 ISO/IEC JTC 1/SC 29/WG 03 N0927

**ISO/IEC JTC 1/SC 29/WG 03  
MPEG Systems   
Convenorship: KATS (Korea, Republic of)**

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**Committee URL:** <https://isotc.iso.org/livelink/livelink/open/jtc1sc29wg3>

**INTERNATIONAL ORGANIZATION FOR STANDARDIZATION**

**ORGANISATION INTERNATIONALE DE NORMALISATION**

**ISO/IEC JTC 1/SC 29/WG 3 MPEG SYSTEMS**

**ISO/IEC JTC 1/SC 29/WG 03 N** **0927**

**July 2023, Geneva, CH**

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| **Title** | **List of WG 03 AHGs established at the 12th meeting** |
| **Source** | **Convenor** |
| **Serial Number** | **22921** |

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| **Name** | **AhG on Carriage of Green Metadata** | | |
| **Mandates** | 1. Prepare FDIS of AMD1 of 23001-11 3rd edition for EVC  2. Investigate uses and improvements of display power reduction metadata  3. Improve WD and prepare CD of AMD2 of 23001-11 3rd edition for new display power reduction metadata  4. Call for joint AHG meeting with DASH AHG  5. Study other potential improvements of 23001-11 3rd edition | | |
| **Chairmen** | Edouard Francois (InterDigital), Christian Herglotz (FAU), Yong He (Qualcomm) | | |
| **Duration** | Until next MPEG meeting | | |
| **Reflector(s)** | gen-sys@lists.aau.at – use [green] in email header | | |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/gen-sys | | |
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| **Meeting** | Several online sessions before the next MPEG meeting if necessary | Room Size |  |
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| **Name** | **AHG on Font Format** | | |
| **Mandates** | 1. Review the text of the updated Working Draft of ISO/IEC 14496-22 5th edition (WG03N0933).  2. Review the remaining parts of “Technologies under consideration for ISO/IEC 14496-22 5th edition Open Font Format” document (WG03N0888), work on developing and finalizing specification changes to overcome the 64K glyph limit and other changes, and provide recommendations for the WG3 on how these changes can be integrated in the “Open Font Format” standard.  3. Explore potential future changes and updates, and propose new items (if applicable) for consideration in the 5th edition of the OFF specification. | | |
| **Chairmen** | Vladimir Levantovsky (Type Standards) | | |
| **Duration** | Until next meeting | | |
| **Reflector(s)** | mpeg-otspec@lists.aau.at; https://github.com/MPEGGroup/OpenFontFormat | | |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-otspec | | |
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| **Meeting** | Zoom conference call may be held, if necessary (detailed information will be posted to the AHG reflector) | Room Size |  |
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| **Name** | **AhG on Redundant Encoding and Packaging (ReaP)** | | |
| **Mandates** | 1. Solicit technical and editorial feedback on the DIS.  2. Study the new developments in the ISOBMFF to replace the track grouping signaling that is currently addressed by the use of kind boxes and identifiers.  3. Transition from the old email reflector to the DASH email reflector | | |
| **Chairmen** | Rufael Mekuria (Unified Streaming)  Khaled Jerbi (Ateme)  Yasser Syed (Comcast) | | |
| **Duration** | Until the next MPEG meeting | | |
| **Reflector(s)** | dash@lists.aau.at (Note the switching to the DASH reflector). | | |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/dash | | |
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| **Meeting** | No AhG Meeting | Room Size |  |
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| **Name** | **AhG on Smart Contracts for Media** | | |
| **Mandates** | 1. Solicit industry participation and contributions for ISO/IEC 23000-23 Decentralized Media Rights Application Format based on ISO/IEC 21000-23 Smart Contracts for Media.  2. Study and solicit contributions (e.g., technologies and APIs) for ISO/IEC 23000-23 Decentralized Media Rights Application Format in the areas: a) Smart contracts and DLTs; b) Rights and metadata management; c) Content and creator IDs; and c) File formats and streaming protocols.  3. Enhance collaboration with liaisons (e.g., ISO/TC 307/WG3, ITU-T Q.22/SG16, INATBA, W3C DIDs, ISO/TC46/SC9/WG18 ISCC and EC) and conduct further dissemination activities (e.g., Digital Asset Management WG - Metaverse Standards Forum).  4. Study and improve the WD of ISO/IEC 23000-23 Decentralized Media Rights Application. | | |
| **Chairmen** | Panos Kudumakis and Mirko Zichichi | | |
| **Duration** | Until the 144th MPEG meeting | | |
| **Reflector(s)** | smart-contracts@lists.aau.at | | |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/smart-contracts | | |
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| **Meeting** | Biweekly calls starting Wed 2 Aug. 2023, alternatively at 13:00 & 15:00 UTC (2 h) | Room Size |  |
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| **Name** | **AhG on Syntactic Description Language** | | |
| **Mandates** | - To review TuC and propose updates  - To solicit input on implementation guidelines and examples | | |
| **Chairmen** | Youngkwon Lim | | |
| **Duration** | Until the 13th MPEG Systems WG meeting | | |
| **Reflector(s)** | gen-sys@lists.aau.at | | |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/gen-sys | | |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on Systems Technologies for Volumetric Media** | | |
| **Mandates** | 1. Study and solicit contributions to improve 23090-10, 23090-18 and their amendments  2. Discuss open issues in MPEG Git (http://mpegx.int-evry.fr/software/MPEG/Systems/PCC-SYS) and propose recommended dispositions  3. Study commonalities among 23090-2, 23090-10 and 23090-18 and propose common metadata definition to be moved to 23090-7  4. Study reference software and conformance for 23090-10 and 23090-18 and solicit contribution to improve them.  5. Study 23090-28 and 23090-29 related documents and solicit contributions regarding systems technologies for them. | | |
| **Chairmen** | Youngkwon Lim, Lauri Ilola | | |
| **Duration** | until the 13th MPEG Systems WG meeting | | |
| **Reflector(s)** | gen-sys@lists.aau.at | | |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/gen-sys | | |
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| **Meeting** | - one conference call (detail information will be announced to the gen-sys reflector) | Room Size |  |
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| **Name** | **AhG on Video Decoding Interface** | | |
| **Mandates** | 1. To study TuC, and solicit contributions to improve it  2. To solicit open source implementation of OpenMAX, MSE or Vulkan to be used as a starting point of implementation of VDI extensions.  3. Communicate with Khronos on the API extensions and other relevant topics related to VDI | | |
| **Chairmen** | Youngkwon Lim, Emmanuel Thomas, Thomas Stockhammer | | |
| **Duration** | Until the 13th MPEG Systems WG meeting | | |
| **Reflector(s)** | gen-sys@lists.aau.at | | |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/gen-sys | | |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on Application Formats** | | |
| **Mandates** | CMAF (Common Media Application Format)  1. Study the TuC and the preliminary WD, and solicit further input  2. Solicit further contributions on CMAF conformance and test vectors  3. Solicit feedback on the open issues on GitHub and GitLab  MIAF (Multi-Image Application Format)  1. Study the DIS and solicit further input.  2. Solicit feedback on the open issues on GitHub and GitLab | | |
| **Chairmen** | Krasimir Kolarov; Cyril Concolato | | |
| **Duration** | until 144th meeting | | |
| **Reflector(s)** | CMAF - mpeg-cmaf@lists.aau.at  MIAF, VIAF - mpeg-maf-dev@lists.aau.at | | |
| **Subscribe** | CMAF - https://lists.aau.at/mailman/listinfo/mpeg-cmaf  MIAF, VIMAF - https://lists.aau.at/mailman/listinfo/mpeg-maf-dev | | |
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| **Meeting** |  | Room Size |  |
| AF Conference call, October 12, 2023, 15:00-17:00 UTC |  | |

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| **Name** | **AhG on MPEG DASH** | | |
| **Mandates** | 1. Study and improve Part 1 Draft text of DAM2 (WG03N 996) and CDAM3 (WG03N 998)  2. Study technologies under consideration (TuC; WG03N 928) and defect under investigation (DuI; WG03N 981)  3. Address the editor's note in DAM2 regarding Picture in Picture.  4. Investigate segment rate signaling, the operation model, and how it works with segment timeline addressing  5. Continue to work on conformance and reference software | | |
| **Chairmen** | Iraj Sodagar, Christian Timmerer, Ali C. Begen | | |
| **Duration** | Until the next MPEG meeting | | |
| **Reflector(s)** | dash@lists.aau.at | | |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/dash | | |
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| **Meeting** |  | Room Size |  |
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| **Name** | **AHG on MPEG-I Scene Description** | | |
| **Mandates** | 1. Work with the audio group WG06 on progressing the integration of MPEG-I audio into the MPEG-I SD taking into account WG06 N0XXX and the SD TuC WG3 N0974.  2. Study the technologies in DAM2 of ISO/IEC 23090-14 in WG03\_N0942 for potential improvements  3. Progress the technologies in the TuC in WG03\_N0974.  4. Dispose issues in internal and public git environment  5. Collect/coordinate test assets that support the development of the MPEG-I Scene description work according to WG3 N0934, possible using deep learning models.  6. Validate and execute the workflow in WG03\_N0975 to create pull requests to Khronos through MPEG gitlab and github  7. Work on conformance and reference software based on procedures (WG03\_N0934), progress the PI-DIS (WG03\_N0972) and PWD (WG3\_N0973), and progress the issues in reference software (http://mpegx.int-evry.fr/software/MPEG/Systems/SceneDescription/software/reference/-/issues) and carriage (http://mpegx.int-evry.fr/software/MPEG/Systems/SceneDescription/software/23090-24-carriage/-/issues)  8. Extend the Gltf validator to address the MPEG\_ extensions, and review the process for a possible submission of these to the https://github.com/KhronosGroup/glTF-Validator  9. Evaluate the requirements coverage in WG03\_N0976 and work with MPEG-I Requirements AHG in order to identify requirements for phase 3 in context of Scene Description.  10. Collect information on ongoing scene description related work in the industry and in other groups and organizations and promote MPEG-I Scene Description, in particular to Khronos (WG03\_N1002), Metaverse Standards Forum and 3GPP | | |
| **Chairmen** | Thomas Stockhammer (tsto@qti.qualcomm.com)  Mary-Luc Champel (champelmaryluc@xiaomi.com)  Gaëlle Martin-Cocher (Gaelle.Martin-Cocher@InterDigital.com) | | |
| **Duration** | Until MPEG#144 | | |
| **Reflector(s)** | mpeg-i-scene@lists.aau.at | | |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-i-scene    Please check gitlab discussions here:  http://mpegx.int-evry.fr/software/MPEG/SceneDescription/MPEG-Contributions/issues  Please check public github discussions here:  https://github.com/MPEGGroup/Scene-Description | | |
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| **Meeting** | AHG Meetings  • Call: Monday August 6, 2023 13:30 – 15:00 UTC (15:30 – 17:00 CEST)  o From 14:15 UTC onwards WG06 joins for Audio.  o Additional participation of WG06 will be discussed during this slot  • Call: Monday September 11, 2023, 2023 13:30 – 15:00 UTC (15:30 – 17:00 CEST)  • Call: Monday October 2, 2023, 2023 13:30 – 15:00 UTC (15:30 – 17:00 CEST)  • F2f: Sunday October 15, 2023, 2023 14:00 – 18:00 local (13:00 – 17:00 UTC)  Note:  • 3GPP SA4#125, August 21-25, 2023 (Göteborg, Sweden)  • IBC 2023, September 15-18, 2023 (Amsterdam, The Netherlands)  • Thomas vacation, August 29 to September 6, 2023  • MPEG#144, October 16-20, 2023 (Hannover, Germany)  Logistics  • Zoom: http://iso.zoom.us/my/stockhammer, Passwd as of MPEG#143  • Chairs create issues in gitlab to collect comments.  • If MPEG#144 repository is not yet available, use MPEG#143 repository.  Calendar  - Subscription link for MPEG AHG Calls: http://mpeg.expert/live/nextcloud/remote.php/dav/public-calendars/HAwkATGsmc5bN3Qy?export  - Public link for MPEG AHG Calls http://mpeg.expert/live/nextcloud/index.php/apps/calendar/p/HAwkATGsmc5bN3Qy | Room Size | 40 |
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| **Name** | **AhG on MPEG File Formats** | | |
| **Mandates** | 1. Discuss and address the Github and Gitlab issues.  2. Support the groups using the file formats (including audio, DASH, CMAF, OMAF, MIAF, V3C systems, Haptics, NBMP et al.)  3. Study the Technologies under Consideration and Working Draft documents and propose improvements. Study the defect reports and propose corrigendum text.  4. Study the proposed clarifications on the definition of brands and the use of versions, particularly in the ISO base media file format, and suggest improvements.  5. Maintain and update the conformance streams, reference software, white papers and one-pagers, and registration authority, as needed. Study whether conformance checking can be (maybe partially) automated, and how the specifications and conformance can be managed as a coordinated workflow. Study the license of the reference software and possible change of license or alternatives.  6. Study processes to improve cross-verification of MPEG file format standards and continue the discussion on m60397  7. Explore alignment of DASH/CMAF/FF terminology, concepts and solutions, in particular the multi-track question  8. Explore potential low-overhead HEIF-compatible storage format  9. Study the codec-agnostic, lossless compression of uncompressed video, images and possibly other formats | | |
| **Chairmen** | Cyril Concolato (Netflix) and Miska Hannuksela (Nokia) | | |
| **Duration** | Until next meeting | | |
| **Reflector(s)** | mp4-sys@lists.aau.at  https://github.com/MPEGGroup/FileFormat | | |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mp4-sys | | |
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| **Meeting** |  | Room Size |  |
| - 1 meeting online on HEIF Exploration (2 weeks notice, End of Sept – Doodle Poll)  - 1 meeting on conformance (early September)  - 1 meeting for multi-track in the context of the joint DASH/FF/CMAF (2 weeks notice, early October – Doodle Poll) |  | |

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| **Name** | **AhG on Omnidirectional MediA Format (OMAF)** | | |
| **Mandates** | 1) Study the CD of amendment 2 of immersive media metrics.  2) Study the OMAF amendment WD on server-side dynamic adaptation.  3) Study the TuC of OMAF and TuC of immersive media metrics.  4) Study requirements of MPEG-I phase 2 especially in relation to OMAF.  5) Maintain relationship with relevant SDOs, (e.g., VRIF, 3GPP SA4). | | |
| **Chairmen** | Sachin Deshpande, Ye-Kui Wang, Youngkwon Lim | | |
| **Duration** | Until the next WG3 Meeting | | |
| **Reflector(s)** | gen-sys@lists.aau.at | | |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/gen-sys | | |
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| **Meeting** | Online AHG meeting (as required) will be announced 2 weeks in advance. | Room Size |  |
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