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**INTERNATIONAL ORGANIZATION FOR STANDARDIZATION**

**ORGANISATION INTERNATIONALE DE NORMALISATION**

**ISO/IEC JTC 1/SC 29/AG 3 MPEG LIAISON AND COMMUNICATION**

**ISO/IEC JTC 1/SC 29/AG 3 N199**

**Online. April 2025**

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| **Serial Number** | **25195** |

# Introduction

This document provides Communication Assets produced upto the 150th MPEG meetings.

# White Papers (86 papers)

* List of upcoming white papers
* WG3
  + 2nd edition of ISO/IEC 23090-14 Scene description
  + High Efficiency Image Format (HEIF; ISO/IEC 23008-12: Image file format)
  + 7th edition of ISO/IEC 14496-15  Final Draft Amendment
  + ISO/IEC 23001-11 Amendment 1 (energy-efficient media consumption (green metadata) for Essential Video Coding (EVC))
  + ISO/IEC 23090-18 Amendment 1 (support of temporal scalability) to Final Draft Amendment
* WG5: VSEI + VVC
* List of produced white papers

|  |  |  |  |
| --- | --- | --- | --- |
| No | Meetings | Output No (MDS) | Title |
| 86 | 19 (150) |  | White paper on Video-based Dynamic Mesh Coding |
| 85 | 19 (150) |  | White paper on MPEG Technologies for Metaverse |
| 84 | 18 (149) | 184 (24931) | White paper on MPEG-D Dynamic range control |
| 83 | 18 (149) | 185 (24932) | White paper on Green metadata 3rd edition |
| 82 | 18 (149) | 186 (24933) | Draft of White Paper on Video-based Dynamic Mesh Coding |
| 81 | 17 (148) | 174 (24642) | White paper on HEVC |
| 80 | 15 (146) | 150 (23975) | White Paper on MPEG-I Immersive Audio |
| 79 | 14 (145) | 139 (23564) | White paper on Neural Network Compression |
| 78 | 11 (142) | 113 (22806) | Draft White paper on REaP |
| 77 | 11 (142) | 112 (22805) | White paper on Coding of Genomic Annotations |
| 76 | 11 (142) | 111 (22804) | White paper on G-PCC |
| 75 | 10 (141) | 102 (22351) | Draft of White Paper on Coding of Genomic Annotations |
| 74 | 10 (141) | 101 (22350) | Draft of White Paper on REaP |
| 73 | 10 (141) | 100 (22349) | Draft White Paper on G-PCC |
| 72 | 9 (140) | 91 (22138) | White Paper on MPEG-I Scene Description |
| 71 | 9 (140) | 90 (22135) | White paper on MPEG-H 3D Audio |
| 70 | 8 (139) | 81 (21854) | Draft of White Paper on MPEG-I Scene Description |
| 69 | 8 (139) | 80 (21852) | White Paper on CMAF media profiles for VVC, EVC and MPEG-H audio |
| 68 | 7 (138) | 72 (21604) | Draft of White Paper on CMAF media profiles for VVC, EVC and MPEG-H audio |
| 67 | 7 (138) | 71 (21538) | White paper on MPEG Smart Contracts for Media |
| 66 | 6 (137) | 60 (21275) | Draft white paper on MPEG Smart Contracts for Media |
| 65 | 6 (137) | 59 (21274) | White paper on MPEG Immersive video |
| 64 | 6 (137) | 58 (21273) | White paper on Low Complexity Enhancement Video Coding (LCEVC) |
| 63 | 6 (137) | 57 (21272) | White Paper on Neural Network Coding |
| 62 | 5 (136) | 49 (21039) | Draft of White paper on Low Complexity Enhancement Video Coding (LCEVC) |
| 61 | 5 (136) | 48 (21038) | Draft of White paper on Multiview Immersive Video (MV) Coding |
| 60 | 5 (136) | 47 (21037) | Draft of White paper on Neural Network Coding (NNC) |
| 59 | 5 (136) | 46 (21036) | White paper on Essential Video Coding (EVC) |
| 58 | 4 (135) | 38 (20745) | Draft of white paper on Motivation and Requirements for Video Coding for Machine |
| 57 | 4 (135) | 36 (20737) | White paper on MPEG-G and its application of regulations and privacy |
| 56 | 4 (135) | 35 (20736) | White paper on Versatile Video Coding (VVC) |
| 55 | 4 (135) | 34 (20735) | White paper on Essential Video Coding (EVC) |
| 54 | 3 (134) | 24 (20390) | White paper on Video based Point Cloud Compression (V-PCC) |
| 53 | 2 (133) | 16 (20113) | Draft of White paper on Video based Point Cloud Compression (V-PCC) |
| 52 | 2 (133) | 15 (20112) | White paper on Network Based Media Processing (NBMP) |
| 51 | 1 (132) | 5 (19860) | White paper on Multi-Image Application Format |
| 50 | 128 | 18879 | White paper on IoMT |
| 49 | 127 | 18650 | White paper on Audio Family |
| 48 | 126 | 18500 | MPEG Intellectual Property Rights Ontologies |
| 47 | 18501 | Media Orchestration (MORE) |
| 46 | 125 | 18269 | White paper on CDVA |
| 45 | 18270 | Network Based Media Processing Vision Paper |
| 44 | 124 | 18093 | White paper on Overview of ISO Base Media File Format |
| 43 | 123 | 17837 | Media Linking Application Format |
| 42 | 122 | 17664 | White paper on HEVC support for consumer HDR and WCG video |
| 41 | 17666 | Investigation on Network Based Media Processing |
| 40 | 121 | 17468 | White paper on Genome Compression |
| 39 | 120 | 17280 | White paper Common Media Application Format (CMAF) |
| 38 | 17283 | Whitepaper on MPEG-DASH |
| 37 | 17284 | Whitepaper on Common encryption for ISO Base Media Files |
| 36 | 119 | 16962 | Whitepaper for Sample Variants in the ISO base media format |
| 35 | 117 | 16662 | White paper on Three-Dimensional Graphics Compression (3DGC) |
| 34 | 16708 | White paper on New features in DASH |
| 33 | 115 | 16351 | White Paper on Compact Descriptors for Visual Search |
| 32 | 114 | 15996 | White Paper on MPEG-21 Contract Expression Language (CEL) and MPEG-21 Media Contract Ontology (MCO) |
| 31 | 15997 | White Paper on the 2nd edition of ARAF |
| 30 | 15820 | White Paper on Spatial Audio Object Coding |
| 29 | 15819 | White paper on MPEG DASH part 1 Amd 2 ­ Spatial Relationship Descriptor |
| 28 | 15818 | White Paper on Green Metadata |
| 27 | 112 | 15556 | Text of White Paper on MPEG Multimedia Preservation Application Format (MP-AF) |
| 26 | 111 | 15070 | White Paper on AAC-ELD Family of Standards for High Quality Communication Services |
| 25 | 15071 | White Paper on MPEG-D Dynamic Range Control |
| 24 | 15069 | White Paper on MPEG Media Transport (MMT) |
| 23 | 15074 | White paper on RVC-CAL and RMC |
| 22 | 15075 | White paper on HEVC |
| 21 | 15072 | Technical Note: AAC Implementation Guidelines for DASH |
| 20 | 15073 | Technical Note: AAC-ELD v2 Implementation Guide |
| 19 | 14938 | White Paper on Common Encryption |
| 18 | 15047 | White Paper on Genome Compression and Storage |
| 17 | 14991 | White paper on RVC-CAL and RMC |
| 16 | 109 | 14728 | White Paper on Carriage of Timed Text and Other Visual Overlays |
| 15 | 14751 | White paper on AAC Transport Formats |
| 14 | 107 | 14187 | White paper on MPEG-V |
| 13 | 14188 | Guideline for uploading technical articles in MPEG Home page |
| 12 | 14306 | White paper on File Format |
| 11 | 106 | 13995 | Text of white paper on Open Font Format |
| 10 | 105 | 13868 | Text of white paper on MPEG Query Format |
| 9 | 13869 | Text of white paper on MPEG-7 AudioVisual Description Profile (AVDP) |
| 8 | 104 | 13535 | Text of White Paper on MPEG-U |
| 7 | 13591 | Text of White Paper on CDVS |
| 6 | 13592 | White Paper on MPEG-M |
| 5 | 103 | 13364 | White Paper on State of the Art in compression and transmission of 3D Video |
| 4 | 102 | 13095 | White Paper on State of the Art in compression and transmission of 3D Video (Draft) |
| 3 | 13170 | White Paper on Compact Descriptors for Visual Search |
| 2 | 101 | 12942 | White Paper on State of the Art in 3D Video |
| 1 | 100 | 12751 | White Paper on State of the Art in 3D Video |

# Video Clips (12 Clips)

* MPEG Green Metadata
* Multimedia Preservation Application Format
* MPEG-H 3D Audio
* Composition Information
* MPEG Media Transport (MMT)
* Timed Text
* Unified Speech and Audio Coding
* Advance Audio Coding
* Dynamic Adaptive Streaming over HTTP (DASH)
* DASH Implementation
* High Efficiency Video Coding
* Augemented Reality Application Format

# Articles (9 Articels)

* [Reconfigurable Media: Decoding-Modules Assignable To A Dataflow Network](https://mpeg.chiariglione.org/news/reconfigurable-media-decoding-modules-assignable-a-dataflow-network)
* [Common Media Application Format Brings The Bitstreams Together](https://mpeg.chiariglione.org/news/common-media-application-format-brings-bitstreams-together)
* [OMAF Packages Immersive Media Assets For Omnidirectional Experiences](https://mpeg.chiariglione.org/news/omaf-packages-immersive-media-assets-omnidirectional-experiences)
* [Supporting Deeper And Richer Visual Displays With HEVC (HDR)](https://mpeg.chiariglione.org/news/supporting-deeper-and-richer-visual-displays-hevc)
* [Multimedia Preservation Application Format Supports Digital Archives](https://mpeg.chiariglione.org/news/multimedia-preservation-application-format-supports-digital-archives)
* [Green MPEG Uses Metadata To Right-Size Power Use For Video](https://mpeg.chiariglione.org/news/green-mpeg-uses-metadata-right-size-power-use-video)
* The Metadata-First Approach Of Compact Descriptors For Visual Analysis
* [Introducing Media Things To The Internet Of Things](https://mpeg.chiariglione.org/news/introducing-media-things-internet-things)
* [Global Video As Ground Plan For Genomics Data Transmission](https://mpeg.chiariglione.org/news/global-video-ground-plan-genomics-data-transmission)

# Technical notes

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| --- | --- | --- |
| [Standard](https://mpeg.chiariglione.org/white-papers?order=title_1&sort=asc) | [Part name](https://mpeg.chiariglione.org/white-papers?order=title&sort=desc) | Technical notes |
| [MPEG-DASH](https://mpeg.chiariglione.org/standards/mpeg-dash) | [Implementation guidelines](https://mpeg.chiariglione.org/standards/mpeg-dash/implementation-guidelines) | Technical Note AAC DASH Implementation Guidelines,  Technical Note: AAC-ELD v2 IMPLEMENTATION GUIDE |
| [MPEG-4](https://mpeg.chiariglione.org/standards/mpeg-4) | [Audio](https://mpeg.chiariglione.org/standards/mpeg-4/audio) | [Technical Note on AAC-ELD Implementation Guide.docx](https://mpeg.chiariglione.org/sites/default/files/files/standards/docs/w15073.zip) |
| [MPEG-DASH](https://mpeg.chiariglione.org/standards/mpeg-dash) | [Implementation guidelines](https://mpeg.chiariglione.org/standards/mpeg-dash/implementation-guidelines) | Technical Note AAC DASH Implementation Guidelines,  Technical Note: AAC-ELD v2 IMPLEMENTATION GUIDE |

# Investigations

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| --- | --- | --- |
| [Standard](https://mpeg.chiariglione.org/white-papers?order=title_1&sort=asc) | [Part name](https://mpeg.chiariglione.org/white-papers?order=title&sort=desc) | Investigations |
| [MPEG-I](https://mpeg.chiariglione.org/standards/mpeg-i) | [Network Based Media Processing](https://mpeg.chiariglione.org/standards/mpeg-i/network-based-media-processing) | Investigation on NBMP,  NBMP vision paper |
| [MPEG-I](https://mpeg.chiariglione.org/standards/mpeg-i) | [Network Based Media Processing](https://mpeg.chiariglione.org/standards/mpeg-i/network-based-media-processing) | Investigation on NBMP,  NBMP vision paper |
| [MPEG-IoMT](https://mpeg.chiariglione.org/standards/mpeg-iomt) | [IoMT Architecture](https://mpeg.chiariglione.org/standards/mpeg-iomt/iomt-architecture) | [Investigation on Media-centric Internet of Things (draft)](https://mpeg.chiariglione.org/sites/default/files/files/standards/docs/w15085-v2-w15085.zip) |
| [MPEG-G](https://mpeg.chiariglione.org/standards/mpeg-g) | [Transport and Storage of Genomic Information](https://mpeg.chiariglione.org/standards/mpeg-g/transport-and-storage-genomic-information) | [Investigation on genomic information compression](https://mpeg.chiariglione.org/sites/default/files/files/standards/docs/w15094.zip) |
| [MPEG-IoMT](https://mpeg.chiariglione.org/standards/mpeg-iomt) | [IoMT Architecture](https://mpeg.chiariglione.org/standards/mpeg-iomt/iomt-architecture-0) | [Investigation on Wearable MPEG](https://mpeg.chiariglione.org/sites/default/files/files/standards/docs/w15200.docx.zip) |
| [Exploration](https://mpeg.chiariglione.org/standards/exploration) | [3D Printing](https://mpeg.chiariglione.org/standards/exploration/3d-printing) | [Investigation on 3D printing](https://mpeg.chiariglione.org/sites/default/files/files/standards/docs/w15303.zip) |

# MPEG events

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| --- | --- | --- |
| [sort ascending](https://mpeg.chiariglione.org/events?page=2&order=field_event_date&sort=asc)Title | [Date](https://mpeg.chiariglione.org/events?page=2&order=field_event_date&sort=asc) | [Venue](https://mpeg.chiariglione.org/events?page=2&order=field_venue&sort=asc) |
| [MPEG-H 3D Audio workshop](https://mpeg.chiariglione.org/events/mpeg-h-3d-audio-workshop) | Wednesday, 18 July 2012 - 5:00am | Stockholm, SE |
| [MPEG-H 3D Audio Workshop](https://mpeg.chiariglione.org/events/mpeg-h-3d-audio-workshop-0) | Wednesday, 8 February 2012 - 5:00am | San José, US |
| [sort ascending](https://mpeg.chiariglione.org/events?page=1&order=field_event_date&sort=asc)  The MPEG 100 Event | Monday, 2 May 2011 - 9:00am | Genève, CH |
| [The MP20 Workshop on MPEG Roadmap](https://mpeg.chiariglione.org/about/events/mp20-workshop-mpeg-roadmap) | Wednesday, 19 October 2016 - 6:00am | Chengdu, CN |
| [Workshop on 5G / Beyond UHD Media](https://mpeg.chiariglione.org/about/events/workshop-5g-beyond-uhd-media) | Wednesday, 24 February 2016 - 5:00am | La Jolla, US |
| [Seminar on Genome Compression Standardization](https://mpeg.chiariglione.org/about/events/seminar-genome-compression-standardization) | Tuesday, 23 February 2016 - 5:00am | La Jolla, US |
| [Seminar on Media Synchronization for Hybrid Delivery](https://mpeg.chiariglione.org/about/events/seminar-media-synchronization-hybrid-delivery) | Wednesday, 22 October 2014 - 5:00am | Strasbourg, FR |
| [The 2nd MMT Developer’s Day](https://mpeg.chiariglione.org/about/events/2nd-mmt-developer%E2%80%99s-day) | Wednesday, 22 October 2014 - 5:00am | Strasbourg, FR |
| [Brainstorming panel discussion session on future video coding](https://mpeg.chiariglione.org/about/events/brainstorming-panel-discussion-session-future-video-coding) | Tuesday, 21 October 2014 - 5:00am | Strasbourg, FR |
| [FTV Seminar](https://mpeg.chiariglione.org/about/events/ftv-seminar) | Wednesday, 9 July 2014 - 5:00am | Sapporo, JP |
| [MMT Developers’ Day](https://mpeg.chiariglione.org/about/events/mmt-developers%E2%80%99-day) | Saturday, 5 July 2014 - 1:00am | Sapporo, JP |
| [Workshop on session management and control for MPEG DASH](https://mpeg.chiariglione.org/about/events/workshop-session-management-and-control-mpeg-dash) | Sunday, 28 July 2013 - 12:00am | Vösendorf, AT |
| [sort ascending](https://mpeg.chiariglione.org/events?order=field_event_date&sort=asc)  MPEG Multimedia Ecosystem 2013 | Wednesday, 24 April 2013 - 12:00am | Incheon, KR |
| [Workshop on standard coding technologies for immersive audio and visual experiences](https://mpeg.chiariglione.org/about/events/workshop-standard-coding-technologies-immersive-audio-and-visual-experiences) | Wednesday, 10 July 2019 - 6:00am | Gothenburg, SE |
| [Workshop on coding technologies for immersive audio/visual experiences](https://mpeg.chiariglione.org/about/events/workshop-coding-technologies-immersive-audiovisual-experiences) | Wednesday, 10 July 2019 - 6:00am | Gothenburg, SE |
| [Workshop on coding technologies for immersive audio/visual experiences](https://mpeg.chiariglione.org/about/events/workshop-coding-technologies-immersive-audiovisual-experiences-0) | Wednesday, 10 July 2019 - 6:00am | Gothenburg, SE |
| [Workshop on MPEG-G - Shenzhen (CN)](https://mpeg.chiariglione.org/about/events/workshop-mpeg-g-shenzhen-cn) | Saturday, 13 October 2018 - 6:00am | Shenzhen, CN |
| [Workshop on Genomic Information Representation (MPEG-G)](https://mpeg.chiariglione.org/about/events/workshop-genomic-information-representation-mpeg-g) | Wednesday, 18 April 2018 - 6:00am | San Diego, US |
| [MPEG Workshop on Immersive Services Roadmap](https://mpeg.chiariglione.org/about/events/mpeg-workshop-immersive-services-roadmap) | Wednesday, 24 January 2018 - 6:00am | Gwangju, KR |
| [OMAF Developers' Day](https://mpeg.chiariglione.org/about/events/omaf-developers-day) | Wednesday, 24 January 2018 - 2:00am | Gwangju, KR |
| [MP20 workshop on standards, plans and explorations of immersive media](https://mpeg.chiariglione.org/about/events/mp20-workshop-standards-plans-and-explorations-immersive-media) | Saturday, 28 October 2017 - 6:00am | , HK |
| [Workshop on Processing of Genomic Information: From Standards to Deployment](https://mpeg.chiariglione.org/about/events/workshop-processing-genomic-information-standards-deployment) | Wednesday, 19 July 2017 - 7:00am | Torino, IT |
| [MPEG Workshop “Global Media Technology Standards for an Immersive Age”](https://mpeg.chiariglione.org/about/events/mpeg-workshop-%E2%80%9Cglobal-media-technology-standards-immersive-age%E2%80%9D) | Wednesday, 18 January 2017 - 8:00am | Genève, CH |