

**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 N18543**

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**Email of convenor: leonardo@chiariglione.org**

**Committee URL: mpeg.chiariglione.org**

**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 N18543**

**July 2019, Gothenburg, SE**

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| --- | --- |
| **Source:** | **Convenor** |
| **Title:** | **AHGs Established at 127th Meeting** |

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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. Audit files as needed for the MP4RA.
6. Study derived visual tracks and propose derivations based on the provisional architecture.
7. Study in-band events and round-trip conversions, and the processing model, with DASH event messages, including fragmentation/de-fragmentation of files with event messages, and multiplexing.
 |
| **Chairmen** | David Singer (Apple) and Per Fröjdh (Ericsson) |
| **Duration** | Until next meeting |
| **Reflector(s)** | mp4-sys@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/options/mp4-sys |
|  |  |  |  |
| **Meeting** |  | Room Size | 0 |
|  |  |
| **Name** | **AHG on Genomic Information Representation** |
| **Mandates** | 1. To finalize the implementation of missing modules of the reference SW and produce the related conformance bitstreams
2. 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.
3. To discuss and coordinate WG 11 contributions to relevant bioinformatics conferences and events.
4. To collect contributions to the MPEG-G best practice document
5. To collect additional test data useful to be used for Part 6 evaluation of the performance of proposed technologies.
6. To investigate privacy protection methods for genomic data and understand how MPEG-G can support their implementation.
7. To compile common test conditions for the evaluation of MPEG-G performance.
 |
| **Chairmen** | M. Golebiewsiy (HITS), J. Delgado (UPC), M. Mattavelli (EPFL) |
| **Duration** | Until MPEG 128 |
| **Reflector(s)** | genome\_compression@listes.epfl.ch |
| **Subscribe** | To subscribe, send email to genome\_compression-subscribe@listes.epfl.ch |
|  |  |  |  |
| **Meeting** | Yes | Room Size | 30 |
| Sunday before the 128th MPEG meeting from 15h to 19h |  |
| **Name** | **AHG on Systems technologies for PCC** |
| **Mandates** | 1. 1.Study CD (ISO/IEC 23090-10) and TuC, and bring contributions to improve it.
2. Study questions listed in N18608 and solicit contributions to answer them.
3. Conduct core experiment on partial access of PC data
4. Study carriage of G-PCC (ISO/IEC 23090-9) and solicit contributions on it.
5. Study signaling of profiles and conformance for compressed point clouds
6. Contribute to the development of requirements for video decoding interface
 |
| **Chairmen** | Youngkwon Lim, Sebastian Schwarz |
| **Duration** | Until the 128th MPEG meeting |
| **Reflector(s)** | mpeg-3dgc@gti.ssr.upm.es and mp4-sys@lists.aau.at (messages should be sent to both reflectors) |
| **Subscribe** |  |
|  |  |  |
| **Meeting** |  |  |
| - Conference call regarding mandate 3.- Date : TBA |  |
| **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. Study CD of VVC (ISO/IEC 23090-3) and contribute to development of VVC regarding following topics.
	1. Metadata equivalent to the scope of SEI messages from AVC (ISO/IEC 14496-10) and HEVC (ISO/IEC 23008-2)
	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. Solicit contributions on bitstream extraction and merging for VVC
 |
| **Chairmen** | Youngkwon Lim, Emmanuel Thomas |
| **Duration** | Until the 128th MPEG meeting |
| **Reflector(s)** | gen-sys@lists.aau.at |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/gen-sys |
|  |  |  |  |
| **Meeting** | Saturday before the next MPEG meeting | Room Size |  |
| - Conference calls on mandate 3.- Date : TBA |  |
| **Name** | **AHG on MPEG-I Visual** |
| **Mandates** | 1. Improve working draft for immersive video including a profile
2. Update test model and reference software for immersive video
3. Define CTC for immersive video
4. Carry on core experiments of immersive video
5. Call for test materials for MPEG-I Visual
6. Carry out exploration experiments on 6DoF
7. Define common test conditions and carry out exploration experiments on dense light fields video
8. Work on the dissemination of the activity
 |
| **Chairmen** | Lu Yu (chair), Joel Jung, Bart Kroon, Jill Boyce, Mehrdad Teratani (co-chairs) |
| **Duration** | Until next 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** | Call on Aug. 7 and Sep. 4 | Room Size | 50 |
| Saturday (9:00-18:00) and Sunday (9:00-18:00) before next MPEG meeting |  |
| **Name** | **AHG on MPEG-5 Essential Video Coding** |
| **Mandates** | 1. Finalize the Committee Draft text for MPEG-5 EVC (ISO/IEC CD 23094-1)
2. Coordinate development of the ETM 3.0 software and its distribution
3. Discuss initial thoughts on Verification Testing process for EVC
4. Discuss input documents to MPEG 128 relating to EVC
 |
| **Chairmen** | Ken McCann |
| **Duration** | Until 128th MPEG meeting |
| **Reflector(s)** | mpeg-5@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-5 |
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| **Meeting** | 09:00-13:00 Sunday before MPEG | Room Size | 40 |
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| **Name** | **AHG on Low Complexity Enhancement Video Coding** |
| **Mandates** | 1. Finalize Working Draft (WD2) and Test Model v2 for MPEG-5 LCEVC (ISO/IEC 23094-2)
2. Coordinate development of the LTM 2.0 software and its distribution
3. Validate results for LTM 2.0
4. Discuss input documents to MPEG 128 relating to LCEVC
 |
| **Chairmen** | Walt Husak, Simone Ferrara |
| **Duration** | Until next 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** | Saturday and Sunday before next MPEG meeting | Room Size | 30 |
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| **Name** | **AHG on Compression of Neural Networks for Multimedia Content Description and Analysis** |
| **Mandates** | 1. Collect more diverse types of models and test data for further use cases
2. Perform the CEs and analyse the results
3. Improve the working draft and test model
4. Continue analyzing the state of the art in NN compression and exchange formats
5. 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)Wei Wang (rick.wang@futurewei.com) |
| **Duration** | until 128th 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 128th meeting | Room Size | 50 |
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| **Name** | **AHG on Compact Descriptors for Video Analysis (CDVA)** |
| **Mandates** | 1. To maintain and improve the conformance data set and reference software.
2. To promote CDVA to the industry.
 |
| **Chairmen** | Werner Bailer, Lingyu Duan |
| **Duration** | until 128th 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-tnt |
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| **Meeting** | no meeting planned | 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 technologies under consideration and solicit contributions
3. Study OMAFv1 reference software and conformance and solicit contributions on missing parts
4. Study suitable manifest, and mesh mapping for late binding profile (jointly with DASH)
5. Study relationship between MIV and OMAF
6. 6) Collaborate with relevant SDOs, e.g. VRIF, 3GPP SA4
 |
| **Chairmen** | Sachin Deshpande, Ye-Kui Wang, Youngkwon Lim |
| **Duration** | Until the 128th MPEG Meeting |
| **Reflector(s)** | gen-sys@lists.aau.at |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/gen-sys |
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| **Meeting** | 6 October 2019 (Sunday), 2 PM to 9 PM | Room Size |
| Conference call on mandate 4 in week of 9 September 2019 with details to be announced |  |
| **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 and on Hyper Media use cases and requirements
4. 4) Keep relevant SDOs informed about MMT (ITU-T SG 16, ARIB, 3GPP, ATSC, etc.))
 |
| **Chairmen** | Imed BouaziziKyungmo Park |
| **Duration** | until MPEG meeting #128 |
| **Reflector(s)** | MMT-TNT@listserv.uni-hannover.de |
| **Subscribe** | MMT-TNT-request@listserv.uni-hannover.de |
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| **Meeting** | Sunday before meeting:14-18 | Room Size | 15 |
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| **Name** | **AHG on Application Formats** |
| **Mandates** | CMAF (Common Media Application Format)1. Study the TuC/DuI and solicit further input and feedback
2. Study the Exploration document and provide feedback
3. Solicit further contributions on CMAF conformance and test vectors

MIAF (Multi-Image Application Format)1. Study conformance and reference software for MIAF
2. Study and comment on the TuC for MIAF

VIAF (Visual Identity Application Format)1. To continue developing reference software and conformance
 |
| **Chairmen** | Krasimir Kolarov; Cyril Concolato |
| **Duration** | until 128th meeting |
| **Reflector(s)** | CMAF - mpeg-cmaf@lists.aau.atMIAF, VIAF - mpeg-maf-dev@lists.aau.at |
| **Subscribe** | CMAF - https://lists.aau.at/mailman/listinfo/mpeg-cmafMIAF, VIAF - https://lists.aau.at/mailman/listinfo/mpeg-maf-dev |
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| **Meeting** | Conference Call on CMAF on Sept. 3, 2019; 7:30-9 am PT (4:30-6 pm CEST) | Room Size |  |
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| **Name** | **AHG on MPEG-21 Contracts to Smart Contracts** |
| **Mandates** | 1. Solicit industry participation and contributions in the area of smart contracts
2. Get OMI use cases (on demand, streaming, broadcasting)
3. Create CEL/MCO/MVCO/AVCO contracts
4. Identify tools for converting CEL XML & MCO/MVCO/AVCO RDF contracts to JSON and then to Solidity/Move
5. Convert CEL/MCO/MVCO/AVCO contracts to Solidity/Move
 |
| **Chairmen** | Panos Kudumakis, Xin Wang |
| **Duration** | Until next meeting |
| **Reflector(s)** | smart-contracts@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/smart-contracts |
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| **Meeting** | None | Room Size | 10 |
|  |  |
| **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 MPEG 128 |
| **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 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. 4) Integrate Audio requirements on Scene Graph
 |
| **Chairmen** | Imed Bouazizi, Thomas Stockhammer, 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 14:00-16:00 | Room Size | 30 |
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| **Name** | **AHG on MPEG-I Architecture and Requirements** |
| **Mandates** | 1. To update the “Overview of Immersive Media Standards” (N18727)
2. To refine and verify the architecture(s) for Immersive Services (N18344)
3. To further develop the requirements MPEG-I phase 2
4. 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
5. To study N18654 (Requirements for Immersive Media Access and Delivery); to finalize the Media Adaptation Requirements and further develop other requirements
6. To solicit and review contributions on the Decoder Interface following the requirements in N18654
7. 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
 |
| **Chairmen** | 1. Thomas Stockhammer (tsto@qti.qualcomm.com)
2. Rob Koenen (rob@tiledmedia.com)
3. Mary-Luc Champel (champelmaryluc@xiaomi.com)
4. Jaeyeon Song (jy\_song@samsung.com)
5. Schuyler Quackenbush (srq@audioresearchlabs.com)
 |
| **Duration** | Until MPEG 128 |
| **Reflector(s)** | mpeg-i@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-i |
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| **Meeting** | Sunday before MPEG128, 09:00 - 14:00; end time to be coordinated with Scene Description AHG | Room Size |
| One call may be organized |  |
| **Name** | **AhG on MPEG DASH** |
| **Mandates** | 1. Study ad-insertion tools of TuC and finalize a solution for preroll and early ad termination.
2. Study signaling random-access points in DASH segments.
3. Study technologies under consideration (TuC; N18582) and defects under investigation (DuI; N18594).
4. Continue to work on conformance and reference software.
 |
| **Chairmen** | Iraj Sodagar, Christian Timmerer, Ali C. Begen |
| **Duration** | Until MPEG 128 |
| **Reflector(s)** | dash@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/dash |
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| **Meeting** | None | Room Size |  |
| Conference calls for mandate 1: - Dates: Sept 10, Sept 24  - Time: 8-9 AM PST |  |
| **Name** | **AHG on MPEG & 5G** |
| **Mandates** | 1. To study 5G use cases and requirements, specifications and ongoing activities that could be relevant to MPEG work.
2. To identify potential new MPEG activities that can help the industry deploy applications, including media services, over 5G.
3. To provide initial requirements for the identified new MPEG activities.
 |
| **Chairmen** | Per Fröjdh, per.frojdh@ericsson.com Emmanuel Thomas, emmanuel.thomas@tno.nlIgor Curcio, igor.curcio@nokia.com |
| **Duration** | Until MPEG 128 |
| **Reflector(s)** | mpeg-and-5g@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-and-5g |
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| **Meeting** | Saturday before MPEG 128 at 14:00-18:00 | Room Size |
| Conference call in the week of Sep 23. Details to be provided later. |  |
| **Name** | **AHG on Network Based Media Processing (NBMP)** |
| **Mandates** | 1. Study the TuC of NBMP and solicit technical contributions to improve it.
2. Conduct the NBMP Validation Experiment for NBMP Function Template
3. Study and develop the interoperability requirements in NBMP media plane.
4. Study the workplan to develop the reference S/W.
5. Explore the synergies between NBMP and other ISO related standards (e.g., Point Cloud and Big Data).
6. Study network based support of MPEG-I use cases. (e.g. Hyper Media)
7. 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 128 |
| **Reflector(s)** | mpeg-nbmp@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-nbmp |
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| **Meeting** | Saturday before MPEG | Room Size | 30 |
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| **Name** | **AHG on Font Format** |
| **Mandates** | 1. To study the text of the ISO/IEC 14496-22:2019/DAM1 and discuss and submit ballot comments.
2. To evaluate the feature set for vertical layout, discuss implementation details, and proposed changes and clarifications to ensure compatibility between different implementations.
 |
| **Chairmen** | Vladimir Levantovsky (Monotype) |
| **Duration** | Until the 128th WG11 meeting |
| **Reflector(s)** | mpeg - OTspec @ yahoogroups . com [remove spaces] |
| **Subscribe** | http://groups.yahoo.com/group/mpeg-OTspec/join |
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| **Meeting** |  | Room Size |
|  |  |
| **Name** | **AHG on Video Coding for Machines** |
| **Mandates** | 1. To collect use cases and related requirements for description and compression of video for machine analysis
2. To collect use cases and related requirements for combined human/machine-oriented video representation and compression
3. To promote video coding for machine and invite video compression and machine vision experts
4. To collect data sets, ground truth and metrics
5. To compare performance of analysis using original data vs. analysis using compressed features at different bit rates in the typical cases of object detection
6. To collect evidence on the level of achievability of combined human/machine-oriented video representation and compression
 |
| **Chairmen** | Yuan Zhang (China Telecom), zhangyuan1.sh@chinatelecom.cn, Patrick Dong (Gyrfalcon Tech), patrick.dong@gyrfalcontech.com |
| **Duration** | Until MPEG 128 |
| **Reflector(s)** | mpeg-vcm@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-vcm |
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| **Meeting** | 14:00-18:00 Sunday before MPEG 128 | Room Size |
|  |  |
| **Name** | **AHG on MPEG-I Audio and Audio Maintenance** |
| **Mandates** | 1. Execute Workplan on MPEG-I Audio
2. Study Draft Documentation for the MPEG-I Audio Evaluation Platform
3. Study MPEG-I Test and 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 128th MPEG Meeting |
| **Reflector(s)** | mpeg-audio-call@audioresearchlabs.com |
| **Subscribe** | • To subscribe or unsubscribe to the list, send email to the AhG Chair |
|  |  |  |
| **Meeting** | Web AhG meetings as follows:Date: September 11, 1000-1200 EasternTopic: Status of Workplan and Preparation for 127th meetingF2F meeting prior to 127th MPEG meeting at MPEG meeting venue on MPEG-I topics:1. 1300-1800 on Saturday
* 0900-1800 on Sunday
 | Room Size |
|  |  |
| **Name** | **AhG on Point Cloud Compression** |
| **Mandates** | 1. Finalize editing of V-PCC DIS
2. Improve documentation material for G-PCC
3. Update the TMs (SW and documentation) during the editing period
4. Coordinate activities on the V-PCC Reference SW and G-PCC Reference SW
5. Update the CTC and provide updated anchor points
6. Conduct the PCC Core Experiments, Exploration Experiments and Validation Experiment
7. Solicit contributions on profiles and conformance for V-PCC
8. Solicit contributions on additional PCC use cases
9. Solicit contributions on SEI messages for V-PCC and G-PCC
10. Coordinate scientific and technical dissemination of PCC
11. Coordinate communications of PCC to fairs, exhibitions, workshops and enrich www.mpeg-pcc.org with relevant information about PCC
12. Solicit additional data sets for all categories
 |
| **Chairmen** | Ralf Schaefer (Chair), Khaled Mammou, Madhukar Budagavi |
| **Duration** | Until 128th 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 |
|  |  |  |  |
| **Meeting** | Slot 1 September 5th and 6th (+-1 day)or Slot 2 September 9th and 10th (+- 1 day) | Room Size | place to be established Option 1 Paris Option US |
| Sunday before the MPEG meeting | 70: 09h00 to 18h00 |
| **Name** | **AhG on IoMT** |
| **Mandates** | Elaborate further new IoMT use casesSolicit contributions related to IoMT White paperCoordinate the activities related to IoMT Dissemination |
| **Chairmen** | Mihai Mitrea, Sang-Kyun Kim, Sungmoon Chun |
| **Duration** | Until 128th 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 |  |
| **Name** | **AHG on Compression of Machine Tool Data** |
| **Mandates** | 1. Collect use cases and requirements for the compression of machine tool data
2. Collect test data from machine tools typically stored for factory performance analysis and optimzation
3. Produce a report on the use cases
4. Reach out to industry to promote the activity
 |
| **Chairmen** | Jörn Ostermann |
| **Duration** | until 128th meeting |
| **Reflector(s)** | mpeg-mc@lists.aau.at |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-mc |
|  |  |  |  |
| **Meeting** |  | Room Size |  |
|  |  |