**INTERNATIONAL ORGANISATION FOR STANDARDISATION**

**ORGANISATION INTERNATIONALE DE NORMALISATION**

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

**CODING OF MOVING PICTURES AND AUDIO**

**ISO/IEC JTC 1/SC 29/WG 11 N18112**

**Marrakesh – January 2019**

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| --- | --- |
| **Source:** | **Leonardo Chiariglione**  |
| **Title:** | **Ad hoc groups established at MPEG 125** |

**Ad hoc groups established at MPEG 125**

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| **Name** | **AHG on Genomic Information Representation** |
| **Mandates** | 1. To disseminate the information and coordinate the activities jointly carried out by ISO/IEC JTC 1/SC 29/WG 11 and ISO TC 276/WG 5 to other ISO TCs, GA4GH and other organizations.
2. To discuss and coordinate a collaboration with GATK development team to support MPEG-G as native format.
3. To discuss and coordinate MPEG contributions to relevant bioinformatics conferences and events.
4. To contribute to the editing and to the revision of the FDIS text of Part-1, Part-2, and DIS of Part-3 and for the CDs of Part-4 and Part-5.
5. To finalize the collection and definition of test item descriptions and binary streams for Conformance testing.
6. To identify work items, use cases and requirements for MPEG-G Version 2.
7. To collect test data for future standardization activities.
8. To investigate anonymization methods for genomic data and understand how MPEG-G can support their implementation.
 |
| **Chairmen** | M. Golebiewsky (HITS), J. Delgado (UPC), M. Mattavelli (EPFL) |
| **Duration** | 126th MPEG meeting |
| **Reflector(s)** | genome\_compression@listes.epfl.ch |
| **Subscribe** | To subscribe, send email to genome\_compression-subscribe@listes.epfl.ch |
|  |  |  |  |
| **Meeting** | Yes | Room Size | 30 |
| Saturday and Sunday before the 126 MPEG |  |

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| **Name** | **AHG on Low Complexity Video Coding Enhancements** |
| **Mandates** | 1. Collect responses to the Call for Proposals for Low Complexity Video Coding Enhancements
2. Conduct a subjective evaluation using the responses
3. Analyze submissions from proponents
4. Produce a report and recommendation
 |
| **Chairmen** | Simone Ferrara, Walt Husak, Vittorio Baroncini |
| **Duration** | 126th MPEG meeting |
| **Reflector(s)** | vcexp@lists.aau.at |
| **Subscribe** | To subscribe, send e-mail to https://lists.aau.at/mailman/listinfo/vcexp |
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| **Meeting** | Yes | Room Size | 30 |
| Saturday and Sunday before meeting |  |

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| **Name** | **AHG on common MPEG and GA4GH standardization activities** |
| **Mandates** | 1. To investigate common objectives and common coordinated standardization activities
2. To explore a common process on type-1 standardization activities and areas for type-1 standardization
3. To extend the genomic information database with the collection of new content in line with current and new use cases and emerging sequencing technologies.
 |
| **Chairmen** | Rishi Nag (EMBL-EBI), Joern Ostermann (Leibniz University Hannover) |
| **Duration** | Until next 126th MPEG meeting |
| **Reflector(s)** | MPEG-GA4GH-tnt@listserv.uni-hannover.de |
| **Subscribe** | To subscribe or unsubscribe, send email to listserv@listserv.uni-hannover.de with message subscribe MPEG-GA4GH-tnt |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on Compact Descriptors for Video Analysis (CDVA)** |
| **Mandates** | 1. To maintain the data set, the test model CXM 6.1 and the evaluation software.
2. To improve conformance and reference software and prepare the DIS.
3. To promote CDVA to the industry.
 |
| **Chairmen** | Werner Bailer, Lingyu Duan |
| **Duration** | until 126th meeting |
| **Reflector(s)** | cdvs-tnt@listserv.uni-hannover.de |
| **Subscribe** | To subscribe or unsubscribe, send email to listserv@listserv.uni-hannover.de with message subscribe cdvs-t |
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| **Meeting** | no meeting planned | Room Size |  |
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| **Name** | **AHG on Compressed Representation of Neural Networks** |
| **Mandates** | 1. Refine use cases and requirements and improve test data for further use cases
2. Prepare the evaluation of submissions
3. Continue analyzing the state of the art in NN compression and exchange formats
4. Continue interaction with SC42, FG ML5G, NNEF, ONNX and the AI/ML community
 |
| **Chairmen** | Werner Bailer (werner.bailer@joanneum.at)Sungmoon Chun (smchun@insignal.co.kr) |
| **Duration** | until 126th meeting |
| **Reflector(s)** | mpeg-nnr@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-nnr |
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| **Meeting** | Saturday (14:00-18.00) and Sunday (9.00-18.00) prior to 126th meeting | Room Size | 50 |
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| **Name** | **AHG on MPEG-5 Essential Video Coding** |
| **Mandates** | 1. Produce and finalize the MPEG-5 Essential Video Coding Working Draft 1 by Feb 4th
2. Coordinate development of the MPEG-5 Essential Video Coding Test Model 1 software and its distribution by Feb 4th
3. Encourage further study of the WD and software, including comments on the current design
4. Detect and discuss issues relating to mismatches between software and text and make the required changes
5. Study the draft Baseline profile with regard to the goal of being in line with the Requirements
6. Encourage input documents for MPEG 126 that suggest significant improvements, in line with the Requirements
7. Evaluate any suggested improvements
 |
| **Chairmen** | Ken McCann |
| **Duration** | 126th MPEG meeting |
| **Reflector(s)** | mpeg-5@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-5 |
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| **Meeting** | 09:00-18:00 Sunday before MPEG | Room Size | 50 |
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| **Name** | **AHG on Data Compression** |
| **Mandates** | 1. Complete the missing chapters and sections in N18200
2. Specifically investigate the fields of Industry automation
3. Initiate in-depth study of use of MPEG-21 in blockchains and its operation
4. Work with SC 42 members to make explicit the use of compression in the Big Data model
 |
| **Chairmen** | Leonardo Chairiglione (leonardo@chiariglione.org) |
| **Duration** | until 126th MPEG Meeting |
| **Reflector(s)** | mpeg-workplan@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-workplan |
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| **Meeting** | Sunday prior to 126th meeting (16:00-18:00) | Room Size | 30 |
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| **Name** | **AHG on MPEG-I Visual** |
| **Mandates** | 1. Prepare for experts viewing for responses to CfP on 3DoF+ Visual
2. Review responses of CfP on 3DoF+ visual
3. Call for test materials for MPEG-I Visual
4. Define common test conditions and carry out exploration experiments on 6DoF
5. Define common test conditions and carry out exploration experiments on dense light fields video
 |
| **Chairmen** | Lu Yu (chair), Gauthier Lafruit, Joel Jung, Bart Kroon, Jill Boyce (co-chairs) |
| **Duration** | 126th MPEG meeting |
| **Reflector(s)** | mpeg-i-visual@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-i-visual |
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| **Meeting** | Conference call on Feb. 26 4pm CET;Physical meeting: Saturday and Sunday before MPEG meeting | Room Size | 40 |
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| **Name** | **AHG on System technologies for Point Cloud Coding** |
| **Mandates** | 1. Study Working Draft and TuC, and bring contributions to improve it.
2. Study single track encapsulation in ISOBMFF for PCC
3. Contribute to PCC CE on tiles and slices, and CE on high level syntax.
4. Study signaling of profiles and conformance for compressed point clouds
5. Contribute to the development of requirements for video decoding interface
 |
| **Chairmen** | Youngkwon Lim, Sebastian Schwarz |
| **Duration** | Until the 126th MPEG meeting |
| **Reflector(s)** | mpeg-3dgc@gti.ssr.upm.es and mp4-sys@lists.aau.at (messages should be sent to both reflectors) |
| **Subscribe** |  |
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| **Meeting** | none. | Room Size |  |
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| **Name** | **AHG on Systems technologies for VVC** |
| **Mandates** | 1. To facilitate participation of relevant meetings and discussions which happens before the start of MPEG meeting
2. Contribute to development of VVC regarding following topics.
	1. Metadata equivalent to the scope of SEI messages from AVC and HEVC
	2. Metadata equivalent to the scope of VUI messages from AVC and HEVC
	3. High-level syntax required signalling for post decoder processing
	4. Sub-Bitstream extraction and merging (e.g. “high-level syntax related to tile based bitstream extraction and merging”)
	5. Byte stream format
3. 3. To contribute to the development of MPEG-I architecture and video decoding interface.
 |
| **Chairmen** | Youngkwon Lim, Emmanuel Thomas |
| **Duration** | Until the 126th MPEG meeting |
| **Reflector(s)** | gen-sys@lists.aau.at |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/gen-sys |
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| **Meeting** | Saturday before the next MPEG meeting | Room Size | - |
| conference calls (detailed schedule will be announced through the reflector) |  |

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| **Name** | **AHG on MMT** |
| **Mandates** | 1. Execute work plan on the conformance
2. Study working drafts and the documents related to MMT under ballot
3. Work on Core Experiment on New Protocols and Payload Formats
4. Keep relevant SDOs informed about MMT (ITU-T SG 16, ARIB, 3GPP, ATSC, etc.)
 |
| **Chairmen** | Imed Bouazizi |
| **Duration** | Until next MPEG Meeting |
| **Reflector(s)** | MMT-TNT@listserv.uni-hannover.de |
| **Subscribe** | MMT-TNT-request@listserv.uni-hannover.de |
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| **Meeting** | Saturday 09:00-13:00 | Room Size | ~10 |
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| **Name** | **AHG on Scene Description for MPEG-I** |
| **Mandates** | 1. Select and document set of existing external scene description formats to be used as reference for MPEG-I system design
2. Refine the requirements in N17747 based on the findings in mandate 1
3. Identify relevant MPEG standardization aspects based on the above two findings
4. Integrate Audio requirements on Scene Graph
 |
| **Chairmen** | Imed Bouazizi, Frank Wefers |
| **Duration** | Until next MPEG meeting |
| **Reflector(s)** | mpeg-i@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-i |
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| **Meeting** | Sunday 14:00-18:00 | Room Size | ~30 |
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| **Name** | **AHG on Application Formats** |
| **Mandates** | Multi-Image Application Format1. Study conformance and reference software for MIAF
2. Continue supporting WG1 on storage in HEIF

Visual Identity Management Application Format1. To develop reference software and conformance
 |
| **Chairmen** | Krasimir Kolarov, Youngkwon Lim |
| **Duration** | until 126th meeting |
| **Reflector(s)** | mpeg-maf-dev@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-maf-dev |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on MPEG File Formats** |
| **Mandates** | 1. Support the groups using the file formats (including audio, DASH, CMAF, OMAF, MORE, MIAF, PCC, NBMP et al.)
2. Study the Technologies under Consideration and Working Draft documents and propose improvements. Study the defect reports and propose corrigendum text.
3. Maintain and update the conformance streams, reference software, white papers and one-pagers, and registration authority, as needed.
4. Study the space efficiency of movie fragments and propose compactness improvements, including building a collection of files using sample groups, dependency flags etc.. Study the compactness of common encryption. Study the compact track runs and propose a decision.
5. Check the specifications for unregistered MIME types and parameters and start registering them. Check the specifications and cross-reference to the Registration Authority and update registrations as needed.
6. Study track-run re-ordering to optimize handling of cancelled transfers and FEC (see m44768).
7. Study derived visual tracks and propose a decision for the base architecture.
 |
| **Chairmen** | David Singer (Apple) and Per Fröjdh (Ericsson) |
| **Duration** | Until next meeting |
| **Reflector(s)** | mp4-sys@lists.aau.at |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/mp4-sys |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on Common Media Application Format (CMAF)** |
| **Mandates** | 1. Study the text of Amd 3 and solicit feedback
2. Study the TuC and solicit further input and feedback
3. Study the Exploration document and provide feedback
4. Solicit further contributions on CMAF conformance and test vectors
5. Solicit feedback on the draft of 2nd edition
 |
| **Chairmen** | Krasimir Kolarov; John Simmons; Cyril Concolato |
| **Duration** | until 126th meeting |
| **Reflector(s)** | mpeg-cmaf@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-cmaf |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on MPEG-I Architecture and Requirements** |
| **Mandates** | 1. To refine and verify the architecture(s) for Immersive Services (N17888)
2. To study split-rendering architectures with focus on requirements on MPEG codecs to be used in such architectures, accounting for the NBMP work, and to include these in the Architecture Document, and to derive requirements for them
3. To study N18071 (Requirements for Immersive Media Access and Delivery); to finalize the Decoding Interface and Media Declaration requirements and further develop other requirements
4. To cluster the requirements for the decoding interface in a) work relevant to MPEG groups (systems, video, etc.), b) implementation aspects, as well as c) potential requirements to be addressed by other SDOs (e.g. Khronos).
5. To study the existing file format concepts (tracks, groups, etc.) in the context of immersive media storage and identify any missing logical structures for immersive media storage
6. To further develop the requirements MPEG-I phase 2
7. To update the “Overview of Immersive Media Standards” (N17930)
 |
| **Chairmen** | Thomas Stockhammer (tsto@qti.qualcomm.com)Rob Koenen (rob@tiledmedia.com)Mary-Luc Champel (champelmaryluc@xiaomi.com)Jaeyeon Song (jy\_song@samsung.com)Schuyler Quackenbush (srq@audioresearchlabs.com) |
| **Duration** | UNtil MPEG126 |
| **Reflector(s)** | mpeg-i@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-i |
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| **Meeting** | Sunday prior to MPEG 126, starting at 09:00 and end time to be coordinated with Scene Description AHG | Room Size | 80 |
| 2 calls to be set up at 15:00 CET; date to be decided |  |

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| **Name** | **AhG on MPEG DASH** |
| **Mandates** | 1. Solicit input on ISO/IEC 23009-1:2014 Study DAM5 (N18245), and open issues described (N18306).
2. Study technologies under consideration (TuC; N18218) and defects under investigation (DuI; N18234).
3. Study event messages (emsg) equivalency scope, i.e. within scheme/value or cross different scheme/values.
4. Continue to work on conformance and reference software.
 |
| **Chairmen** | Iraj Sodagar, Christian Timmerer, Ali C. Begen |
| **Duration** | Until MPEG 126 |
| **Reflector(s)** | dash@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/dash |
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| **Meeting** | Sunday prior to MPEG 126th, 4:00PM-8:00PM | Room Size | 50 |
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| **Name** | **AHG on MPEG Roadmap** |
| **Mandates** | 1. To review and improve the MPEG Standardisation Roadmap (presentation and document)
2. To discuss and prepare promotional activities
 |
| **Chairmen** | Rob Koenen, rob@tiledmedia.comWalt Husak, WJH@dolby.comEuee Jang, esjang@hanyang.ac.kr |
| **Duration** | Until MPEG126 |
| **Reflector(s)** | mpegvision@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpegvision |
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| **Meeting** | None | Room Size |  |
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| **Name** | **AHG on Omnidirectional MediA Format (OMAF)** |
| **Mandates** | 1. Study the output documents of OMAF 2nd edition, and MPEG-I Parts 6 and 7 and solicit technical contributions for improvements per MPEG-I phase 1b requirements
2. Study the profiles under consideration and solicit contributions
3. Study the technologies under consideration and solicit contributions
4. Develop plans on OMAFv1 reference software and conformance and solicit contributions
5. Study the test framework for OMAF and solicit contributions
6. Communicate with relevant SDOs, e.g. VRIF, 3GPP SA4
 |
| **Chairmen** | Ye-Kui Wang (Huawei), Sachin Deshpande (Sharp), Rob Koenen (Tiledmedia), Youngkwon Lim (Samsung) |
| **Duration** | Until the 126th MPEG meeting |
| **Reflector(s)** | mpeg-maf-dev-bounces@lists.aau.at |
| **Subscribe** | To subscribe, go to https://lists.aau.at/mailman/listinfo/mpeg-maf-dev |
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| **Meeting** | None | Room Size |  |
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| **Name** | **AHG on Network Based Media Processing (NBMP)** |
| **Mandates** | 1. Study the CD of NBMP and solicit technical contributions to improve it.
2. Conduct CEs and propose improvement of CD based on outcome of CEs.
3. Study the workplan to develop the reference S/W.
4. Study the relationship with existing MPEG standard (e.g., 3DG).
5. Study network based support of MPEG-I use cases.
6. Develop the plan for collaboration with other relevant SDOs, e.g., 3GPP SA4.
 |
| **Chairmen** | Kyungmo Park (SK Telecom) and Imed Bouazizi (Samsung) |
| **Duration** | Until MPEG 126 |
| **Reflector(s)** | mpeg-nbmp@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-nbmp |
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| **Meeting** | Saturday before MPEG 126, 1400 to 1800 | Room Size | 30 |
| Sunday before MPEG 126, 0900 to 1300 |  |

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| **Name** | **AHG on MPEG-I Audio and Audio Maintenance** |
| **Mandates** | 1. Execute Workplan on MPEG-I Audio
2. Study MPEG-I Audio Encoder Input Format
3. Study Thoughts on Evaluation Procedures
4. Collect test material that conforms to MPEG-I Audio Encoder Input Format
5. Maintain Audio-related conformance data and reference software
 |
| **Chairmen** | Schuyler Quackenbush (ARL) srq at audioresearchlabs . com |
| **Duration** | Until 126th MPEG Meeting |
| **Reflector(s)** | mpeg-audio-call@audioresearchlabs.com |
| **Subscribe** | * To subscribe or unsubscribe to the list, send email to the AhG Chair
* To post on the mailing list, send email to mpeg-audio-call@ audioresearchlabs.com

Note that posting is blocked for non-members |
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| **Meeting** | Yes | Room Size | 40 |
| GoToMeeting Web AhG meeting Wed Feb 13 1000-1200 Eastern | F2F meeting 0900-1800 on Sunday prior to 126th MPEG meeting at MPEG meeting venue on topic MPEG-I Audio issues |

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| **Name** | **AHG on MPEG MORE** |
| **Mandates** | 1. To continue the development of reference SW and test bitstreams for MORE
2. To communicate with ITU SG16 on application of MPEG MORE to ILE systems
 |
| **Chairmen** | - Emmanuel Thomas, emmanuel.thomas@tno.nl- Oskar van Deventer, oskar.vandeventer@tno.nl- Krishna Chandramouli, krishna.chandramouli@qmul.ac.uk |
| **Duration** | until MPEG 126 |
| **Reflector(s)** | mpeg-more@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-more |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AhG on Point Cloud Coding** |
| **Mandates** | 1. Finalize editing of V-PCC Study of CD
2. Produce fifth version of the Working Draft for G-PCC
3. Update the TMs (SW and documentation) during the editing period
4. Coordinate activities on the V-PCC Reference SW
5. Update the CTC and provide updated anchor points
6. Conduct the PCC Core Experiments and Exploration Experiments
7. Solicit contributions on profiles and conformance for V-PCC
8. Solicit contributions on additional PCC use cases
9. Coordinate scientific and technical dissemination of PCC
10. Coordinate communications of PCC to fairs, exhibitions, workshops and prepare a public web-site with relevant information about PCC
11. Solicit additional data sets for all categories
 |
| **Chairmen** | Ralf Schaefer (Chair), Khaled Mammou, Madhukar Budagavi |
| **Duration** | Until 126th MPEG Meeting |
| **Reflector(s)** | mpeg-3dgc AT gti. ssr. upm. es |
| **Subscribe** | To subscribe, send email to https://mx.gti.ssr.upm.es/mailman/listinfo/mpeg-3dgc |
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| **Meeting** | Saturday before the MPEG meeting | Room Size | 70 |
| Sunday before the MPEG meeting | 09h00 to 18h00 |

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| **Name** | **AhG on IoMT** |
| **Mandates** | 1. Analyze the DISs and recommend further improvements
2. Solicit contributions related to IoMT White paper
3. Coordinate the activities related to IoMT Reference Software
 |
| **Chairmen** | Mihai Mitrea, Sang-Kyun Kim, Sungmoon Chun |
| **Duration** | Until 125th MPEG Meeting |
| **Reflector(s)** | MIoTW@lists.aau.at |
| **Subscribe** | http://lists.uni-klu.ac.at/mailman/options/MIoTW |
|  |  |  |  |
| **Meeting** | Sunday before the MPEG meeting | Room Size | 20 |
| 14h00 to 18h00 |  |