** - Carriage of Web Resources in ISOBMFF | Carriage of Web Resource in ISOBMFF | STD | 1 | **DIS** | **DIS** | **DIS** | **DIS** | **FDIS** |  |  |  |
| D | **3** - Unified Speech and Audio Coding | Unified Speech and Audio Coding | STD | 2 | **FDIS** |  |  |  |  |  |  |  |
| D | **4** - Dynamic Range Control | DRC Conformance | AMD | 3 |  |  |  |  |  |  |  |  |
| D | **4** - Dynamic Range Control | Dynamic Range Control Conformance | AMD | 4 |  |  |  |  |  |  |  |  |
| D | **5** - Uncompressed Audio in MP4 FF | Uncompressed Audio in MP4 FF | STD | 1 | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |  |
| V | **7** - Reference Software and Conformance | Reference Software and Conformance | STD | 4 | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |  |
| H | **1** - MPEG Media Transport | MPEG Media Transport | STD | 3 | **WD** | **FDIS** |  |  |  |  |  |  |
| H | **1** - MPEG Media Transport | MPEG Media Transport CDN support | AMD | 3 | **DAM** | **FDAM** |  |  |  |  |  |  |
| H | **2** - High Efficiency Video Coding | High Efficiency Video Coding | STD | 4 | **FDIS** |  |  |  |  |  |  |  |
| H | **2** - High Efficiency Video Coding | Additional supplemental enhancement information for HEVC | AMD | 1 | **PDAM** | **DAM** | **DAM** | **FDAM** |  |  |  |  |
| H | **4** - MMT Reference Software | MMT Reference Software with Network Capabilities | AMD | 1 | **DAM** | **FDAM** |  |  |  |  |  |  |
| H | **4** - MMT Reference Software | Support for MMTP extensions | AMD | 2 | **WD** | **WD** | **PDAM** | **DAM** | **DAM** | **DAM** | **FDAM** |  |
| H | **6** - 3D Audio Reference Software | 3D audio reference software | STD | 2 | **DIS** | **FDIS** |  |  |  |  |  |  |
| H | **7** - MMT Conformance testing | MMT Conformance Testing | STD | 1 | **DIS** | **DIS** | **DIS** | **FDIS** |  |  |  |  |
| H | **8** - HEVC Conformance testing | Conformance testing for Screen Content Coding | AMD | 1 | **DAM** | **FDAM** |  |  |  |  |  |  |
| H | **10** - MPEG Media Transport FEC Codes | Window-based FEC code | AMD | 1 | **WD** | **PDAM** | **DAM** | **DAM** | **FDAM** |  |  |  |
| H | **12** - Image File Format | Image File Format | STD | 3 | **FDIS** |  |  |  |  |  |  |  |
| H | **13** - MMT Implementation Guidelines | MPEG Media Transport Implementation Guidelines | TR | 4 | **WD** | **WD** | **PDTR** | **PDTR** | **TR** |  |  |  |
| DASH | **1** - Media presentation description and segment formats | Device information and other extensions | AMD | 5 | **DAM** | **DAM** | **FDAM** |  |  |  |  |  |
| DASH | **1** - Media presentation description and segment formats | Media presentation description and segment formats/Cor.3 | COR | 3 | **COR** |  |  |  |  |  |  |  |
| DASH | **2** - Reference software and conformance | Conformance and reference software regarding SRD, SAND and Server Push | AMD | 1 | **DAM** | **FDAM** |  |  |  |  |  |  |
| DASH | **3** - Implementation guidelines | MPEG-DASH Implementation Guidelines | TR | 2 | **WD** | **PDTR** | **TR** |  |  |  |  |  |
| DASH | **4** - Format Independent Segment encryption and authentication | Format Independent Segment encryption and authentication/COR 1 | COR | 1 | **DCOR** | **DCOR** | **COR** |  |  |  |  |  |
| DASH | **7** - Delivery of CMAF content with DASH | Delivery of CMAF content with DASH | TR | 1 | **WD** | **PDTR** | **TR** |  |  |  |  |  |
| DASH | **8** - Session based DASH operation | Session based DASH operations | STD | 1 | **WD** | **WD** | **CD** | **DIS** | **DIS** | **DIS** | **FDIS** |  |
| I | **2** - Omnidirectional MediA Format | Omnidirectional MediA Format | STD | 2 | **WD** | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |
| I | **3** - Versatile Video Coding | Versatile Video Coding | STD | 1 | **WD** | **WD** | **WD** | **CD** | **DIS** | **DIS** | **DIS** | **FDIS** |
| I | **4** - Immersive Audio | Immersive Audio | STD | 1 |  | **CfP** | **CfP** | **CfP** | **WD** | **WD** | **CD** |  |
| I | **5** - Video-based Point Cloud Compression | Video-based Point Cloud Compression | STD | 1 | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |  |
| I | **6** - Immersive Media Metrics | Immersive Media Metrics | STD | 1 | **WD** | **WD** | **WD** | **CD** | **DIS** | **DIS** | **FDIS** |  |
| I | **7** - Immersive Media Metadata | Immersive Media Metadata | STD | 1 | **WD** | **WD** | **WD** | **CD** | **DIS** | **DIS** | **FDIS** |  |
| I | **8** - Network-based Media Processing | Network-Based Media Processing | STD | 1 | **CD** | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |
| I | **9** - Geometry-based Point Cloud Compression | Geometry-based Point Cloud Compression | STD | 1 | **WD** | **CD** | **CD** | **DIS** | **DIS** | **FDIS** |  |  |
| I | **10** - Carriage of Point Cloud Data | Carraige of Point Cloud Data | STD | 1 | **WD** | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |
| CICP | **4** - Usage of video signal type code points | Usage of video signal type code points | TR | 1 | **PDTR** | **TR** |  |  |  |  |  |  |
| G | **1** - Transport and Storage of Genomic Information | Transport and Storage of Genomic Information | STD | 1 | **FDIS** |  |  |  |  |  |  |  |
| G | **2** - Genomic Information Representation | Genomic Information Representation | STD | 1 | **FDIS** |  |  |  |  |  |  |  |
| G | **3** - Genomic Information Metadata and Application Programming Interfaces (APIs) | API and Metadata | STD | 1 | **DIS** | **FDIS** |  |  |  |  |  |  |
| G | **4** - Reference Software | Reference software and conformance | STD | 1 | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |  |
| G | **5** - Conformance | Conformance | STD | 1 | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |  |
| IOMT | **1** - IoMT Architecture | IoMT Architecture | STD | 1 | **DIS** | **FDIS** |  |  |  |  |  |  |
| IOMT | **2** - IoMT Discovery and Communication API | IoMT Discovery and Communication API | STD | 1 | **DIS** | **FDIS** |  |  |  |  |  |  |
| IOMT | **3** - IoMT Media Data Formats and API | IoMT Media Data Formats and API | STD | 1 | **DIS** | **FDIS** |  |  |  |  |  |  |
| IOMT | **4** - IoMT Reference Software and Conformance | IoMT Reference Software and Conformance | STD | 1 | **WD** | **CD** | **CD** | **DIS** | **DIS** | **FDIS** |  |  |
| ­­ | **1** - Essential Video Coding | Essential Video Coding | STD | 1 | **WD** | **CD** | **DIS** | **DIS** | **FDIS** |  |  |  |
| Exp | **7** - Immersive Video | Immersive video - 3DoF+ | EXP | 1 | **CfP** |  |  |  |  |  |  |  |
| Exp | **7** - Immersive Video | Immersive video - 6DoF | EXP | 2 | **EXP** | **EXP** |  |  |  |  |  |  |
| Exp | **7** - Immersive Video | Compression of dense representation of light fields | EXP | 3 | **EXP** | **EXP** |  |  |  |  |  |  |
| Exp | **28** - In advance signalling of MPEG containers content | In-advance signalling of MPEG containers content | EXP | 1 | **EXP** |  |  |  |  |  |  |  |
| Exp | **29** - Compressed representation of neural networks | Compressed Representation of Neural Networks | EXP | 1 | **CfP** |  |  |  |  |  |  |  |
| Exp | **31** - Low Complexity Video Coding Enhancements | Capability Extension of Existing Video Codec | EXP | 31 | **CfP** |  |  |  |  |  |  |  |
| Exp | **32** - Data Compression | Data Compression | EXP | 1 | **EXP** |  |  |  |  |  |  |  |