 ISO/IEC JTC 1/SC 29/WG 03 N0354

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

**Document type:** Meeting

**Title:** List of WG 03 AHGs established at the 5th meeting

**Status:** Approved

**Date of document:** 2021-10-15

**Source:** ISO/IEC JTC 1/SC 29/WG 03

**No. of pages:** 9 (with cover page)

**Email of Convenor:** young.L @ samsung . com

**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** **0354**

**October 2021, Virtual**

|  |  |
| --- | --- |
| **Title** | **List of WG 03 AHGs established at the 5th meeting** |
| **Source** | **Convenor** |
| **Serial Number** | **20832** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **AHG on Font Format** | | |
| **Mandates** | 1. Review the text of ISO/IEC 14496-22 Draft International Standards amendment 2.  2. Explore potential future changes and updates, and propose new work items (if applicable) for consideration in the future new 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 | | |
|  |  |  |  |
| **Meeting** | Zoom conference call may be held, if necessary (detailed information will be posted to the AHG reflector) | Room Size |  |
|  |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **AhG on Carriage of Green Metadata** | | |
| **Mandates** | 1. Study extensions of 23001-11 on decoding complexity metrics for decoder-power reduction  2. Study extensions of 23001-11 on metrics for quality recovery after low-power encoding  3. Study extensions of 23001-11 on signalling for remote decoder-power reduction  4. Consolidate the CD specification of 23001-11 3rd edition and prepare DIS  5. Prepare software implementation of the Green Metadata for VVC | | |
| **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 | | |
|  |  |  |  |
| **Meeting** | Several online sessions before the next MPEG meeting if necessary | Room Size |  |
|  |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **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, MORE, MIAF, PCC, 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, particularly in the ISO base media file format, and suggest improvements.  5. Study improvements to movie fragments especially when recording e.g. at gateways, and dynamic tracks.  6. Study the use of T.35 as an extension mechanism as proposed in M55790.  7. 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 using Kaitai or automated parsers, and how the specifications and conformance can be managed as a coordinated workflow.  8. Check the specifications for unregistered MIME types and parameters and start registering them. Audit files as needed for the MP4RA.  9. Consider the designs for renderable text in the HEIF format. | | |
| **Chairmen** | David Singer (Apple) and Per Fröjdh (Ericsson) | | |
| **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 | | |
|  |  |  |  |
| **Meeting** | yes, virtual via Doodle | Room Size | n/a |
| 2 hours Zoom |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **AhG on Omnidirectional MediA Format (OMAF)** | | |
| **Mandates** | 1) Issue CD text for amendment 1 of OMAF  2) Preparation of OMAF version2 reference software and conformance  3) Issue FDIS text for Metadata for Immersive Media (23090-7)  4) Study the metrics under consideration (23090-6 TuC)  5) Study the technologies under consideration (23090-2 TuC)  6) 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 | | |
|  |  |  |  |
| **Meeting** | Online AHG meeting (as required) will be announced 2 weeks in advance | Room Size |  |
|  |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **AhG on Network-Based Media Processing** | | |
| **Mandates** | 1. Improve the potential improvement to DAM1 (WG03 N0394) and TuC (WG03 N0363)  2. Improve and update NBMP Implementation Guidelines draft text DTR (WG03 N0419) including aligning it with NBMP FDIS and DAM1  3. Provide implementibility evidence for reference function templates of the 2nd edition  4. Solicit inputs on the conformance software and test vectors, and OpenAPI descriptions and develop a work plan for them  5. Develop the plan for collaboration with other relevant SDOs, e.g., 3GPP SA4, ATSC, ETSI MEC, and OpenStack Foundation  6. Solicit new NBMP use-cases and applications for the future development of the standard | | |
| **Chairmen** | Kyungmo Park (SK Telecom), and Iraj Sodagar (Tencent) | | |
| **Duration** | Until the next MPEG meeting | | |
| **Reflector(s)** | mpeg-nbmp@lists.aau.at | | |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/mpeg-nbmp | | |
|  |  |  |  |
| **Meeting** | no meeting | Room Size |  |
|  |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **AHG on Application Formats** | | |
| **Mandates** | CMAF (Common Media Application Format)  1. Study the TuC/DuI and the Exploration documents and solicit further input  2. Clarify the text regarding edit list  3. Study the use of ISOBMFF type combination and supplemental brands  4. Solicit feedback on the DIS of Amd1 of Ed 3  5. Solicit further contributions on CMAF conformance and test vectors  6. Solicit feedback on the open issues on GitHub and GitLab  MIAF (Multi-Image Application Format)  1. Study the TuC and solicit further input  2. Solicit feedback on the open issues on GitHub and GitLab | | |
| **Chairmen** | Krasimir Kolarov; Cyril Concolato | | |
| **Duration** | until 137th 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 | | |
|  |  |  |  |
| **Meeting** |  | Room Size |  |
| AF Conference call, AdHoc call in November on GitHub/GitLab issues; January 13, 2022, 17:00-19:00 CEST |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **AhG on MPEG DASH** | | |
| **Mandates** | 1. Study and improve Part 1 draft text of DAM1 (WG3 N0386), and Part 8 DAM1 (N0399)  2. Study technologies under consideration (TuC; WG3 N0393) and defect under investigation (DuI; WG3 N0374)  3. Continue to work on conformance and reference software  4. Study the preroll/preperiod element of the draft text DAM1, and reverse MPD chaining and MPD stack chaining of TuC, and finalize the solution  5. Study the fast tune-in use case and various proposals in TuC and develop a solution  6. Study and improve the signaling and client processing of events as in TuC and DuI and address SCTE/DVB questions on this topic.  7. Improve the text of EDRAP based streaming in DAM2 WD (N0425).  8. Address the need and scope of standardization on HTTP Adaptation Parameters to Support Server-Side Dynamic Adaptation for DASH in TuC  9. Address DVB questions regarding MPD update requirements as indicated in its liaison | | |
| **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 | | |
|  |  |  |  |
| **Meeting** | Conf calls:  - Monday Nov 8, 16-17:30 UTC, Agenda: mandates 5 and 7  - Monday Dec 13, 16-17:30 UTC, Agenda: mandate 4  - Friday Jan 14, 17-18:30 UTC, Preparation call for MPEG#137 | Room Size |  |
| Zoom link: https://iso.zoom.us/j/4158105690  Password in MPEG's Nextcloud calendar. |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **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 MPEG-I system decoder architecture and solicit contributions to improve it. | | |
| **Chairmen** | Youngkwon Lim, Lauri Ilola | | |
| **Duration** | until the 6th MPEG Systems WG meeting | | |
| **Reflector(s)** | gen-sys@lists.aau.at | | |
| **Subscribe** | http://lists.aau.at/mailman/listinfo/gen-sys | | |
|  |  |  |  |
| **Meeting** | - biweekly conference calls (detail information will be announced to the gen-sys reflector) | Room Size |  |
|  |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **AhG on Video Decoding Interface** | | |
| **Mandates** | 1. To study CD (WG03N0290)and TuC (WG03N0301), and solicit contributions to improve it  2. To disseminate to JVET the CD of Video Decoding Interface for Immersive Media  3. To solicit contributions to improve the proposed input formatting library on gitlab (https://gitlab.com/mpeg-i/video-decoding-interface/libbeam)  4. To solicit open source implementation of OpenMAX, MSE or Vulkan to be used as a starting point of implementation of VDI extensions.  6. To solicit the contributions to improve SEI messages for input formatting function | | |
| **Chairmen** | Youngkwon Lim, Emmanuel Thomas, Thomas Stockhammer | | |
| **Duration** | Until the 6th MPEG Systems WG meeting | | |
| **Reflector(s)** | gen-sys@lists.aau.at | | |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/gen-sys | | |
|  |  |  |  |
| **Meeting** | - One conference call in each month  (detail information will be announced to the gen-sys reflector) | Room Size |  |
|  |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **AhG on Encoder and Packager Synchronization** | | |
| **Mandates** | 1. Review the draft CfP and steer it to community consensus  2. Distribute information and increase awareness of this activity to potential proponents and implementors  3. Organize an AhG call in January | | |
| **Chairmen** | Rufael Mekuria  Alex Giladi  Khaled Jerbi | | |
| **Duration** | Until the 137th MPEG meeting | | |
| **Reflector(s)** | synched-encoding@lists.aau.at | | |
| **Subscribe** | https://lists.aau.at/mailman/listinfo/synched-encoding | | |
|  |  |  |  |
| **Meeting** | A call prior to the MPEG meeting | Room Size |  |
| Zoom links: To be posted in the reflector | Online | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **AHG on MPEG-I Scene Description** | | |
| **Mandates** | 1. Complete the analysis of the capabilities of glTF2.0 and the agreed MPEG Extensions against the requirements for MPEG-I Scene description WG3 N0369  2. For each technology in the draft FDIS (WG3 N0421) for phase 1, identify if it fulfills the requirements in (WG3 N0369), clause 6 and if not, progress the relevant aspects, including specification text, reference software and test scenarios.  3. For each extension in the draft FDIS (WG3 N0421) complete the registration form as glTF2.0 extension and communicate with Khronos.  4. Dispose all NB comments from draft DoC (WG3 N0387) and produce a stable version of FDIS.  5. Address the integration of V-PCC, G-PCC, V3C and other MPEG codecs and technologies into Scene Description jointly with 3DG/video/systems/audio based on m52389  6. Progress the issues in the TuC and the new phase 2 issues, including AR, Interactivity and support for haptics.  7. Collect/coordinate test assets that support the development of the MPEG-I Scene description work according to clause 5 of (WG3 N0368).  8. Conduct the evaluation experiments on as defined in WG3 N0383  9. Validate all reference software branches, merge them into a single branch, improve the description of the reference software and progress the WD (WG3 N0389).  10. Monitor ongoing scene description related work in the industry and in other groups and organizations  11. Communicate with Khronos on the MPEG extensions and other relevant topics related to Scene Description | | |
| **Chairmen** | Thomas Stockhammer (tsto@qti.qualcomm.com)  Mary-Luc Champel (champelmaryluc@xiaomi.com) | | |
| **Duration** | Until MPEG137 | | |
| **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 | | |
|  |  |  |  |
| **Meeting** | AHG Extended Meeting  • December 8-10, 2021  NOTE: The morning sessions will be dedicated to FDIS editing. The afternoon sessions will be dedicated to discussing contributions.  AHG Calls  • Monday October 25, 2021 13:30 – 15:00 UTC (15:30 – 17:00 CEST)  • Monday November 8, 2021 14:30 – 16:00 UTC (15:30 – 17:00 CEST)  • Monday November 22, 2021 14:30 – 16:00 UTC (15:30 – 17:00 CEST)  • Monday December 20, 2021 14:30 – 16:00 UTC (15:30 – 17:00 CEST)  • Friday January 14, 2022 14:30 – 16:00 UTC (15:30 – 17:00 CEST)  Logistics  - Zoom: http://iso.zoom.us/my/stockhammer, Passwd as of MPEG#136  - Chairs create issue in gitlab to collect comments.  - If MPEG#137 repository is not yet available, use MPEG#136 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 |  |
|  |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **AHG on Smart Contracts for Media** | | |
| **Mandates** | 1. Study and solicit contributions on conformance and reference software validation wrt MPEG XML & RDF media contracts to smart contracts and vice versa, beyond Solidity/Ethereum, that is, Michelson/Tezos for CEL and Teal/Algorand for MCO.      1. Study and solicit contributions on improving the reference software demonstration wrt a) ID@RT rights metadata API, b) CEL/MCO template contracts validation and c) artists royalties’ dashboard, for different use cases (e.g., on-demand streaming, digital sale, radio broadcast).      1. Conduct dissemination activities for the ISO/IEC 21000-23 Smart Contracts for Media (e.g., white paper, webinar, liaisons). | | |
| **Chairmen** | Panos Kudumakis and Xin Wang | | |
| **Duration** | Until the 137th MPEG meeting | | |
| **Reflector(s)** | [smart-contracts@lists.aau.at](mailto:smart-contracts@lists.aau.at) | | |
| **Subscribe** | [https://lists.aau.at/mailman/listinfo/smart-contracts](https://protect2.fireeye.com/v1/url?k=f5acf791-aa37cede-f5ad7cde-0cc47a30d446-7a70f76ecf905b96&q=1&e=f6b546f4-65c8-4013-9e35-12c70c613349&u=https%3A%2F%2Flists.aau.at%2Fmailman%2Flistinfo%2Fsmart-contracts) | | |
| **Meeting** | Biweekly calls starting Wed 27 Oct. 2021, all at 13:00 UTC (2 h) | Room Size | N/A |
|  |  |  |  |