Source: VIDEO SWG Chairman[[1]](#footnote-1)

Title: Proposed meeting agenda for VIDEO SWG during SA4#129-e rev7

Document for: your information

Agenda Item: 9

9. Video SWG

9.1 Opening of the session

Link to online minutes:  [https://docs.google.com/document/d/1smc\_R\_l3RjdQ6Jk2A5t7xcjpDmMBkZ092ZxhYyKDs-4/edit?usp=sharing](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdocs.google.com%2Fdocument%2Fd%2F1smc_R_l3RjdQ6Jk2A5t7xcjpDmMBkZ092ZxhYyKDs-4%2Fedit%3Fusp%3Dsharing&data=05%7C02%7Cteniou%40GLOBAL.TENCENT.COM%7Cf6267dd3ab3647f4508e08dcc10f0a97%7Ca32856f21731405cb53d480e26413adf%7C1%7C0%7C638597518846858312%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=gLbVOD9OEsTi%2B5q%2Fzfzoc7vQh42xD1%2Ba2P2eqdxTZOs%3D&reserved=0)

Minute takers (Thank you!!)

|  |  |  |  |
| --- | --- | --- | --- |
| **session** | **Scribe** | **Scribe** | **Scribe** |
| **Slot 1 (90min)**  **FS\_AI4Media** | Gaëlle Martin-Cocher | Eric Yip | ? |
| **Slot 2 (90min)**  **FS\_Beyond2D - VOPS** | Thomas Stockhammer | Emmanuel Thomas | Bart Kroon |
| **Slot 3 (90min)**  **FS\_AVATAR** | Emmanuel Thomas | ? | ? |
| **Slot 4 (90min)**  **Washup session** | Thomas Stockhammer | Bart Kroon | Jiayi Xu |
| **Slot 5 (90min)**  **FS\_ARSpatial, FS\_FGS, Washup** | Gaëlle Martin-Cocher | Jiayi Xu | ? |

9.2 IPR and antitrust reminder

IPR & Competion Law:

<https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Inbox/Drafts/IPR%20%26%20Competition%20Law/SA4-SWG-IPR-CompetionLaw.pptx>

9.3 Liaisons with other groups/meetings – *Plenary A.I. 5.2 / 5.3*

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| **Tdoc** | **Title** | **Status** |
| [**S4-241461**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241461.zip) | Liaison statement from SC 29/WG 3 to 3GPP SA 4 on MV- HEVC Integration and codec string [SC 29/WG 3 N 1334] | **noted** |
| [**S4-241462**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241462.zip) | Liaison statement from SC 29/WG 3 to 3GPP SA 4 on Avatar Representation Formats [SC 29/WG 3 N 1337] | **postponed** |
| [**S4-241463**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241463.zip) | Liaison statement from SC 29/WG 4 to 3GPP SA 4 on Feature coding for machines [SC 29/WG 4 N 529] | **Tentatively Replied in XX** |
| [**S4-241418**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241418.zip) | Reply LS on clarification on mobile metaverse services | **noted** |
| [**S4-241423**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241423.zip) | LS to request clarification on mobile metaverse services | **noted** |
| [**S4-241424**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241424.zip) | Reply LS on request clarification on mobile metaverse services | **noted** |
|  | | |
| **XX** | Reply LS to MPEG on FCM | **Gotoplen 5.3** |

9.4 CRs to Features in Release 18 and earlier *– Closing plenary A.I. 13*

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| **Tdoc** | **Title** | **Status** |
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9.5 VOPS (Video Operating Points – Harmonization ans Stereo MV-HEVC) *– Closing plenary A.I. 14.2*

WID: [SP-240060](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_103_Maastricht_2024-03/Docs/SP-240060.zip) New WID on Video Operating Points - Harmonization and Stereo MV-HEVC

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| **Tdoc** | **Title** | **Status** |
| **General** | | |
| [**S4-241526**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241526.zip) | [VOPS] On adding MV-HEVC capabilities for messaging | **Rev to 1625** |
| [**S4-241478**](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.3gpp.org%2Fftp%2FTSG_SA%2FWG4_CODEC%2FTSGS4_129-e%2FDocs%2FS4-241478.zip&data=05%7C02%7Cteniou%40global.tencent.com%7C4eaa6320aace4f6c133a08dcc03fbe1f%7Ca32856f21731405cb53d480e26413adf%7C1%7C0%7C638596627229827716%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=EqZYB5ucMxY5hogsV%2FxcdPZhxK7tdBvMu1j3eXnVvLk%3D&reserved=0) | [VOPS] Completion of existing Capabilities | **agreed** |
| [**S4-241525**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241525.zip) | [VOPS] Updates on codec string encoding for L-HEVC | **Revised to 1703** |
| [**S4-241625**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241625.zip) | [VOPS] On adding MV-HEVC capabilities for messaging | **Revised to 1704** |
| [**S4-241480**](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.3gpp.org%2Fftp%2FTSG_SA%2FWG4_CODEC%2FTSGS4_129-e%2FDocs%2FS4-241480.zip&data=05%7C02%7Cteniou%40global.tencent.com%7C4eaa6320aace4f6c133a08dcc03fbe1f%7Ca32856f21731405cb53d480e26413adf%7C1%7C0%7C638596627229838530%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=8KzylRnpJ3VBoiMfts93JwhD71SsXFzxgFu9jjlo5KQ%3D&reserved=0) | [VOPS] System Operation Points | **Revised to 1705** |
| **CR to 26.511** | | |
| [**S4-241527**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241527.zip) | [VOPS] Updates for MV-HEVC | **Endorsed** |
| **Work plan** | | |
| **S4-241528** | [VOPS] Work Plan | **Revised 1706** |
|  | | |
| **1669** | Draft TS 26.265 v0.3.0 | **Gotoplen (14.2)** |
| **1703** | [VOPS] Updates on codec string encoding for L-HEVC | **agreed** |
| **1704** | [VOPS] On adding MV-HEVC capabilities for messaging | **agreed** |
| **1705** | [VOPS] System Operation Points | **Agreed** |
| **1706** | [VOPS] Work Plan | **Agreed (gotoplen 14.2)** |

9.6 FS\_AI4Media (Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media) *– Closing plenary A.I. 15.5*

WID: [SP-230538](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_100_Taipei_2023-06/Docs/SP-230538.zip) revised SID on Artificial Intelligence (AI) and Machine Learning (ML) for Media

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| **Tdoc** | **Title** | **Status** |
| **pCRs on TR 26.927** | | |
| [**S4-241597**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241597.zip) | Draft TR 26.927 Study on AIML in 5G services v0.8.1 | **agreed** |
| **pCRs on TR 26.927** | | |
| [**S4-241557**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241557.zip) | [FS\_AI4Media] On architecture variants for collaboration scenarios | **Agreed(TR)** |
| [**S4-241440**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241440.zip) | [FS\_AI4Media] pCR on real-time communication scenarios | **Revised to 1647** |
| [**S4-241554**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241554.zip) | [FS\_AI4Media] pCR on compression metadata for split operations | **Revised to 1667** |
| [**S4-241508**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241508.zip) | [FS\_AI4Media] pCR on IMS mapping | **Revised to 1715** |
| [**S4-241578**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241578.zip) | [FS\_AI4Media] Mapping to IMS using DC Applications | **Revised to 1689** |
| [**S4-241551**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241551.zip) | [FS\_AI4Media] pCR on conclusions for split operations | **Revised to YY** |
| [**S4-241552**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241552.zip) | [FS\_AI4Media] pCR on intermediate data compression editor note | **Revised to ZZ** |
| [**S4-241553**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241553.zip) | [FS\_AI4Media] pCR on update metadata for split operations | **Revised to AA** |
| [**S4-241555**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241555.zip) | [FS\_AI4Media] pCR on update on Split AIML procedure | **Revised to BB** |
| [**S4-241558**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241558.zip) | [FS\_AI4Media] On collaboration scenarios and use cases | **Revised to CC** |
| **Evaluation aspects** | | |
| [**S4-241556**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241556.zip) | [FS\_AI4Media] Evaluation Permanent Document v0.6.1 | **agreed** |
| [**S4-241586**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241586.zip) | [FS\_AI4Media] pCR on NNC results for compression of model data for automatic speech recognition | **Agreed(evTR)** |
| [**S4-241580**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241580.zip) | [FS\_AI4Media] Real-time Translation Test Scenario | **Agreed (ePD)** |
| **Work plan** | | |
| [**S4-241563**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_129-e/Docs/S4-241563.zip) | [FS\_AI4Media] Proposed Updated Time and Work Plan | **Revised to 1707** |
|  | | |
| **1647** | [FS\_AI4Media] pCR on real-time communication scenarios | **Agreed (TR)** |
| **1667** | [FS\_AI4Media] pCR on compression metadata for split operations | **Agreed (TR)** |
| **1662** | Draft TR 26.927 v0.9.0 | **Gotoplen 15.5** |
| **1643** | Draft TR 26.847 v0.3.0 | **Gotoplen 15.5** |
| **1689** | [FS\_AI4Media] Mapping to IMS using DC Applications | **Agreed (TR) + Ed note** |
| **1715** | [FS\_AI4Media] pCR on IMS mapping | **Agreed (TR)** |
| **YY** | [FS\_AI4Media] pCR on conclusions for split operations | **Agreed(PD)** |
| **ZZ** | [FS\_AI4Media] pCR on intermediate data compression editor note | **Agreed(TR) + note** |
| **AA** | [FS\_AI4Media] pCR on update metadata for split operations | **Agreed (TR)** |
| **BB** | [FS\_AI4Media] pCR on update on Split AIML procedure | **Agreed (TR)** |
| **CC** | [FS\_AI4Media] On collaboration scenarios and use cases | **Agreed (TR)** |
| **1707** | [FS\_AI4Media] Proposed Updated Time and Work Plan | **Agreed (gotoplen 15.5)** |
| **1717** | PD | **Agreed (gotoplen 15.5)** |
| **1716** | Evaluation PD | **Agreed (gotoplen 15.5)** |

9.7 FS\_FGS (Feasibility Study on Film Grain Synthesis) *– Closing plenary A.I. 15.6*

WID: [SP-230539](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_100_Taipei_2023-06/Docs/SP-230539.zip) New SID on Feasibility Study on Film Grain Synthesis

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| **Tdoc** | **Title** | **Status** |
| [**S4-241483**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241483.zip) | Proposed Updates to Feasibility Study on Film Grain synthesis | **Revised to 1720** |
| [**S4-241482**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241482.zip) | [FS\_FGS] Draft TR 26.8xx | **Merged with XX** |
| [**S4-241596**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241596.zip) | Proposed internal TR for the FS\_FGS study | **Revised to XX** |
|  | | |
| **1720** | Proposed Updates to Feasibility Study on Film Grain synthesis | **Agreed (gotoplen 15.6)** |
| **XX** | Proposed internal TR for the FS\_FGS study | **Agreed gotoplen 15.6** |
| **AA** | Cover page | **Gotoplen 15.6** |

9.8 FS\_AVATAR (Feasibility Study on Avatars for Real-Time Communication) *– Closing plenary A.I. 15.7*

WID: [SP-230544](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_100_Taipei_2023-06/Docs/SP-230544.zip) New SID on Feasibility Study on Avatars for Real-Time Communication

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| **Tdoc** | **Title** | **Status** |
| **General** | | |
| [**S4-241489**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241489.zip) | [FS\_AVATAR] Mesh-based avatar protection | **Revised to AA** |
| [**S4-241516**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241516.zip) | [FS\_AVATAR] User-avatar authentication in AR calls | **Revised to 1679** |
| [**S4-241565**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241565.zip) | [FS\_Avatar]Usage of the term “Digital Asset Container (DAC)” for Avatar Storage | **noted** |
| **Formats & representation** | | |
| [**S4-241517**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241517.zip) | [FS\_AVATAR] 3DGS Avatar Representation | **agreed** |
| [**S4-241590**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241590.zip) | [FS\_AVATAR] pCR on MPEG Avatar Representation Format | **Rev to 1687** |
| [**S4-241593**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241593.zip) | [FS\_AVATAR] On the Message Format and Carriages for Skeletal Information for Animation | **noted** |
| **Architecture aspects** | | |
| [**S4-241509**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241509.zip) | [FS\_AVATAR] pCR on IMS mapping | **Revised to 1744** |
| [**S4-241515**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241515.zip) | [FS\_AVATAR] OpenXR Tracking Framework for Avatar | **Revised to 1688** |
| [**S4-241591**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241591.zip) | [FS\_AVATAR] pCR on Reference Architecture Mapping to Non-IMS Services | **Revised to 1686** |
|  | | |
| **1679** | [FS\_AVATAR] User-avatar authentication in AR calls | **agreed** |
| **1695** | PD | **Gotoplen 15.7** |
| **1687** | [FS\_AVATAR] pCR on MPEG Avatar Representation Format | **agreed** |
| **1696** | Draft TR | **Gotoplen 15.7** |
| **AA** | [FS\_AVATAR] Mesh-based avatar protection | **Agreed (TR)** |
| **1744** | [FS\_AVATAR] pCR on IMS mapping | **Agreed(PD)** |
| **1688** | [FS\_AVATAR] OpenXR Tracking Framework for Avatar | **Agreed(PD) + ‘3D’** |
| **1686** | [FS\_AVATAR] pCR on Reference Architecture Mapping to Non-IMS Services | **Agreed (TR) + note** |
| **1694** | Workplan | **Gotoplen 15.7** |

9.9 FS\_Beyond2D (Study on Beyond 2D Video) *– Closing plenary A.I. 15.8*

WID: [SP-240066](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_103_Maastricht_2024-03/Docs/SP-240066.zip) New SID on Beyond 2D Video

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| **Tdoc** | **Title** | **Status** |
| **Scenarios** | | |
| [**S4-241618**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241618.zip) | Streaming of Beyond 2D Produced VoD Content – Use Case “Volumetric Video with single asset” | **noted** |
| **Representation Formats** | | |
| [**S4-241601**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241601.zip) | On representation format – Dynamic Point Cloud representation format | **Rev to 1604** |
| [**S4-241481**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241481.zip) | [FS\_Beyond2D] Representation Format - Extended Stereoscopic Video | **Revised to 1708** |
| [**S4-241518**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241518.zip) | [FS\_Beyond2D] Representation Format - Neural Radiance Fields (NeRF) | **Revised to XX** |
| [**S4-241519**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241519.zip) | [FS\_Beyond2D] Representation Format - 3D Gaussian Splatting (3DGS) | **noted** |
| [**S4-241604**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241604.zip) | On representation format – Dynamic Point Cloud representation format | **noted** |
| [**S4-241620**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241620.zip) | On representation format – Dynamic Point Cloud representation format | **Revised to 1710** |
| **Sequences** | | |
| [**S4-241488**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241488.zip) | [FS\_Beyond2D] Available Datasets, tools, softwares for Stereoscopic Video Source Sequences | **Revised to 1674** |
| **Quality aspects** | | |
| [**S4-241494**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241494.zip) | [FS\_Beyond2D] Quality examples of the point cloud representation format for streaming single asset scenario | **agreed** |
| [**S4-241520**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241520.zip) | [FS\_Beyond2D] Quality aspects of stereoscopic video content | **Revised to ZZ** |
| **Draft TR** | | |
| [**S4-241491**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241491.zip) | [FS\_Beyond2D] TR 26.956 v0.0.4 | **agreed** |
| **Workplan** | | |
| [**S4-241493**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241493.zip) | [FS\_Beyond2D] Work Plan V3.0 | **Revised to AA** |
| **Permanent document** | | |
| [**S4-241492**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241492.zip) | [FS\_Beyond2D] Permanent Document v0.0.3 | **agreed** |
|  | | |
| **1674** | [FS\_Beyond2D] Available Datasets, tools, softwares for Stereoscopic Video Source Sequences | **agreed** |
| **BB** | PD | **Gotoplen 15.8** |
| **1708** | [FS\_Beyond2D] Representation Format - Extended Stereoscopic Video | **agreed** |
| **XX** | [FS\_Beyond2D] Representation Format - Neural Radiance Fields (NeRF) | **agreed** |
| **1710** | On representation format – Dynamic Point Cloud representation format | **agreed** |
| **ZZ** | [FS\_Beyond2D] Quality aspects of stereoscopic video content | **agreed** |
| **AA** | [FS\_Beyond2D] Work Plan V3.0 | **Agreed (gotoplen15.8)** |
| **CC** | Draft TR 26.956 v0.1.0 | **Gotoplen 15.8** |

9.10 FS\_ARSpatial (Study on Spatial Computing for AR Services) *– Closing plenary A.I. 15.12*

WID: [SP-240927](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_104_Shanghai_2024-06/Docs/SP-240927.zip) SID on Spatial Computing for AR Services

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| **Tdoc** | **Title** | **Status** |
| **Functions** | | |
| [**S4-241608**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241608.zip) | [FS\_ARSpatial] Spatial Computing Functions | **Rev to XX** |
| **Draft TR** | | |
| [**S4-241607**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241607.zip) | [FS\_ARSpatial] TR 26.819 Skeleton v0.0.1 | **agreed** |
| **Workplan** | | |
| [**S4-241605**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241605.zip) | [FS\_ARSpatial] Time Plan for the FS\_ARSpatial Study Item v0.0.1 | **Revised to ZZ** |
|  | | |
| **XX** | [FS\_ARSpatial] Spatial Computing Functions | **Agreed (TR)** |
| **YY** | Draft TR 26.819 v0.1.0 | **Gotoplen 15.12** |
| **ZZ** | [FS\_ARSpatial] Time Plan for the FS\_ARSpatial Study Item | **Agreed (gotoplen 15.12)** |

9.11 Other Rel-19 matters including TEI *– Closing plenary A.I. 14*

9.12 Liaisons and Liaison Responses

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| **Tdoc** | **Title** | **Status** |
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9.13 Any Other Business

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| **Tdoc** | **Title** | **Status** |
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9.14 Close of the session

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| **Tdoc** | **Title** | **Status** |
| **1664** | Video SWG report during SA4#129-e | **Gotoplen 12.3** |

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**Tdoc “color code”: black** **= submitted for the meeting by the Tdoc submission deadline**

**gray** **= submitted for the meeting after the Tdoc submission deadline**

**blue = postponed from an earlier SA4 meeting**

**red** **= covered during this meeting**

Highlighted **= missing document**

Highlighted = email agreement ongoing

Highlighted = status defined from email agreement process

**~~strikethrough~~ = withdrawn**

Conclusion codes: n: noted, r: revised, a: agreed, awp: agreed without presentation, w: withdrawn, pl: go to plenary, nt: not treated

Meeting schedule (Including Indicative tropics per session)

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| **Milestone/session** | **Date** | **CEST** | **PDT** | **KST** |
| Start of SA4 e-meeting (Email) | 19th Aug. | 9am | 12am | 4pm |
| Start of SWG e-meeting | 19th Aug. | 9am | 12am | 4pm |
| **Opening plenary Telco** | 19th Aug. | 3pm  6pm | 6am  9am | 10pm  1am (+1) |
| Slot 1 (90min)  FS\_AI4Media | 20th Aug. | 3pm  4:30pm | 6am  7:30am | 10pm  11:30pm |
| Slot 2 (90min)  FS\_Beyond2D - VOPS | 21st Aug. | 3pm  4:30pm | 6am  7:30am | 10pm  11:30pm |
| Slot 3 (90min)  FS\_AVATAR | 21st Aug. | 4:30pm  6pm | 7:30am  9am | 11:30pm  1am (+1) |
| Slot 4 (90min)  Washup session | 22nd Aug. | 3pm  4:30pm | 6am  7:30am | 10pm  11:30pm |
| Slot 5 (90min)  FS\_ARSpatial, FS\_FGS, Washup | 22nd Aug. | 4:30pm  6pm | 7:30am  9am | 11:30pm  1am (+1) |
| **Closing plenary Telco** | 23rd Aug. | 3pm  6pm | 6am  9am | 10pm  1am (+1) |

More local times available [here](https://savvytime.com/converter/ca-los-angeles-to-canada-toronto-united-kingdom-london-cest-finland-helsinki-china-beijing-south-korea-seoul-japan-tokyo/apr-8-2024/12-45am).

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| **Start times** | **Monday August 19** |  | **Tuesday August 20** | | |  | **Wednesday August 21** | | |  | **Thursday August 22** | | |  | **Friday August 23** |
| CEST |  |  |  | | |  |  | | |  |  | | |  |  |
|  |  |  | **Room 1** | **Room 2** | **Room 3** |  | **Room 1** | **Room 2** | **Room 3** |  | **Room 1** | **Room 2** | **Room 3** |  |  |
| 15:00:00 | Opening Plenary  Agenda Item 1-6 |  | MBS SWG (Maintenance, FS\_MeMe) | Video SWG (FS\_AI4Media) | RTC SWG (5G\_RTP\_Ph2) |  | RTC SWG(Maintenance + LS response) | Video SWG  (Beyond2D, VOPS) | Audio SWG (Maintenance, LS) |  | MBS SWG (FS\_MediaEnergyGREEN ) | Video SWG (main washup) | Audio SWG (washup) |  | Closing Plenary  Agenda Item 11-22 (closes at 1800 CEST latest) |
| 15:30:00 |  |  |  |  |
| 16:00:00 |  |  |  |  |
| 16:30:00 |  | MBS SWG (FS\_AMD) | Audio SWG (FS\_DaCED) | RTC SWG (5G\_RTP\_Ph2, SR\_IMS) |  | MBS SWG (FS\_AMD) | Video SWG (FS\_AVATAR) | Audio SWG (IVAS\_Codec\_Ph2) |  | MBS SWG (washup) | Video SWG (FS\_ARSpatial, FS\_FGS, washup) | RTC SWG (washup) |  |
| 17:00:00 |  |  |  |  |
| 17:30:00 |  |  |  |  |

**Additional notes from the VIDEO SWG chair:**

* Email agreements are expected to be triggered on every single contribution. A minimum of 24 hours will be allocated to initial contributions.
* For more information on how an e-meeting is conducted please carefully read the meeting guidelines from the SA4 chair available here:

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| [**S4-241460**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241460.zip) | Guidelines for 3GPP SA4#129-e meeting | SA4 Chair |

* Should you have any question, do not hesitate to contact the SA4 leadership, we are here to help.

Annex A – Documents’ status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Tdoc number | Title | Source | SWG Agenda Item | Replaced by | SWG Status | SA4 A.I. for Tdocs presented at SA4 plenary\* |
| [S4-241418](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241418.zip) | Reply LS on clarification on mobile metaverse services | SA WG1 | 9.3 |  |  |  |
| [S4-241423](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241423.zip) | LS to request clarification on mobile metaverse services | SA WG3 | 9.3 |  |  |  |
| [S4-241424](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241424.zip) | Reply LS on request clarification on mobile metaverse services | SA WG6 | 9.3 |  |  |  |
| [S4-241440](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241440.zip) | [FS\_AI4Media] pCR on real-time communication scenarios | China Mobile Com. Corporation,Huawei | 9.6 | S4-241647 | revised |  |
| [S4-241461](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241461.zip) | Liaison statement from SC 29/WG 3 to 3GPP SA 4 on MV- HEVC Integration and codec string [SC 29/WG 3 N 1334] | ISO/IEC JTC 1/SC 29/WG 03 | 9.3 |  |  |  |
| [S4-241462](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241462.zip) | Liaison statement from SC 29/WG 3 to 3GPP SA 4 on Avatar Representation Formats [SC 29/WG 3 N 1337] | ISO/IEC JTC 1/SC 29/WG 03 | 9.3 |  | postponed |  |
| [S4-241463](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241463.zip) | Liaison statement from SC 29/WG 4 to 3GPP SA 4 on Feature coding for machines [SC 29/WG 4 N 529] | ISO/IEC JTC 1/SC 29/WG 04 | 9.3 |  |  |  |
| S4-241478 | [VOPS] Completion of existing Capabilities | Qualcomm Incorporated, Tencent | 9.5 |  | agreed |  |
| S4-241480 | [VOPS] System Operation Points | Qualcomm Germany | 9.5 |  | missing |  |
| [S4-241481](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241481.zip) | [FS\_Beyond2D] Representation Format - Extended Stereoscopic Video | Qualcomm Germany | 9.9 |  |  |  |
| [S4-241482](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241482.zip) | [FS\_FGS] Draft TR 26.8xx | Qualcomm Germany | 9.7 |  |  |  |
| [S4-241483](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241483.zip) | Proposed Updates to Feasibility Study on Film Grain synthesis | Qualcomm Incorporated | 9.7 |  |  |  |
| [S4-241488](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241488.zip) | [FS\_Beyond2D] Available Datasets, tools, softwares for Stereoscopic Video Source Sequences | China Mobile Com. Corporation | 9.9 | S4-241674 | revised |  |
| [S4-241489](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241489.zip) | [FS\_AVATAR] Mesh-based avatar protection | China Mobile Com. Corporation | 9.8 |  |  |  |
| [S4-241491](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241491.zip) | [FS\_Beyond2D] TR 26.956 v0.0.4 | China Mobile Com. Corporation | 9.9 |  | agreed |  |
| [S4-241492](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241492.zip) | [FS\_Beyond2D] Permanent Document v0.0.3 | China Mobile Com. Corporation | 9.9 |  | agreed |  |
| [S4-241493](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241493.zip) | [FS\_Beyond2D] Work Plan V3.0 | China Mobile Com. Corporation | 9.9 |  |  |  |
| [S4-241494](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241494.zip) | [FS\_Beyond2D] Quality examples of the point cloud representation format for streaming single asset scenario | InterDigital Communications | 9.9 |  | agreed |  |
| [S4-241508](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241508.zip) | [FS\_AI4Media] pCR on IMS mapping | HUAWEI TECHNOLOGIES Co. Ltd. | 9.6 |  |  |  |
| [S4-241509](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241509.zip) | [FS\_AVATAR] pCR on IMS mapping | HUAWEI TECHNOLOGIES Co. Ltd. | 9.8 |  |  |  |
| [S4-241515](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241515.zip) | [FS\_AVATAR] OpenXR Tracking Framework for Avatar | Qualcomm France | 9.8 |  |  |  |
| [S4-241516](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241516.zip) | [FS\_AVATAR] User-avatar authentication in AR calls | Qualcomm France | 9.8 | S4-241679 | revised |  |
| [S4-241517](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241517.zip) | [FS\_AVATAR] 3DGS Avatar Representation | China Mobile Com. Corporation | 9.8 |  | agreed |  |
| [S4-241518](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241518.zip) | [FS\_Beyond2D] Representation Format - Neural Radiance Fields (NeRF) | China Mobile Com. Corporation | 9.9 |  |  |  |
| [S4-241519](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241519.zip) | [FS\_Beyond2D] Representation Format - 3D Gaussian Splatting (3DGS) | China Mobile Com. Corporation | 9.9 |  |  |  |
| [S4-241520](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241520.zip) | [FS\_Beyond2D] Quality aspects of stereoscopic video content | China Mobile Com. Corporation | 9.9 |  |  |  |
| [S4-241525](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241525.zip) | [VOPS] Updates on codec string encoding for L-HEVC | Apple Inc. | 9.5 |  |  |  |
| [S4-241526](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241526.zip) | [VOPS] On adding MV-HEVC capabilities for messaging | Apple Inc. | 9.5 | S4-241625 | revised |  |
| [S4-241527](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241527.zip) | [VOPS] Updates for MV-HEVC | Apple Inc., Qualcomm Incorporated | 9.5 |  | endorsed |  |
| S4-241528 | [VOPS] Work Plan | Apple Inc. | 9.5 |  | missing |  |
| [S4-241551](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241551.zip) | [FS\_AI4Media] pCR on conclusions for split operations | InterDigital Finland Oy | 9.6 |  |  |  |
| [S4-241552](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241552.zip) | [FS\_AI4Media] pCR on intermediate data compression editor note | InterDigital Finland Oy | 9.6 |  |  |  |
| [S4-241553](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241553.zip) | [FS\_AI4Media] pCR on update metadata for split operations | InterDigital Finland Oy | 9.6 |  |  |  |
| [S4-241554](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241554.zip) | [FS\_AI4Media] pCR on compression metadata for split operations | InterDigital Finland Oy | 9.6 | S4-241667 | revised |  |
| [S4-241555](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241555.zip) | [FS\_AI4Media] pCR on update on Split AIML procedure | InterDigital Finland Oy | 9.6 |  |  |  |
| [S4-241556](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241556.zip) | [FS\_AI4Media] Evaluation Permanent Document v0.6.1 | Samsung Electronics Nordic AB | 9.6 |  | agreed |  |
| [S4-241557](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241557.zip) | [FS\_AI4Media] On architecture variants for collaboration scenarios | Samsung Electronics Nordic AB | 9.6 |  | agreed |  |
| [S4-241558](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241558.zip) | [FS\_AI4Media] On collaboration scenarios and use cases | Samsung Electronics Nordic AB | 9.6 |  |  |  |
| S4-241563 | [FS\_AI4Media] Proposed Updated Time and Work Plan | Samsung Electronics Nordic AB | 9.6 |  | missing |  |
| [S4-241565](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241565.zip) | [FS\_Avatar]Usage of the term “Digital Asset Container (DAC)” for Avatar Storage | Nokia | 9.8 |  | noted |  |
| [S4-241578](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241578.zip) | [FS\_AI4Media] Mapping to IMS using DC Applications | Qualcomm France | 9.6 |  |  |  |
| [S4-241580](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241580.zip) | [FS\_AI4Media] Real-time Translation Test Scenario | Qualcomm France | 9.6 |  |  |  |
| [S4-241586](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241586.zip) | [FS\_AI4Media] pCR on NNC results for compression of model data for automatic speech recognition | Fraunhofer HHI | 9.6 |  | agreed |  |
| [S4-241590](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241590.zip) | [FS\_AVATAR] pCR on MPEG Avatar Representation Format | InterDigital Canada | 9.8 | S4-241687 | revised |  |
| [S4-241591](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241591.zip) | [FS\_AVATAR] pCR on Reference Architecture Mapping to Non-IMS Services | InterDigital Canada | 9.8 |  |  |  |
| [S4-241593](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241593.zip) | [FS\_AVATAR] On the Message Format and Carriages for Skeletal Information for Animation | QUALCOMM Europe Inc. - Italy | 9.8 |  | noted |  |
| [S4-241596](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241596.zip) | Proposed internal TR for the FS\_FGS study | Tencent | 9.7 |  |  |  |
| [S4-241597](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241597.zip) | Draft TR 26.927 Study on AIML in 5G services v0.8.1 | Tencent (Editor) | 9.6 |  | agreed |  |
| [S4-241601](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241601.zip) | On representation format – Dynamic Point Cloud representation format | InterDigital Communications | 9.9 | S4-241604 | revised |  |
| [S4-241604](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241604.zip) | On representation format – Dynamic Point Cloud representation format | InterDigital Communications | 9.9 |  |  |  |
| [S4-241605](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241605.zip) | [FS\_ARSpatial] Time Plan for the FS\_ARSpatial Study Item v0.0.1 | InterDigital Canada | 9.10 |  |  |  |
| [S4-241607](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241607.zip) | [FS\_ARSpatial] TR 26.819 Skeleton v0.0.1 | InterDigital Canada | 9.10 |  |  |  |
| [S4-241608](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241608.zip) | [FS\_ARSpatial] Spatial Computing Functions | InterDigital Canada | 9.10 |  |  |  |
| [S4-241618](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241618.zip) | Streaming of Beyond 2D Produced VoD Content – Use Case “Volumetric Video with single asset” | InterDigital Communications | 9.9 |  | noted |  |
| [S4-241620](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241620.zip) | On representation format – Dynamic Point Cloud representation format | InterDigital Communications | 9.9 |  |  |  |
| [S4-241625](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241625.zip) | [VOPS] On adding MV-HEVC capabilities for messaging | Apple Inc. | 9.5 |  |  |  |
| **Tdoc number** | **Title** | **Source** | **Agenda item** | **Replaced by** | **SWG status** | **Plenary A.I.** |
| S4-241643 | Draft TR 26.847 v0.3.0 | Samsung Electronics Nordic AB | 9.6 |  |  |  |
| S4-241647 | [FS\_AI4Media] pCR on real-time communication scenarios | China Mobile Com. Corporation, Huawei | 9.6 |  | agreed |  |
| S4-241662 | Draft TR 26.927 Study on AIML in 5G services v0.9.0 | Tencent (Editor) | 9.6 |  |  |  |
| S4-241664 | VIDEO SWG report during SA4#129-e | VIDEO SWG Chair (Tencent) | - |  | - | 12.3 |
| S4-241667 | [FS\_AI4Media] pCR on compression metadata for split operations | InterDigital Finland Oy | 9.6 |  | agreed |  |
| S4-241669 | Draft TS 26.265 v0.3.0 | Qualcomm Germany | 9.5 |  |  |  |
| S4-241674 | [FS\_Beyond2D] Available Datasets, tools, softwares for Stereoscopic Video Source Sequences | China Mobile Com. Corporation | 9.9 |  | agreed |  |
| S4-241679 | [FS\_AVATAR] User-avatar authentication in AR calls | Qualcomm France | 9.8 |  | agreed |  |
| S4-241686 | [FS\_AVATAR] pCR on Reference Architecture Mapping to Non-IMS Services | InterDigital Canada | 9.8 |  |  |  |
| S4-241687 | [FS\_AVATAR] pCR on MPEG Avatar Representation Format | InterDigital Canada | 9.8 |  | agreed |  |

Annex B – Participants list (XX)

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| **NAME** | **LASTNAME** | **COMPANY** |
| Mike | **WAZOWSKI** | **Monsters, Inc.** |
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1. Gilles TENIOU, TENCENT ; teniou@global.tencent.com [↑](#footnote-ref-1)