

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

**Coding of moving pictures and audio**

**Convenorship: UNI (Italy)**

**ISO/IEC JTC 1/SC 29/WG 11 N18754**

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**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 N18754**

**Geneva, CH – October 2019**

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| **Title:** | **WG 11 time line** |

**WG 11 time line**

Legend 1

|  |  |  |
| --- | --- | --- |
| Std | ISO/IEC | Title |
| 1 | 11172 | Coding of moving pictures and associated audio for digital storage media at up to about 1,5 Mbit/s |
| 2 | 13818 | Generic coding of moving pictures and associated audio information |
| 4 | 14496 | Coding of audio-visual objects |
| 7 | 15938 | Multimedia content description interface |
| 21 | 21000 | Multimedia Framework |
| A | 23000 | Multimedia Application Formats |
| B | 23001 | MPEG systems technologies |
| C | 23002 | MPEG video technologies |
| D | 23003 | MPEG audio technologies |
| E | 23004 | Multimedia Middleware |
| V | 23005 | Media context and control |
| M | 23006 | Multimedia service platform technologies |
| U | 23007 | Rich media user interfaces |
| H | 23008 | High efficiency coding and media delivery in heterogeneous environments |
| DASH | 23009 | Dynamic adaptive streaming over HTTP (DASH) |
| I | 23090 | Coded representation of immersive media |
| CICP | 23091 | Coding-Independent Code-Points |
| G | 23092 | Genomic Information Representation |
| IoMT | 23093 | Internet of Media Things |
| 5 | 23094 | General Video Coding |
| Exp |  | Explorations |

Legend 2

|  |  |  |
| --- | --- | --- |
| **Meeting** | **Month** | **Year** |
| 127 | 07 | 19 |
| 128 | 10 | 19 |
| 129 | 01 | 20 |
| 130 | 04 | 20 |
| 131 | 07 | 20 |
| 132 | 10 | 20 |
| 133 | 01 | 21 |
| 134 | 04 | 21 |
| 135 | 07 | 21 |
| 136 | 10 | 21 |
| 137 | 01 | 22 |
| 138 | 04 | 22 |
| 139 | 07 | 22 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Std** | **Pt** | | **Title** | **Type** | **E#** | **128** | **129** | | **130** | | | **131** | | **132** | **133** | | **134** | | | **135** | | **136** | | | **137** | | **138** | **139** |
| 2 | 1 | Carriage of VVC in MPEG-2 TS | | AMD | 2 | **WD** | | **WD** | | **CDAM** | **DAM** | | **DAM** | | | **FDAM** | |  |  | |  | |  |  | |  | | |
| 2 | 1 | Corrigendum | | COR | 1 | **DCOR** | | **DCOR** | | **COR** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| 4 | 10 | Items for future corrections of spec | | EXP | 1 | **EXP** | | **EXP** | | **EXP** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| 4 | 12 | Compact movie fragments | | AMD | 4 | **DAM** | | **DAM** | | **DAM** | **FDAM** | |  | | |  | |  |  | |  | |  |  | |  | | |
| 4 | 12 | EventMessage Track Format | | AMD | 5 | **WD** | | **WD** | | **CDAM** | **DAM** | | **DAM** | | | **FDAM** | |  |  | |  | |  |  | |  | | |
| 4 | 15 | HEVC Carriage Improvements | | AMD | 1 | **DAM** | | **DAM** | | **FDAM** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| 4 | 15 | Carriage of VVC in ISOBMFF | | AMD | 2 | **WD** | | **WD** | | **CDAM** | **DAM** | | **DAM** | | | **FDAM** | |  |  | |  | |  |  | |  | | |
| 4 | 22 | Colour font technology and other updates | | AMD | 1 | **DAM** | | **DAM** | | **FDAM** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| 4 | 32 | Reference Software and Conformance for File Format [2nd edtion] | | STD | 2 | **WD** | | **WD** | | **CD** | **DIS** | | **DIS** | | | **FDIS** | |  |  | |  | |  |  | |  | | |
| 4 | 34 | Registration Authority for MPEG-4 | | STD | 1 | **WD** | | **CD** | | **DIS** | **DIS** | | **DIS** | | | **FDIS** | |  |  | |  | |  |  | |  | | |
| 7 | 16 | Conformance and Reference Software for Compact Descriptors for Video Analysis | | STD | 1 | **DIS** | | **FDIS** | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| 7 | 17 | Compressed Representation of Neural Networks | | STD | 1 | **WD** | | **WD** | | **CD** | **DIS** | | **DIS** | | | **FDIS** | |  |  | |  | |  |  | |  | | |
| A | 19 | Additional media profile for CMAF | | AMD | 1 | **WD** | | **WD** | | **CDAM** | **DAM** | | **DAM** | | | **FDAM** | |  |  | |  | |  |  | |  | | |
| A | 21 | Reference Software and Conformance for Visual Identity Management Application Format | | AMD | 1 | **CDAM** | | **DAM** | | **DAM** | **FDAM** | |  | | |  | |  |  | |  | |  |  | |  | | |
| A | 22 | Reference Software and Conformance for Multi Image Application Format | | AMD | 1 | **WD** | | **WD** | | **CDAM** | **DAM** | | **DAM** | | | **FDAM** | |  |  | |  | |  |  | |  | | |
| B | 7 | Common Encryption for ISO Base Media File Format [4th edition] | | STD | 4 | **WD** | | **WD** | | **CD** | **DIS** | | **DIS** | | | **FDIS** | |  |  | |  | |  |  | |  | | |
| B | 10 | Carriage of Timed Metadata Metrics of Media in ISO Base Media File Format | | STD | 2 | **WD** | | **WD** | | **CD** | **DIS** | | **DIS** | | | **FDIS** | |  |  | |  | |  |  | |  | | |
| B | 13 | Multimedia Orchestration Reference Software | | AMD | 1 | **CDAM** | | **DAM** | | **DAM** | **FDAM** | |  | | |  | |  |  | |  | |  |  | |  | | |
| B | 14 | Partial File Format | | STD | 2 | **WD** | | **WD** | | **CD** | **DIS** | | **DIS** | | | **FDIS** | |  |  | |  | |  |  | |  | | |
| B | 16 | Derived Visual Tracks in ISOBMFF | | STD | 1 | **WD** | | **WD** | | **DIS** | **DIS** | | **DIS** | | | **FDIS** | |  |  | |  | |  |  | |  | | |
| C | 7 | Supplemental enhancement information messages for coded video bitstreams | | STD | 1 | **DIS** | | **DIS** | | **FDIS** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| D | 5 | Uncompressed Audio in MP4 FF | | STD | 1 | **DIS** | | **FDIS** | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| V | 7 | Reference Software and Conformance | | STD | 4 | **FDIS** | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| H | 1 | Support of FCAST | | AMD | 1 | **CDAM** | | **CDAM** | | **DAM** | **DAM** | | **FDAM** | | |  | |  |  | |  | |  |  | |  | | |
| H | 2 | Items for future modifications of spec | | EXP | 1 | **EXP** | | **EXP** | | **EXP** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| H | 2 | Additional supplemental enhancement information for HEVC | | AMD | 1 | **FDAM** | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| H | 3 | Corrections and Improvements on 3D Audio | | AMD | 2 | **CDAM** | | **DAM** | | **DAM** | **FDAM** | |  | | |  | |  |  | |  | |  |  | |  | | |
| H | 4 | Support for MMTP extensions | | AMD | 1 | **CDAM** | | **DAM** | | **DAM** | **FDAM** | |  | | |  | |  |  | |  | |  |  | |  | | |
| H | 7 | MMT Conformance Testing | | STD | 1 | **DIS** | | **FDIS** | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| H | 8 | Conformance testing for Screen Content Coding | | AMD | 1 |  | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| H | 10 | Window-based FEC code | | AMD | 1 | **DAM** | | **DAM** | | **FDAM** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| H | 12 | support for predictive image coding, bursts, bracketing, and other improvements | | AMD | 1 | **DAM** | | **DAM** | | **FDAM** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| H | 13 | MPEG Media Transport Implementation Guidelines | | TR | 4 | **WD** | | **WD** | | **PDTR** | **TR** | |  | | |  | |  |  | |  | |  |  | |  | | |
| DASH | 1 | CMAF support, events processing model and other extensions | | AMD | 1 | **CDAM** | | **DAM** | | **DAM** | **FDAM** | |  | | |  | |  |  | |  | |  |  | |  | | |
| DASH | 3 | MPEG-DASH Implementation Guidelines | | TR | 2 | **WD** | | **WD** | | **WD** | **PDTR** | | **PDTR** | | | **TR** | |  |  | |  | |  |  | |  | | |
| DASH | 4 | Format Independent Segment encryption and authentication/COR 1 | | COR | 1 | **DCOR** | | **COR** | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| DASH | 5 | Improvements on SAND messages | | AMD | 1 | **FDAM** | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| DASH | 7 | Delivery of CMAF content with DASH | | TR | 1 | **WD** | | **WD** | | **PDTR** | **PDTR** | | **TR** | | |  | |  |  | |  | |  |  | |  | | |
| DASH | 8 | Session based DASH operations | | STD | 1 | **WD** | | **CD** | | **DIS** | **DIS** | | **FDIS** | | |  | |  |  | |  | |  |  | |  | | |
| I | 1 | ISO/IEC NP TR 23090-1 | | TR | 1 | **TR** | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 2 | Omnidirectional MediA Format [2nd edition] | | STD | 2 | **CD** | | **DIS** | | **DIS** | **FDIS** | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 2 | Reference software and conformance for OMAF | | AMD | 1 | **WD** | | **CDAM** | | **DAM** | **DAM** | | **FDAM** | | |  | |  |  | |  | |  |  | |  | | |
| I | 3 | Versatile Video Coding | | STD | 1 | **DIS** | | **DIS** | | **DIS** | **FDIS** | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 4 | Immersive Audio | | STD | 1 |  | | **CfP** | | **CfP** | **CfP** | | **CfP** | | | **WD** | | **WD** | **CD** | | **DIS** | | **DIS** | **FDIS** | |  | | |
| I | 5 | Video-based Point Cloud Compression | | STD | 1 | **DIS** | | **DIS** | | **FDIS** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 6 | Immersive Media Metrics | | STD | 1 | **CD** | | **CD** | | **DIS** | **DIS** | | **DIS** | | | **FDIS** | |  |  | |  | |  |  | |  | | |
| I | 7 | Immersive Video Metadata | | STD | 1 |  | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 7 | Immersive Audio Metadata | | STD | 1 |  | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 7 | Immersive Media Metadata | | STD | 1 | **WD** | | **WD** | | **WD** | **CD** | | **DIS** | | | **DIS** | | **FDIS** |  | |  | |  |  | |  | | |
| I | 8 | Network-Based Media Processing | | STD | 1 | **DIS** | | **FDIS** | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 9 | Geometry-based Point Cloud Compression | | STD | 1 | **CD** | | **DIS** | | **DIS** | **FDIS** | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 10 | Carriage of Point Cloud Data | | STD | 1 | **CD** | | **DIS** | | **DIS** | **FDIS** | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 11 | Implementation Guidelines for Network-based Media Processing | | TR | 1 | **WD** | | **PDTR** | | **TR** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 12 | Immersive Video | | STD | 1 | **WD** | | **CD** | | **DIS** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| I | 13 | Multi-Decoder Video Interface for Immersive Media | | STD | 1 |  | | **WD** | | **CD** | **DIS** | | **DIS** | | | **FDIS** | |  |  | |  | |  |  | |  | | |
| I | 14 | Extensions to Scene Descriptions for Real-time Media | | STD | 1 |  | | **WD** | | **CD** | **DIS** | | **DIS** | | | **FDIS** | |  |  | |  | |  |  | |  | | |
| CICP | 2 | Items for future corrections of spec | | EXP | 1 | **EXP** | | **EXP** | | **EXP** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| CICP | 4 | Usage of video signal type code points | | TR | 1 |  | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| CICP | 4 | Usage of video signal type code points second edition | | TR | 2 | **TR** | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| G | 1 | Corrigendum on Transport | | COR | 1 | **DCOR** | | **DCOR** | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| G | 2 | Corrigendum on Representation | | COR | 1 |  | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| G | 4 | Reference software and conformance | | STD | 1 | **DIS** | | **DIS** | | **FDIS** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| G | 5 | Conformance | | STD | 1 | **DIS** | | **DIS** | | **FDIS** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| G | 6 | Genomic Annotation Representation | | STD | 1 |  | | **WD** | | **CD** | **DIS** | | **FDIS** | | |  | |  |  | |  | |  |  | |  | | |
| IOMT | 1 | IoMT Architecture | | STD | 1 | **FDIS** | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| IOMT | 2 | IoMT Discovery and Communication API | | STD | 1 |  | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| IOMT | 3 | IoMT Media Data Formats and API | | STD | 1 |  | |  | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| IOMT | 4 | IoMT Reference Software and Conformance | | STD | 1 | **DIS** | | **DIS** | | **FDIS** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| Exp | 7 | Immersive video - 6DoF | | EXP | 2 | **EXP** | | **EXP** | | **EXP** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| Exp | 7 | Compression of dense representation of light fields | | EXP | 3 | **EXP** | | **EXP** | | **EXP** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| Exp | 28 | In-advance signalling of MPEG containers content | | EXP | 1 | **EXP** | | **EXP** | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| Exp | 32 | Data Compression | | EXP | 1 | **EXP** | | **EXP** | |  |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| Exp | 33 | MPEG-21 Based Smart Contracts | | STD | 1 | **EXP** | | **EXP** | | **EXP** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| Exp | 34 | Video Coding for Machines | | EXP | 1 | **EXP** | | **EXP** | | **EXP** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| Exp | 35 | 5G Opportunities | | EXP | 1 | **EXP** | | **EXP** | | **EXP** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| 5 | 1 | Essential Video Coding | | STD | 1 | **DIS** | | **DIS** | | **FDIS** |  | |  | | |  | |  |  | |  | |  |  | |  | | |
| 5 | 2 | Low Complexity Enhancement Video Coding | | STD | 1 | **CD** | | **DIS** | | **DIS** | **FDIS** | |  | | |  | |  |  | |  | |  |  | |  | | |