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

**Title: VIDEO SWG Report during SA4#132**

## Document for: Approval

## Agenda Item: 12.3

*The VIDEO SWG has the responsibility for general 3GPP SA4 video matters.*

VIDEO SWG output documents

|  |  |  |
| --- | --- | --- |
| A.I.# | Agenda Item | Tdoc # |
| 5 | Reports/Liaisons from other groups/meetings |  |
| 5.2 | Other 3GPP groups | Spatial: 771 (SA6) -> noted Video SWG |
| 5.3 | Other groups | NGVC: 763 (ISO/IEC JTC 1/SC 29/WG 2) -> replied in 1045 in Video SWG |
| 12 | Reports and general issues from sub-working-groups |  |
| 12.3 | Video SWG | 1153 |
| 13 | Release 18 and earlier matters |  |
| 14 | Release 19 Features | FS\_AVATAR: 816 |
| 14.4 | VOPS (Video Operating Points - Harmonization and Stereo MV-HEVC) | WID: 80126.265: 1137TP: 1143PD: 1144 |
| 15 | Study Items |  |
| 15.3 | FS\_AI4Media (Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media) | LS: 105126.927: 108926.847: 1126 |
| 15.4 | FS\_Beyond2D (Study on Beyond 2D Video) | 26.956: 1053TP: 1052PD: 1046 |
| 15.5 | FS\_ARSpatial (Study on Spatial Computing for AR Services) | 26.819: 1071, 1139TP: 1159  |

Documents marked in **green** were agreed at the VIDEO SWG level.

Documents marked **rfic** are Requested For Immediate Consideration

Special thanks to:

* The VIDEO SWG delegates for their outstanding work achieved during this meeting.
* Thomas Stockhammer (Qualcomm) , Julien Lemotheux (Orange), Eric Yip (Samsung) and Waqar Zia (Apple) for the detailed minutes.

Video SWG Minutes SA4#132

## 9.1 Opening of the session, registration of documents

### 9.1.1 Opening of the session

Mr. Gilles Teniou (Tencent, Chairman of Video SWG) opens the Video SWG on May 19, 2025 at 14:15 local time.

Eric Yip (Samsung), Julien Lemotheux (Orange) and Waqar Zia (Apple) are assigned as scribes.

The minutes are shared [Video SWG Minutes SA4#132](https://docs.google.com/document/d/1D7L6_j5OhXxjK9MjhyaDfgM3DDzmAc4Lq08Eo_hJtdI/edit?usp=sharing)

Attendees are listed [here](https://docs.google.com/document/d/1PCkpJBR_oPuflJ-oIlmmEfJGjkA_-JU84-y_jlGI0-E/edit#bookmark=id.dpilyxvwa2oq).

All e-mail discussions during the meeting can be tracked here:

* <https://list.etsi.org/scripts/wa.exe?A1=ind2504B&L=3GPP_TSG_SA_WG4_VIDEO>
* <https://list.etsi.org/scripts/wa.exe?A1=ind2504C&L=3GPP_TSG_SA_WG4_VIDEO>

SA4 Schedule: [S4-251016](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251016.zip)



The agenda and the registration of documents are approved.

### 9.1.2 Registration of documents

|  |  |  |  |
| --- | --- | --- | --- |
| TDoc | Title | Source | Agenda item |
| [S4-250775](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250775.zip) | Suggested Technical and Editorial changes to 26.265 | HUAWEI TECH. GmbH | 9.5 |
| [S4-250797](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250797.zip) | [VOPS] Updated Terminology | Qualcomm Sweden, Tencent | 9.5 |
| [S4-250798](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250798.zip) | [VOPS] AVC Operation Points | Qualcomm Sweden, Tencent | 9.5 |
| [S4-250799](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250799.zip) | [VOPS] Updates to HEVC Operation Points | Qualcomm Sweden, Tencent | 9.5 |
| [S4-250800](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250800.zip) | [VOPS] Proposed Way Forward on Conformance | Qualcomm Germany, Tencent, Apple, Xiaomi | 9.5 |
| [S4-250801](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250801.zip) | [VOPS] Updated Work Item to address Conformance | Qualcomm Sweden, Tencent, Apple, Xiaomi | 9.5 |
| [S4-250806](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250806.zip) | LS to SC29 WG1 on JPEG AI Standard and TR 26.927 | Huawei, Hisilicon | 9.6 |
| [S4-250810](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250810.zip) | Reply LS on extended market and practical considerations for Next Generation Video Coding | Orange Belgium | 9.3 |
| [S4-250816](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250816.zip) | Editorial corrections and increasing readability of text in Figures | Nokia | 9.9 |
| [S4-250825](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250825.zip) | [FS\_Beyond2D] Evaluation of multi-view plus depth | Philips International B.V. | 9.7 |
| [S4-250829](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250829.zip) | [VOPS] HEVC+Alpha operating point | Apple Inc. | 9.5 |
| [S4-250830](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250830.zip) | [VOPS] Terminology and usage | Apple Inc., Tencent | 9.5 |
| [S4-250831](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250831.zip) | [VOPS] On Conformance bitstreams | Apple Inc. | 9.5 |
| [S4-250832](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250832.zip) | [VOPS] Removal of duplicated constraints | Apple Inc. | 9.5 |
| [S4-250833](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250833.zip) | [VOPS] On Multiview profiles | Apple Inc. | 9.5 |
| S4-250834 | [VOPS] On video coding capabilities and operating points | Apple Inc. | 9.5 |
| [S4-250835](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250835.zip) | [VOPS] On video coding capabilities and operating points | Apple Inc. | 9.5 |
| S4-250836 | [VOPS] On video coding capabilities and operating points | Apple Inc. | 9.5 |
| [S4-250837](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250837.zip) | [VOPS] Updates for MV-HEVC | Apple Inc., Qualcomm Incorporated, Tencent | 9.5 |
| [S4-250838](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250838.zip) | [VOPS] Work Plan | Apple Inc. | 9.5 |
| [S4-250839](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250839.zip) | Update on HEIF and JVET Support for Enhanced Colour Format Signalling | Apple Inc. | 9.1 |
| [S4-250855](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250855.zip) | Draft TR 26.927 v1.1.1 | Tencent (Editor) | 9.6 |
| [S4-250859](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250859.zip) | [FS\_ARSpatial] pCR on Semantic perception | Tencent | 9.8 |
| [S4-250860](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250860.zip) | [FS\_ARSpatial] pCR on Call flow for spatial computing | Tencent | 9.8 |
| [S4-250861](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250861.zip) | [VOPS] pCR on terminology for adressing the concept of video layer | Beijing Xiaomi Mobile Software | 9.5 |
| [S4-250865](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250865.zip) | Draft TR 26.847 v1.1.1 | Samsung Guangzhou Mobile R&D (Editor) | 9.6 |
| [S4-250880](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250880.zip) | [FS\_Beyond2D] Scenario 1: Detailed Test Condition | China Mobile Com. Corporation | 9.7 |
| [S4-250882](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250882.zip) | [FS\_Beyond2D] Scenario1: External Performance data and Additional Information | China Mobile Com. Corporation | 9.7 |
| [S4-250883](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250883.zip) | [FS\_Beyond2D] Introduction of AI Generated Beyond 2D Content | China Mobile Com. Corporation | 9.7 |
| [S4-250885](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250885.zip) | [FS\_Beyond2D] AI-Generated Dynamic Mesh | China Mobile Com. Corporation | 9.7 |
| [S4-250888](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250888.zip) | [FS\_Beyond2D] Editorial Updates on Draft TR 26.956 v0.4.0 | China Mobile Com. Corporation | 9.7 |
| [S4-250890](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250890.zip) | [FS\_Beyond2D] Cover Sheet | China Mobile Com. Corporation | 9.7 |
| [S4-250897](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250897.zip) | [FS\_AI4Media] CR on real-time Translation Scenario | Qualcomm Atheros, Inc. | 9.6 |
| [S4-250899](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250899.zip) | [FS\_ARSpatial] Evaluation of 3D Reconstruction | Qualcomm Atheros, Inc. | 9.8 |
| [S4-250900](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250900.zip) | [FS\_ARSpatial] Is VSP really a split inference scenario? | Qualcomm Atheros, Inc. | 9.8 |
| [S4-250922](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250922.zip) | [FS\_AI4Media] Suggested update to the conclusions  | HUAWEI TECH. GmbH | 9.6 |
| [S4-250938](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250938.zip) | pCR on using constant bitrate for evaluation of scenario 2 | InterDigital Pennsylvania | 9.7 |
| [S4-250939](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250939.zip) | Pseudo-CR on annex for data management and hosting | InterDigital Pennsylvania | 9.7 |
| [S4-250940](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250940.zip) | [VOPS] pCR On multi-component video signals | Beijing Xiaomi Mobile Software | 9.5 |
| [S4-250942](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250942.zip) | Pseudo-CR on annex for software packages | InterDigital Pennsylvania | 9.7 |
| [S4-250964](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250964.zip) | [FS\_ARSpatial]Clarification on RTC-6 interface in Spatial Computing architecture | Nokia | 9.8 |
| [S4-250965](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250965.zip) | [FS\_ARSpatial]Regarding Editor’s note clause 7.3 | Nokia | 9.8 |
| [S4-250972](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250972.zip) | [FS\_AI4Media] pCR on edits to TR 26.927 | InterDigital Finland Oy | 9.6 |
| [S4-250973](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250973.zip) | [FS\_AI4Media] pCR on definitions to TR 26.927  | InterDigital Finland Oy | 9.6 |
| [S4-250974](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250974.zip) | [FS\_AI4Media] pCR on conclusions | InterDigital Finland Oy | 9.6 |
| [S4-250978](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250978.zip) | [FS\_ARSpatial] pCR on Remote Processing of Spatial Computing Functions | InterDigital Canada, Orange | 9.8 |
| [S4-250981](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250981.zip) | [FS\_ARSpatial] Proposed Updated Time and Work Plan v0.4.1 | InterDigital Canada (Rapporteur) | 9.8 |
| [S4-250984](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250984.zip) | [FS\_ARSpatial] pCR on XR Conference Use Case | InterDigital Canada | 9.8 |
| [S4-250985](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250985.zip) | [FS\_ARSpatial] pCR on IMS Mapping | InterDigital Canada | 9.8 |
| [S4-250986](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250986.zip) | [FS\_ARSpatial] pCR on Editorial Improvements | InterDigital Canada | 9.8 |
| [S4-251015](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251015.zip) | [VOPS] Thoughts on sample bitstream platform (conformance) | Xiaomi Technology (Polska) sp. | 9.5 |
| [S4-251044](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251044.zip) | Draft TR 26.847 v1.2.0 | Samsung Guangzhou Mobile R&D (Editor) | 9.6 |
| [S4-251045](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251045.zip) | Reply LS on extended market and practical considerations for Next Generation Video Coding | Orange Belgium | 9.3 |
| [S4-251046](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251046.zip) | [FS\_Beyond2D] Permanent Document v0.0.9 | China Mobile Com. Corporation | 9.7 |
| [S4-251048](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251048.zip) | [FS\_Beyond2D] Scenario 1: Detailed Test Condition | China Mobile Com. Corporation | 9.7 |
| [S4-251049](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251049.zip) | [FS\_Beyond2D] Scenario1: External Performance data and Additional Information | China Mobile Com. Corporation | 9.7 |
| [S4-251050](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251050.zip) | [FS\_AI4Media] Suggested update to the conclusions  | HUAWEI TECH. GmbH | 9.6 |
| [S4-251051](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251051.zip) | LS to SC29 WG1 on JPEG AI Standard and TR 26.927 | Huawei, Hisilicon | 9.6 |
| [S4-251052](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251052.zip) | [FS\_Beyond2D] Workplan V1.0 | China Mobile Com. Corporation | 9.7 |
| S4-251053 | [FS\_Beyond2D] TR 26.956 V0.5.0 | China Mobile Com. Corporation | 9.7 |
| [S4-251055](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251055.zip) | pCR on using constant bitrate for evaluation of scenario 2 | InterDigital Pennsylvania | 9.7 |
| [S4-251056](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251056.zip) | Pseudo-CR on annex for software packages | InterDigital Pennsylvania | 9.7 |
| S4-251070 | [FS\_ARSpatial] pCR on Semantic perception | Tencent | 9.8 |
| S4-251071 | [FS\_ARSpatial] pCR on Call flow for spatial computing | Tencent | 9.8 |
| S4-251089 | Draft TR 26.927 v1.2.0 | Tencent (Editor) | 9.6 |
| [S4-251126](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251126.zip) | Draft TR 26.847 v1.3.0 | Samsung Guangzhou Mobile R&D (Editor) | 9.6 |
| [S4-251128](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251128.zip) | [FS\_AI4Media] pCR on conclusions | InterDigital Finland Oy | 9.6 |
| [S4-251130](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251130.zip) | [FS\_AI4Media] pCR on definitions to TR 26.927  | InterDigital Finland Oy | 9.6 |
| [S4-251131](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251131.zip) | [FS\_Beyond2D] AI-Generated Beyond 2D | China Mobile Com. Corporation,Tencent | 9.7 |
| S4-251136 | [VOPS] Merged Update to TS 26.265 | Qualcomm Sweden, Apple, Xiaomi, Huawei, Samsung, Tencent | 9.5 |
| S4-251137 | TS 26.265 v1.2.0 | Qualcomm Sweden | 9.5 |
| S4-251139 | Draft TR 26.819 v0.5.0 | InterDigital Canada | 9.8 |
| S4-251144 | VOPS Permanent Document for conformance work v0.1.0 | Xiaomi Technology (Polska) sp. | 9.5 |
| [S4-251150](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251150.zip) | [FS\_Beyond2D] Cover Sheet | China Mobile Com. Corporation | 9.7 |
| S4-251157 | [FS\_ARSpatial] pCR on Remote Processing of Spatial Computing Functions | InterDigital Canada, Orange | 9.8 |
| S4-251158 | [FS\_ARSpatial] pCR on IMS Mapping | InterDigital Canada | 9.8 |
| S4-251159 | [FS\_ARSpatial] Updated Time and Work Plan v0.5.0 | InterDigital Canada (Rapporteur) | 9.8 |

## 9.2 IPR and antitrust reminder

The chairman read the antitrust and IPR clause.

*"The attention of the delegates to the meeting of this SWG was drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.*

*The delegates were asked to take note that they were thereby invited:*

*to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.*

*to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms "*

*"The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chair and Vice-Chairs and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP. Delegates were reminded that timely submission of work items in advance of TSG/WG/SWG meetings was important to allow for full and fair consideration of such matters."*

## 9.3 Reports/Liaisons from other groups/meetings

|  |  |
| --- | --- |
| TDoc | [S4-250810](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250810.zip) |
| Title | Reply LS on extended market and practical considerations for Next Generation Video Coding |
| Source | Orange Belgium |
| Contact | Julien Lemotheux |
| Agenda Item | 9.3 |
| E-mail Discussion | [Rufael Mekuria on Tue, 20 May 2025 05:23:10 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;160e9d07.2505c)[Julien Lemotheux on Tue, 20 May 2025 06:59:38 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9e4ed323.2505c)[Rufael Mekuria on Tue, 20 May 2025 07:29:30 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c6371681.2505c)[Thomas Stockhammer on Tue, 20 May 2025 07:34:57 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;cf38d3a6.2505c)[Rufael Mekuria on Tue, 20 May 2025 07:50:13 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;4a0af310.2505c)[Thomas Stockhammer on Tue, 20 May 2025 23:46:25 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;93513bea.2505c) |
| Revisions | [S4-250810\_huawei.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250810_huawei.docx) |
| Minutes | 5/21Julien presents:* Rufail: conclusion was removed since not sure how relevant it was
* Gilles: it might be good to include context that the work was from 3 years ago
* Emmanuel: would still be good to have some text related to the paragraph to give some context
* Rajan: reference to 955 isn't very strong. If there are things done since then we could include it also.
* Other comments on edits/VOPs
* Thomas: can we add something on 6G?
* Online edits made and in the drafts folder
* Revised
 |
| Disposition | Revised to 10451045 is agreed and goes to plenary. |
| Status | **revised to S4-251045** |

## 9.4 CRs to completed features in Release 18 and earlier

No documents

## 9.5 VOPS (Video Operating Points - Harmonization and Stereo MV-HEVC)

*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’*

|  |  |
| --- | --- |
| TDoc | [S4-250775](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250775.zip) |
| Title | Suggested Technical and Editorial changes to 26.265 |
| Source | HUAWEI TECH. GmbH |
| Contact | Rufail Mekuria |
| Agenda Item | 9.5 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | [S4-250775\_QCOM.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250775_QCOM.docx) |
| Minutes | 5/19Rufail presents.* Thomas: last statement in 4.3 seems inappropriate, what does low delay / shall be possible mean
* Parked
 |
| Disposition | Merged in S4-251136. |
| Status | merged |

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| TDoc | [S4-250797](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250797.zip) |
| Title | [VOPS] Updated Terminology |
| Source | Qualcomm Sweden, Tencent |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.5 |
| E-mail Discussion | [Emmanuel Thomas on Tue, 20 May 2025 08:15:23 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;83b570c4.2505c)[Waqar Zia on Tue, 20 May 2025 18:25:47 +0900](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6852c6bb.2505c) |
| Revisions | No revisions available. |
| Minutes | 5/19Thomas presents.* Alexis: base layer is a sub bitstream, enhancement layer is also a sub bistream. Terminology is not define correctly
* Rajan: Thomas seems to be referring to layer
* Thomas: is the figure correct?
	+ Alexis: sub-bitstream could also be a base sub-bitstream
* Parked

5/20 offline implemented in aggregated version.5/22r02 version presented by Thomas.* Thomas: I created a new document merging most remaining documents.
 |
| Disposition | Merged in S4-251136. |
| Status | merged |

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| TDoc | [S4-250798](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250798.zip) |
| Title | [VOPS] AVC Operation Points |
| Source | Qualcomm Sweden, Tencent |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 5/19Thomas presents.* Alexis: some devices couldn’t support some of the motion vectors for high resolutions. Need to check the spec.
* Parked

5/20 offline implemented in aggregated version. |
| Disposition | Merged in S4-251136. |
| Status | merged |

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| TDoc | [S4-250799](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250799.zip) |
| Title | [VOPS] Updates to HEVC Operation Points |
| Source | Qualcomm Sweden, Tencent |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 5/19Thomas presents.* Waqar: there are some overlaps with other contribution
* To be discussed in offline session

5/20 offline implemented in aggregated version. |
| Disposition | Merged in S4-251136. |
| Status | merged |

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| TDoc | [S4-250800](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250800.zip) |
| Title | [VOPS] Proposed Way Forward on Conformance |
| Source | Qualcomm Germany, Tencent, Apple, Xiaomi |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 25/05/19Thomas presents* Gilles:is there an agreement to extend the WI to include the conformance?
	+ Seems so
 |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-250801](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250801.zip) |
| Title | [VOPS] Updated Work Item to address Conformance |
| Source | Qualcomm Sweden, Tencent, Apple, Xiaomi |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 25/05/19Thomas presents |
| Disposition | Agreed, goes to plenary |
| Status | agreed |

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| TDoc | [S4-250829](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250829.zip) |
| Title | [VOPS] HEVC+Alpha operating point |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 5/19Waqar presents.* Thomas: We need to check this internally. Alpha was not part of the objectives, should be in square brackets. Even if you don’t define the renderer implementation you shouldn’t ignore it. What is the use case?
* Thomas: there’s very little on the representation format or use case
* Emmanuel: do we expect a bitstream or test content for this?
* Put it in square brackets
* Parked

5/22* Thomas: It would be good to work on this in a next telco.
	+ Waqar: I get the message, there is interest from the group, we can improve it.
	+ Emmanuel: It is more confusing than it helps at this point.
 |
| Disposition | Noted. We should expect further discussions in a next meeting. |
| Status | noted |

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| TDoc | [S4-250830](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250830.zip) |
| Title | [VOPS] Terminology and usage |
| Source | Apple Inc., Tencent |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | [Emmanuel Thomas on Tue, 20 May 2025 08:15:23 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;83b570c4.2505c)[Waqar Zia on Tue, 20 May 2025 18:25:47 +0900](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6852c6bb.2505c) |
| Revisions | No revisions available. |
| Minutes | 5/19Waqar presents.* Thomas: capabilities should not be outside of the ones defined by HEVC today. New capabilities are a concern
* Alexis: capabilities of base layers containing multiple sub layers need to be more clearly defined
* Parked

5/20 offline implemented in aggregated version. |
| Disposition | Merged in S4-251136. |
| Status | merged |

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| TDoc | [S4-250831](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250831.zip) |
| Title | [VOPS] On Conformance bitstreams |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 25/05/19* Waqar presents.
* Thomas: Are the compressed bitstreams different content? Yes. Maybe consider a permanent document to document what we want.
* Rajan: how is 2.2.2 helpful? It is just for reference.
* Thomas: we should have conformance streams for all our options.
	+ Gilles: we should also consider the intent of the options
	+ Thomas: let’s just document what we did
	+ Alexis: some content might be difficult to get
* Gilles: are HEVC bitstreams fixed QP?
	+ Alexis: yes
 |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-250832](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250832.zip) |
| Title | [VOPS] Removal of duplicated constraints |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 5/19Waqar presents.* Thomas: not sure if these are exactly duplicated bitstreams. Decoding capability vs bitstream constraints
* Remove from decoding capabilities and reference to operating points
* Parked
 |
| Disposition | Merged in S4-251136. |
| Status | merged |

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| TDoc | [S4-250833](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250833.zip) |
| Title | [VOPS] On Multiview profiles |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 5/19Waqar presents.* Rajan: is multiview extended 10 a superset of multiview 10? As long as the “or” is clarified it should be ok.
* Alexis: can we add a note?
* Thomas: be careful about adding too many options here. We should be forwarding looking as well.
* Rajan: if we have one more layer, it matters now if we have main 10 or extended 10. We don’t want to mandate devices to either decode alpha or monochrome if there are 3 layers, depending on whether the layers are main 10 or extended 10.
* The issue is that layer profiles are affecting/restricting what other layers can be (4:0:0 or 4:2:0).
* Thomas: do we have to define this forwarding looking profiles here?
* Thomas: is this capability with this tag, can we just the same tag with different capabilities in Rel-20?
* Alexis: point is whether we define only 2 layers or more.
* Add 2 layers, add 4:2:0. We need to look at this from the decoding perspective
* Add note that the layers can be dependent or independent.
* Online edited version parked

5/20 offline implemented in aggregated version. |
| Disposition | Merged in S4-251136. |
| Status | merged |

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| TDoc | S4-250834 |
| Title | [VOPS] On video coding capabilities and operating points |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | withdrawn |

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| TDoc | [S4-250835](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250835.zip) |
| Title | [VOPS] On video coding capabilities and operating points |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 5/19Waqar presents* Thomas: to clarify: this CR is not attempting to bring MV-HEVC profile.
	+ Yes. there is a problem with file format
 |
| Disposition | Endorsed |
| Status | endorsed |

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| TDoc | S4-250836 |
| Title | [VOPS] On video coding capabilities and operating points |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | withdrawn |

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| TDoc | [S4-250837](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250837.zip) |
| Title | [VOPS] Updates for MV-HEVC |
| Source | Apple Inc., Qualcomm Incorporated, Tencent |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 5/19Waqar presents.* Rufael: can we check the text on terminology etc to use the correct terms (e.g. sample entry)
 |
| Disposition | Endorsed |
| Status | endorsed |

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| TDoc | [S4-250838](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250838.zip) |
| Title | [VOPS] Work Plan |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 22/05/25Presented by Waqar.Adhoc calls scheduled June 17th and July 8th. |
| Disposition | Revised to S4-251143 including adhocs on June 17th and July 8th. The revision will be agreed and goes to the plenary. |
| Status | **revised to S4-251143** |

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| TDoc | [S4-250861](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250861.zip) |
| Title | [VOPS] pCR on terminology for adressing the concept of video layer |
| Source | Beijing Xiaomi Mobile Software |
| Contact | Emmanuel Thomas |
| Agenda Item | 9.5 |
| E-mail Discussion | [Emmanuel Thomas on Tue, 20 May 2025 08:15:23 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;83b570c4.2505c)[Waqar Zia on Tue, 20 May 2025 18:25:47 +0900](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6852c6bb.2505c) |
| Revisions | No revisions available. |
| Minutes | 5/19Emmanuel presents.* Alexis: some terminologies are not correct.
* Rajan: a set of sub-bitstreams may not work
* Parked

5/20 offline implemented in aggregated version. |
| Disposition | Merged in S4-251136 except the system part which will have to be resubmitted. |
| Status | merged |

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| TDoc | [S4-250940](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250940.zip) |
| Title | [VOPS] pCR On multi-component video signals |
| Source | Beijing Xiaomi Mobile Software |
| Contact | Emmanuel Thomas |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 5/19Emmanuel presents* Waqar: some editorial edits needed
* Alexis: for the compliance, make sure the term component is used correctly
	+ Ahmed: if you have the term defined at the beginning clearly it should be fine
	+ Emmanuel to send the online edits to Thomas
* Thomas: why is delivery mentioned here? Maybe there are more options
	+ Emmanuel: this is already described in the table
	+ Rajan: packaged?
	+ Is this the interface before the encoded video or after?
* Let’s separate delivery and how the videos are encoded.
* Remove “delivered”
* Alexis: what do we mean by encoded?
	+ It should be the video signal before and after encoding.
	+ But encoder can change the signal
	+ This should be about the signal into the decoder
* Online edited version agreed

5/20 offline implemented in aggregated version. |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251015](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251015.zip) |
| Title | [VOPS] Thoughts on sample bitstream platform (conformance) |
| Source | Xiaomi Technology (Polska) sp. |
| Contact | Emmanuel Thomas |
| Agenda Item | 9.5 |
| E-mail Discussion | [Emmanuel Thomas on Thu, 22 May 2025 02:32:49 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;32d9220d.2505d)[Emmanuel Thomas on Thu, 22 May 2025 02:38:42 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8730868d.2505d) |
| Revisions | No revisions available. |
| Minutes | 25/05/19Emmanuel presents:* Thomas: we shouldn’t get over ambitious.
* Alexis: 3GPP shouldn’t just be repeating JVET video tests, include file format, other media types
	+ Thomas: we already do this by external referencing, part of the spec
* Waqar: this is separate from the requirements? Yes, just a database list and a place to host them
* Waqar: we could liaise with other groups for help
	+ Gilles: could once the work is done
* Gilles: note this but discuss how to include text from this contribution into the permanent document.

25/05/22Revision presented by Emmanuel.* Thomas: The 2 approaches are not mutually exclusive, they could also be harmonized.
* Emmanuel: This would go to the new PD on which I would be editor.
 |
| Disposition | Noted. A PD will be created with the content from the revision. The PD will go to the plenary. |
| Status | noted |

## 9.6 FS\_AI4Media (Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media)

*WID:* [*SP-220328*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220328.zip) *New SID on Artificial Intelligence (AI) and Machine Learning (ML) for Media*

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| TDoc | [S4-250806](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250806.zip) |
| Title | LS to SC29 WG1 on JPEG AI Standard and TR 26.927 |
| Source | Huawei, Hisilicon |
| Contact | Rufail Mekuria |
| Agenda Item | 9.6 |
| E-mail Discussion | [Rufael Mekuria on Mon, 19 May 2025 07:13:11 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;43120b9c.2505c) |
| Revisions | No revisions available. |
| Minutes | Rufael presentedEric: “to kindly ask” has a typo (extra “to” to be removed), text on under development TR to be updated. Also SA4 to be kept updated.21/05/25r1 version presented by Rufael.No comments.  |
| Disposition | Rufael provides a revision. The revision in S4-251051 is agreed. |
| Status | **revised to S4-251051** |

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| TDoc | [S4-250855](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250855.zip) |
| Title | Draft TR 26.927 v1.1.1 |
| Source | Tencent (Editor) |
| Contact | Gilles Teniou |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | Gilles presentedStephane: there is another version, to be discussed later in a separate document. |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-250865](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250865.zip) |
| Title | Draft TR 26.847 v1.1.1 |
| Source | Samsung Guangzhou Mobile R&D (Editor) |
| Contact | Eric Yip |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | Eric presented.Editorials, ENs removed, further changes presented.No further comments. Agreed |
| Disposition | Revised to S4-251044. |
| Status | **revised to S4-251044** |

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| TDoc | [S4-250897](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250897.zip) |
| Title | [FS\_AI4Media] CR on real-time Translation Scenario |
| Source | Qualcomm Atheros, Inc. |
| Contact | Imed Bouazizi |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | Imed presentedGazi, Stephane: Was cross checking done?Imed: These have been provided for a few cycles. There is time pressure now.Chair: Study to be closed at end of meetingDecision: A note to be added that some results are not crosschecked (editorial) |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-250922](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250922.zip) |
| Title | [FS\_AI4Media] Suggested update to the conclusions  |
| Source | HUAWEI TECH. GmbH |
| Contact | Rufail Mekuria |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | Rufael presentedEric is supportiveGazi: there is no 1-1 mapping with architecture, so do not delete the text.21/05/25r1 version presented by Rufael.No comments |
| Disposition | r1 version agreed. Revised to S4-251050. |
| Status | **revised to S4-251050** |

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| TDoc | [S4-250972](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250972.zip) |
| Title | [FS\_AI4Media] pCR on edits to TR 26.927 |
| Source | InterDigital Finland Oy |
| Contact | Stephane Onno |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | Stephane presentedGilles: all edits are already implemented |
| Disposition |  |
| Status | noted |

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| TDoc | [S4-250973](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250973.zip) |
| Title | [FS\_AI4Media] pCR on definitions to TR 26.927  |
| Source | InterDigital Finland Oy |
| Contact | Stephane Onno |
| Agenda Item | 9.6 |
| E-mail Discussion | [Serhan Guel (Nokia) on Sun, 18 May 2025 13:37:45 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f72084a6.2505c)[Stephane Onno on Mon, 19 May 2025 01:24:03 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8d6ba16b.2505c)[Stephane Onno on Mon, 19 May 2025 07:31:55 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;80928b47.2505c)[Stephane Onno on Wed, 21 May 2025 06:10:46 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;50eb3152.2505c)[Serhan Guel (Nokia) on Wed, 21 May 2025 06:41:52 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;cdbe42e4.2505c) |
| Revisions | [S4-250973\_NOK.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250973_NOK.docx)[S4-250973\_Rev1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250973_Rev1.docx) |
| Minutes | Stephane presentedImed’s comments are available in a draftImed: subset and submodel are not the same5/21Stephane presents rev1* Gazi: we need more time

5/22Stephane presents* Gilles: We have the exact same definition for model subset and sub-model.
	+ Stephane: Yes, for consistency we will use only one in the future.
* Gilles: Is AI/ML model already specified in another specification?
	+ Stephane: To be checked. To be honest it should be trained model.
 |
| Disposition | Revised to S4-251130. The revision will be agreed without presentation. |
| Status | **revised to S4-251130** |

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| TDoc | [S4-250974](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250974.zip) |
| Title | [FS\_AI4Media] pCR on conclusions |
| Source | InterDigital Finland Oy |
| Contact | Stephane Onno |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | Stephane presentedImed, Eric: not clear on first changeShane: clarification on collaboration with SA2, LS should be sent to SA2Online text proposed: “As identified in clause 6.6.”22/05/25Rev1 version presented by Stephane. |
| Disposition | Rev1 agreed. Revised to S4-251128. |
| Status | **revised to S4-251128** |

## 9.7 FS\_Beyond2D (Study on Beyond 2D Video)

*WID:* [*SP-240479*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_103_Maastricht_2024-03/Docs/SP-240479.zip) *New SID on Feasibility Study on Beyond 2D Video*

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| TDoc | [S4-250825](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250825.zip) |
| Title | [FS\_Beyond2D] Evaluation of multi-view plus depth |
| Source | Philips International B.V. |
| Contact | Bart Kroon |
| Agenda Item | 9.7 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Bart.* Alexis: The title is misleading because this is about MIV.
	+ Bart: We can add others later. Maybe a Note can be added.
* Bart: After adding this to the PD, the next steps would be to add this to the TR with a pCR.
 |
| Disposition | Agree to add this in the Permanent Document. |
| Status | agreed |

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| TDoc | [S4-250880](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250880.zip) |
| Title | [FS\_Beyond2D] Scenario 1: Detailed Test Condition |
| Source | China Mobile Com. Corporation |
| Contact | Jiayi Xu |
| Agenda Item | 9.7 |
| E-mail Discussion | [Serhan Guel (Nokia) on Sun, 18 May 2025 15:35:48 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;83ddc5d9.2505c)[Xu Jiayi on Mon, 19 May 2025 11:53:18 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6d1c95f3.2505c)[Xu Jiayi on Mon, 19 May 2025 16:30:27 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;96dfb8c0.2505c)[Serhan Guel (Nokia) on Tue, 20 May 2025 00:54:37 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6572b17b.2505c)[Xu Jiayi on Tue, 20 May 2025 09:00:10 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;afabd6e7.2505c)[Serhan Guel (Nokia) on Tue, 20 May 2025 01:15:26 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;de0d462b.2505c)[Kroon, Bart on Tue, 20 May 2025 02:19:32 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;626f38be.2505c)[Xu Jiayi on Wed, 21 May 2025 09:01:39 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;760fa9ab.2505c) |
| Revisions | [S4-250880\_NOK.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250880_NOK.docx)[S4-250880\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250880_r1.docx) |
| Minutes | 20/05/25r1\_philips version presented by Jiayi.* Bart: Things on FFMPEG would have to be removed?
	+ Jiayi: Yes.
* Serhan: There is also a comment about fixed QP? Is it used?
	+ Jiayi: Yes.
	+ Bart: Is it providing what is possible or what is configured?
	+ Jiayi: What is possible.
	+ Serhan: In this case what are your test configurations?
	+ Gilles: In the name of the table, “Configuration” should be replaced by “Constraints”.

21/05/25r2 version presented by Jiayi. * Bart: Ranges should be removed from the table as it is already in test condition.
 |
| Disposition | r2 agreed with ranges removed from the table. Revised to S4-251048. The revision will be agreed without presentation. |
| Status | **revised to S4-251048** |

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| TDoc | [S4-250882](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250882.zip) |
| Title | [FS\_Beyond2D] Scenario1: External Performance data and Additional Information |
| Source | China Mobile Com. Corporation |
| Contact | Jiayi Xu |
| Agenda Item | 9.7 |
| E-mail Discussion | [Kroon, Bart on Tue, 20 May 2025 02:34:02 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2768a540.2505c)[Xu Jiayi on Tue, 20 May 2025 12:58:14 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;708e6ffd.2505c)[Xu Jiayi on Wed, 21 May 2025 09:00:58 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ef586ff6.2505c) |
| Revisions | [S4-250882-r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250882-r1.docx) |
| Minutes | 20/05/25r1 version presented by Jiayi.* Gilles: Trademarks will be required everywhere applicable.

21/05/25r2 version presented by Jiayi with additional text. |
| Disposition | r1 version agreed then replaced by r2 with additional text which has been agreed. Revised to S4-251049. |
| Status | **revised to S4-251049** |

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| TDoc | [S4-250883](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250883.zip) |
| Title | [FS\_Beyond2D] Introduction of AI Generated Beyond 2D Content |
| Source | China Mobile Com. Corporation |
| Contact | Jiayi Xu |
| Agenda Item | 9.7 |
| E-mail Discussion | [Serhan Guel (Nokia) on Sun, 18 May 2025 15:35:48 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;83ddc5d9.2505c)[Xu Jiayi on Mon, 19 May 2025 11:53:18 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6d1c95f3.2505c)[Ralf Schaefer on Mon, 19 May 2025 07:30:46 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;27716efb.2505c)[Xu Jiayi on Mon, 19 May 2025 16:30:27 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;96dfb8c0.2505c)[Xu Jiayi on Mon, 19 May 2025 17:43:24 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7e082b78.2505c)[Serhan Guel (Nokia) on Tue, 20 May 2025 00:54:37 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6572b17b.2505c)[Xu Jiayi on Tue, 20 May 2025 09:00:10 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;afabd6e7.2505c)[Serhan Guel (Nokia) on Tue, 20 May 2025 01:15:26 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;de0d462b.2505c) |
| Revisions | [S4-250883\_NOK.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250883_NOK.docx)[S4-250883\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250883_r1.docx) |
| Minutes | 20/05/25r1\_philips version presented by Jiayi.* Bart: This is probably more a production tool. I don’t see any transmission. Can you be clearer on the purpose of this text.
	+ Jiayi: OK.
* Gaelle: What is the point adding this to this TR?
	+ Jiayi: This can impact the workflow and hwo the content is evaluated.
* Thomas: The “should” is confusing.
 |
| Disposition | Merged with the revised version of 885. |
| Status | merged |

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| TDoc | [S4-250885](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250885.zip) |
| Title | [FS\_Beyond2D] AI-Generated Dynamic Mesh |
| Source | China Mobile Com. Corporation |
| Contact | Jiayi Xu |
| Agenda Item | 9.7 |
| E-mail Discussion | [Serhan Guel (Nokia) on Sun, 18 May 2025 15:35:48 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;83ddc5d9.2505c)[Xu Jiayi on Mon, 19 May 2025 11:53:18 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6d1c95f3.2505c)[Ralf Schaefer on Mon, 19 May 2025 07:30:46 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;27716efb.2505c)[Xu Jiayi on Mon, 19 May 2025 16:30:27 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;96dfb8c0.2505c)[Xu Jiayi on Mon, 19 May 2025 17:43:24 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7e082b78.2505c)[Serhan Guel (Nokia) on Tue, 20 May 2025 00:54:37 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6572b17b.2505c)[Xu Jiayi on Tue, 20 May 2025 09:00:10 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;afabd6e7.2505c)[Serhan Guel (Nokia) on Tue, 20 May 2025 01:15:26 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;de0d462b.2505c) |
| Revisions | [S4-250885\_NOK.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250885_NOK.docx)[S4-250885\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250885_r1.docx) |
| Minutes | 20/05/25r1\_NOK version presented by Jiayi.* Gilles: Which reproducibility? If it is for test sequences, it can be helpful. But not more.
* Ralf: We must focus on other technology and not put too much on this in the report.

22/05/25Revision presented by Gilles.* Serhan: Does 4D scene generation apply to dynamic mesh?
	+ Jiayi: No. I can remove it.
 |
| Disposition | Revision is agreed removing 4D scene generation. The revision is agreed and will be integrated to the draft TR. |
| Status | **revised to S4-251131** |

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| TDoc | [S4-250888](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250888.zip) |
| Title | [FS\_Beyond2D] Editorial Updates on Draft TR 26.956 v0.4.0 |
| Source | China Mobile Com. Corporation |
| Contact | Jiayi Xu |
| Agenda Item | 9.7 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Jiayi.* Serhan: The TR version (0.5.0) indicated is not with the good version in 3GU (0.4.0).
	+ Jiayi: Yes, this TDoc is uploaded as a discussion paper, not an official TR version.
 |
| Disposition | Agreed. |
| Status | agreed |

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| TDoc | [S4-250890](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250890.zip) |
| Title | [FS\_Beyond2D] Cover Sheet |
| Source | China Mobile Com. Corporation |
| Contact | Jiayi Xu |
| Agenda Item | 9.7 |
| E-mail Discussion | [Serhan Guel (Nokia) on Sun, 18 May 2025 15:35:48 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;83ddc5d9.2505c)[Xu Jiayi on Mon, 19 May 2025 11:53:18 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6d1c95f3.2505c)[Ralf Schaefer on Mon, 19 May 2025 07:30:46 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;27716efb.2505c)[Xu Jiayi on Mon, 19 May 2025 16:30:27 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;96dfb8c0.2505c)[Xu Jiayi on Mon, 19 May 2025 17:43:24 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7e082b78.2505c)[Serhan Guel (Nokia) on Tue, 20 May 2025 00:54:37 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6572b17b.2505c)[Xu Jiayi on Tue, 20 May 2025 09:00:10 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;afabd6e7.2505c)[Serhan Guel (Nokia) on Tue, 20 May 2025 01:15:26 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;de0d462b.2505c)[Kroon, Bart on Tue, 20 May 2025 01:57:57 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5253cf8a.2505c)[Xu Jiayi on Wed, 21 May 2025 10:48:40 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;572f047b.2505c) |
| Revisions | [S4-250890\_NOK.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250890_NOK.docx)[S4-250890\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250890_r1.docx)[S4-250890\_r2.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Inbox/Drafts/Video/S4-250890_r2.docx) |
| Minutes | r2\_philips version presented by Jiayi.* Serhan: Why are you adding advanced network capabilities extension in the cover page?
	+ Gilles: If this is left to be done, it should be in outstanding issues.
* Eric: We you say identified gap in specifications? Is it 3GPP specifications?
	+ Jiayi; Yes.
* Thomas: On the very last sentence, this sentence is very long. Maybe we can add a period. Then, what I don’t believe is correct are the outstanding issues. What we need is do we have representation format which are existing.
	+ Jiayi: OK.
* Gilles: This should be the abstract the document as it is now. “Identifying gap un current standards” is not completed yet.

22/05/25Presented by Jiayi.No comments. |
| Disposition | Revision agreed. Revised to S4-251150. |
| Status | **revised to S4-251150** |

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| TDoc | [S4-250938](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250938.zip) |
| Title | pCR on using constant bitrate for evaluation of scenario 2 |
| Source | InterDigital Pennsylvania |
| Contact | Ralf Schaefer |
| Agenda Item | 9.7 |
| E-mail Discussion | [Ralf Schaefer on Tue, 20 May 2025 02:22:48 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b4d38d2.2505c) |
| Revisions | No revisions available. |
| Minutes | 20/05/2025r1 version presented by Ralf.* Alexis: Constant bitrate can have different meanings. Can you clarify?
	+ Ralf: This is the average over the 10s.
* Thomas: It is tricky to cross check. It is not really a methodology. But I am OK to leave it like this.
* Alexis: About the bitrate, do you have to be bit exact?
	+ Ralf: We have a margin. I haven’t look how close we are.
 |
| Disposition | No strong concerns on the possibility to run this. r1 is agreed. Revised to S4-251055. |
| Status | **revised to S4-251055** |

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| TDoc | [S4-250939](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250939.zip) |
| Title | Pseudo-CR on annex for data management and hosting |
| Source | InterDigital Pennsylvania |
| Contact | Ralf Schaefer |
| Agenda Item | 9.7 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Ralf.* Gilles: Why do we have “uploading”?
	+ Ralf: This was already in 26.955.
* Jiayi: The introduction section has to be filled.
	+ Ralf: I will remove the introduction.
 |
| Disposition | Introduction will be removed by the editor. Agreed. |
| Status | agreed |

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| TDoc | [S4-250942](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250942.zip) |
| Title | Pseudo-CR on annex for software packages |
| Source | InterDigital Pennsylvania |
| Contact | Ralf Schaefer |
| Agenda Item | 9.7 |
| E-mail Discussion | [Kroon, Bart on Tue, 20 May 2025 05:08:05 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5f7a734a.2505c)[Ralf Schaefer on Tue, 20 May 2025 06:06:23 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e06041f2.2505c) |
| Revisions | No revisions available. |
| Minutes | 20/05/25r1 version presented by Ralf.* Thomas: This is my personnel Github. Maybe in the future we can check if ETSI forge is useful hosting software.
	+ Ralf: Yes, this would be better.
	+ Thomas: Another suggestion would be to leverage 5G-Mag. I should check this.
* Gilles: There are 2 hanging paragraphs. Title will have to be added.
 |
| Disposition | r1 agreed with titles added for hanging paragraphs. Revised to S4-251056. |
| Status | **revised to S4-251056** |

##  9.8 FS\_ARSpatial (Study on Spatial Computing for AR Services)

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

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| TDoc | [S4-250859](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250859.zip) |
| Title | [FS\_ARSpatial] pCR on Semantic perception |
| Source | Tencent |
| Contact | Gilles Teniou |
| Agenda Item | 9.8 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Gilles.* Emmanouil: How the labels are assigned to the semantic map? And what is the relationship between semantic map and scene graph?
	+ Gilles: We may need to identify this case by case.
* Ahmed: I see some overlap with “segementation and labelling”.
	+ Gilles: The semantic perception might be use for the purpose of scene analysis. I agree this can be redundant.
* Imed: Semantic map is the object and labels and scene graph are attributes of this object or not?
* Gilles: Parked. I need to check if the content can be revised.

22/05/25r01 presented by Gilles.* Imed: Textual description would be better in semantic representation..
 |
| Disposition | Online edited version agreed. Revised to S4-251070. The revision will be agreed without presentation. |
| Status | **revised to S4-251070** |

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| TDoc | [S4-250860](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250860.zip) |
| Title | [FS\_ARSpatial] pCR on Call flow for spatial computing |
| Source | Tencent |
| Contact | Gilles Teniou |
| Agenda Item | 9.8 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 20/05/2025Presented by Gilles.* Imed: I am puzzled by the AF discovery. Was the assumption to support Edge computing?
	+ Ahmed: I agree, “discover” is not the good word.
* Imed: Then on step 2, usually you negotiate quality of service. But not the media information over M5. It is over M4.
	+ Gilles: OK.
	+ Ahmed: In 2 and 3, QoS requirement OK. But spatial computing capabilities are on M4.
* Gilles: Parked.

22/05/25r01\_NOK version presented by Gilles.* Imed: Now we are losing the connection between the MAF and the MSH.
	+ Serhan: The description was wrong.
 |
| Disposition |  |
| Status | **revised to S4-251071** |

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| TDoc | [S4-250899](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250899.zip) |
| Title | [FS\_ARSpatial] Evaluation of 3D Reconstruction |
| Source | Qualcomm Atheros, Inc. |
| Contact | Imed Bouazizi |
| Agenda Item | 9.8 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Imed.* Gilles: Would you be in capacity to provide this evaluation at next meeting?
	+ Imed: Yes.
* Ahmed: I understand the requirement. It would be fair to also add AR glasses. But what is propose comes from real things. Within the tile we have it seems difficult to do this evaluation.
	+ Imed: Yes, we can identify AR glasses.
* Ahmed: Evaluation is not part of the study.
	+ Imed: But we can’t explain we do Split Rendering because we can do split rendering.
 |
| Disposition | Noted. Evaluations would be welcome at next meeting.  |
| Status | noted |

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| TDoc | [S4-250900](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250900.zip) |
| Title | [FS\_ARSpatial] Is VSP really a split inference scenario? |
| Source | Qualcomm Atheros, Inc. |
| Contact | Imed Bouazizi |
| Agenda Item | 9.8 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Imed.* Ahmed: This is not just making a request for a document. This is not small.
	+ Imed: This is a service like other services on the Internet. You are not storing all the Internet on your device.
	+ Ahmed: The processing of the query is not simple. It searches for matches in a large space.
* Ahmed: What is VSP? It is not a term used by the industry. Is it the same as VPS (Visual Positioning System)?
	+ Imed: Not sure. It should be the same thing.
 |
| Disposition | Addressed in other contributions. |
| Status | noted |

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| TDoc | [S4-250964](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250964.zip) |
| Title | [FS\_ARSpatial]Clarification on RTC-6 interface in Spatial Computing architecture |
| Source | Nokia |
| Contact | Daniel Philip VENMANI |
| Agenda Item | 9.8 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Daniel.* Ahmed: On the M2 interface, it is OK to consider it out of scope. ANd OK to include M6. But in the text, I suggest to remove “for spatial computing functions”.
	+ Daniel: OK.
* Ahmed: I will deal with the graph quality.
 |
| Disposition | Agreed. The wording “for spatial computing functions” will be removed by the editor. |
| Status | agreed |

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| TDoc | [S4-250965](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250965.zip) |
| Title | [FS\_ARSpatial]Regarding Editor’s note clause 7.3 |
| Source | Nokia |
| Contact | Daniel Philip VENMANI |
| Agenda Item | 9.8 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Daniel.* Ahmed: I am not sure having these boxes in the client is a good idea.
	+ Daniel: This is to copy architecture from SR\_MSE, allowing simplicity.
	+ Ahmed: I agree on the separation.
	+ Daniel: I will work offline for a r01.

22/05/25r01 presented by Daniel.* Gilles: is the figure to be update in the draft TR?
	+ Daniel: Yes.
* Thomas: It is weird to have the spatial computing functions outside the client.
	+ Ahmed: It is managed by XR Runtime outside the client.
	+ Thomas: Maybe it should be named “spatial computing access client”.
* Thomas: There are some lines going anywhere.
* Imed: Let’s stick to what it was for now.
 |
| Disposition | No consensus. Noted. |
| Status | noted |

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| TDoc | [S4-250978](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250978.zip) |
| Title | [FS\_ARSpatial] pCR on Remote Processing of Spatial Computing Functions |
| Source | InterDigital Canada, Orange |
| Contact | Ahmed Hamza |
| Agenda Item | 9.8 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Ahmed.* Imed: We have a problem with the very 1st paragraph. I don’t think this is acceptable to indicate “require important computing and storage capabilities particularly” or “issue for some devices”. We should look at our contributions on this subject.
* Serhan: It is not necessarily a computing problem but a coordination problem. Maybe this can be more explicit.

22/05/25r01 version presented by Ahmed. |
| Disposition | Revision agreed. Revised to S4-251157. |
| Status | **revised to S4-251157** |

|  |  |
| --- | --- |
| TDoc | [S4-250981](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250981.zip) |
| Title | [FS\_ARSpatial] Proposed Updated Time and Work Plan v0.4.1 |
| Source | InterDigital Canada (Rapporteur) |
| Contact | Ahmed Hamza  |
| Agenda Item | 9.8 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes | Completion date moved to July meeting. TR sent for information at this meeting. Telco needed. |
| Disposition | Revised to S4-251159. The revision will be sent to the closing plenary. |
| Status | **revised to S4-251159** |

|  |  |
| --- | --- |
| TDoc | [S4-250984](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250984.zip) |
| Title | [FS\_ARSpatial] pCR on XR Conference Use Case |
| Source | InterDigital Canada |
| Contact | Ahmed Hamza |
| Agenda Item | 9.8 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Ahmed.* Serhan: Maybe some additional text could help to understand the functions?
	+ Ahmed: Yes.
 |
| Disposition | Agreed. Editor will improve the text in 8.2.2. |
| Status | agreed |

|  |  |
| --- | --- |
| TDoc | [S4-250985](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250985.zip) |
| Title | [FS\_ARSpatial] pCR on IMS Mapping |
| Source | InterDigital Canada |
| Contact | Ahmed Hamza |
| Agenda Item | 9.8 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Ahmed.* Imed: Why do we need IMS mapping?
	+ Ahmed: We have a use case about conferencing. That’s already documented in XR5G.
	+ Imed: This would lead to modify 114. I don’t think we should add this without SA2 work. We don’t need this solution.
	+ Ahmed: SA2 does nothing on Split Rendering.

22/05/25Presented by Ahmed.* Imed: I asked for a note explaining that nobody from SA1 or SA2 asked for this.
	+ Gilles: We can add a note “There is no IMS system architecture supporting spatial compute”.
	+ Ahmed: OK.
 |
| Disposition | Revised to S4-251158 including the additional note. The revision will be agreed without presentation. |
| Status | **revised to S4-251158** |

|  |  |
| --- | --- |
| TDoc | [S4-250986](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250986.zip) |
| Title | [FS\_ARSpatial] pCR on Editorial Improvements |
| Source | InterDigital Canada |
| Contact | Ahmed Hamza |
| Agenda Item | 9.8 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 20/05/25Presented by Ahmed.* Gilles: Is still the intent to complete the report during this meeting?
	+ Ahmed: 1 more cycle will be needed.
* Gilles: Do we have the right to use those figures?
	+ Ahmed: I will check.
 |
| Disposition | Agreed as basis for further work. |
| Status | agreed |

## 9.9 Other Rel-19 matters including TEI

|  |  |
| --- | --- |
| TDoc | [S4-250816](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250816.zip) |
| Title | Editorial corrections and increasing readability of text in Figures |
| Source | Nokia |
| Contact | Saba Ahsan |
| Agenda Item | 9.9 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 5/21Saba presents |
| Disposition |  |
| Status | agreed |

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| --- | --- |
| TDoc | [S4-250839](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250839.zip) |
| Title | Update on HEIF and JVET Support for Enhanced Colour Format Signalling |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.9 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes | 5/21Waqar presents |
| Disposition |  |
| Status | agreed |

## 9.10 Any Other Business

9.10.1 Contributions

No documents.

### 9.10.2 Report

The report will be made available in S4-251153

### 9.10.3 Summary from Offline Discussions

### 9.10.4 Output documents

|  |  |  |
| --- | --- | --- |
| A.I.# | Agenda Item | Tdoc # |
| 5 | Reports/Liaisons from other groups/meetings |  |
| 5.2 | Other 3GPP groups | Spatial: 771 (SA6) -> noted Video SWG |
| 5.3 | Other groups | NGVC: 763 (ISO/IEC JTC 1/SC 29/WG 2) -> replied in 1045 in Video SWG |
| 12 | Reports and general issues from sub-working-groups |  |
| 12.3 | Video SWG | 1153 |
| 13 | Release 18 and earlier matters |  |
| 14 | Release 19 Features | FS\_AVATAR: 816 |
| 14.4 | VOPS (Video Operating Points - Harmonization and Stereo MV-HEVC) | WID: 80126.265: 1137TP: 1143PD: 1144 |
| 15 | Study Items |  |
| 15.3 | FS\_AI4Media (Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media) | LS: 105126.927: 108926.847: 1126 |
| 15.4 | FS\_Beyond2D (Study on Beyond 2D Video) | 26.956: 1053TP: 1052PD: 1046 |
| 15.5 | FS\_ARSpatial (Study on Spatial Computing for AR Services) | 26.819: 1071, 1139TP: 1159  |

### 9.10.5 AHG Telcos

|  |  |  |
| --- | --- | --- |
|  ✔ or ✘ | 17th June 3-5pm CEST | 8th July 3-5pm CEST |
| VOPS | ✔  | ✔  |
| FS\_Beyond2D | ✔  | ✔  |
| FS\_ARSpatial | ✔  | ✔  |

## 9.11 Close of the session

The chairman thanked the participants. Thomas Stockhammer thanked the chairman on behalf of the delegates.

The session was closed on May 22, 2025 at 12:50.

# **VIDEO SWG Participants list**

|  |  |  |
| --- | --- | --- |
| **NAME** | **LASTNAME** | **COMPANY** |
| Waqar | **ZIA** | **Apple** |
| Dimitri | **PODBORSKI** | **Apple** |
| Alexis | **TOURAPIS** | **Apple** |
| Krasimir | **KOLAROV** | **Apple** |
| Chunshan | **XIONG** | **CATT** |
| Frédéric | **GABIN** | **Dolby** |
| Brian | **LEE** | **Dolby** |
| Iraj | **SODAGAR** | **Dolby** |
| Mauricio | **ARACENA** | **Ericsson** |
| Stephan | **DÖLHA** | **Fraunhofer HHI** |
| Gerhard | **TECH** | **Fraunhofer HHI** |
| Huan-Yu | **SU** | **Huawei** |
| Eddy | **HALL** | **Huawei** |
| Rufael | **Mekuria** | **Huawei** |
| Gaëlle | **MARTIN-COCHER** | **InterDigital** |
| Ahmed | **HAMZA** | **InterDigital** |
| Stéphane | **ONNO** | **InterDigital** |
| Philippe | **GUILLOTEL** | **InterDigital** |
| Ralf | **SCHAEFER** | **InterDigital** |
| Razvan Andrei | **STOICA** | **LENOVO** |
| Woosuk | **KWON** | **LGE** |
| Jeeyoung | **KIM** | **LGE** |
| Gazi Karam | **ILLAHI** | **Nokia** |
| Shane | **HE** | **Nokia** |
| Serhan | **GÜL** | **Nokia** |
| Justin | **RIDGE** | **Nokia** |
| Julien | **LEMOTHEUX** | **Orange** |
| Thomas | **STOCKHAMMER** | **Qualcomm** |
| Imed | **bouazizi** | **Qualcomm** |
| Jaeyeon | **SONG** | **Samsung** |
| Eric | **YIP** | **Samsung** |
| Madhukar | **BUDAGAVI** | **Samsung** |
| Paul | **SZUCS** | **Sony** |
| Gilles | **teniou** | **Tencent** |
| Elmira | **RAMAZANIREND** | **Vodafone** |
| Mary-Luc | **CHAMPEL** | **Xiaomi** |
| Emmanuel | **THOMAS** | **Xiaomi** |
| Emmanouil | **POTETSANIAKIS** | **Xiaomi** |
| Ying | **HU** | **ZTE** |

The SA4 VIDEO SWG email reflector has **174** subscribers and “some” delegates attended the online VIDEO SWG sessions.

Annex A - The documents status (83 tdocs)

A.1 Agreed documents (not presented to SA4 plenary)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **SWG Agenda Item** | **Replaced by** | **SWG Status** | **SA4 A.I. for Tdocs presented at SA4 plenary\*** |
| [S4-250800](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250800.zip) | [VOPS] Proposed Way Forward on Conformance | Qualcomm Germany, Tencent, Apple, Xiaomi | 9.5 |  | agreed |  |
| [S4-250825](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250825.zip) | [FS\_Beyond2D] Evaluation of multi-view plus depth | Philips International B.V. | 9.7 |  | agreed |  |
| [S4-250831](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250831.zip) | [VOPS] On Conformance bitstreams | Apple Inc. | 9.5 |  | agreed |  |
| [S4-250855](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250855.zip) | Draft TR 26.927 v1.1.1 | Tencent (Editor) | 9.6 |  | agreed |  |
| [S4-250865](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250865.zip) | Draft TR 26.847 v1.1.1 | Samsung Guangzhou Mobile R&D (Editor) | 9.6 |  | agreed |  |
| [S4-250888](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250888.zip) | [FS\_Beyond2D] Editorial Updates on Draft TR 26.956 v0.4.0 | China Mobile Com. Corporation | 9.7 |  | agreed |  |
| [S4-250897](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250897.zip) | [FS\_AI4Media] CR on real-time Translation Scenario | Qualcomm Atheros, Inc. | 9.6 |  | agreed |  |
| [S4-250939](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250939.zip) | Pseudo-CR on annex for data management and hosting | InterDigital Pennsylvania | 9.7 |  | agreed |  |
| [S4-250940](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250940.zip) | [VOPS] pCR On multi-component video signals | Beijing Xiaomi Mobile Software | 9.5 |  | agreed |  |
| [S4-250964](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250964.zip) | [FS\_ARSpatial]Clarification on RTC-6 interface in Spatial Computing architecture | Nokia | 9.8 |  | agreed |  |
| [S4-250984](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250984.zip) | [FS\_ARSpatial] pCR on XR Conference Use Case | InterDigital Canada | 9.8 |  | agreed |  |
| [S4-250986](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250986.zip) | [FS\_ARSpatial] pCR on Editorial Improvements | InterDigital Canada | 9.8 |  | agreed |  |
| [S4-251048](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251048.zip) | [FS\_Beyond2D] Scenario 1: Detailed Test Condition | China Mobile Com. Corporation | 9.7 |  | agreed |  |
| [S4-251049](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251049.zip) | [FS\_Beyond2D] Scenario1: External Performance data and Additional Information | China Mobile Com. Corporation | 9.7 |  | agreed |  |
| [S4-251050](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251050.zip) | [FS\_AI4Media] Suggested update to the conclusions  | HUAWEI TECH. GmbH | 9.6 |  | agreed |  |
| [S4-251055](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251055.zip) | pCR on using constant bitrate for evaluation of scenario 2 | InterDigital Pennsylvania | 9.7 |  | agreed |  |
| [S4-251056](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251056.zip) | Pseudo-CR on annex for software packages | InterDigital Pennsylvania | 9.7 |  | agreed |  |
| S4-251070 | [FS\_ARSpatial] pCR on Semantic perception | Tencent | 9.8 |  | agreed |  |
| [S4-251128](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251128.zip) | [FS\_AI4Media] pCR on conclusions | InterDigital Finland Oy | 9.6 |  | agreed |  |
| [S4-251130](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251130.zip) | [FS\_AI4Media] pCR on definitions to TR 26.927  | InterDigital Finland Oy | 9.6 |  | agreed |  |
| [S4-251131](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251131.zip) | [FS\_Beyond2D] AI-Generated Beyond 2D | China Mobile Com. Corporation,Tencent | 9.7 |  | agreed |  |
| S4-251136 | [VOPS] Merged Update to TS 26.265 | Qualcomm Sweden, Apple, Xiaomi, Huawei, Samsung, Tencent | 9.5 |  | agreed |  |
| S4-251150 | [FS\_Beyond2D] Cover Sheet | China Mobile Com. Corporation | 9.7 |  | agreed |  |
| S4-251157 | [FS\_ARSpatial] pCR on Remote Processing of Spatial Computing Functions | S4-251157 | 9.8 |  | agreed |  |
| S4-251158 | [FS\_ARSpatial] pCR on IMS Mapping | S4-251158 | 9.8 |  | agreed |  |

A.2 Agreed documents (to be presented to SA4 plenary)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **SWG Agenda Item** | **Replaced by** | **SWG Status** | **SA4 A.I. for Tdocs presented at SA4 plenary\*** |
| [S4-250801](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250801.zip) | [VOPS] Updated Work Item to address Conformance | Qualcomm Sweden, Tencent, Apple, Xiaomi | 9.5 |  | agreed | 14.4 |
| [S4-250816](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250816.zip) | Editorial corrections and increasing readability of text in Figures | Nokia | 9.9 |  | agreed | 14 |
| S4-251045 | Reply LS on extended market and practical considerations for Next Generation Video Coding | Orange Belgium | 9.3 |  | agreed | 5.3 |
| [S4-251046](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251046.zip) | [FS\_Beyond2D] Permanent Document v0.0.9 | China Mobile Com. Corporation | 9.7 |  | agreed | 15.4 |
| [S4-251051](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251051.zip) | LS to SC29 WG1 on JPEG AI Standard and TR 26.927 | Huawei, Hisilicon | 9.6 |  | agreed | 15.3 |
| S4-251126 | Draft TR 26.847 v1.3.0 | Samsung Guangzhou Mobile R&D (Editor) | 9.6 |  | agreed | 15.3 |
| S4-251143 | [VOPS] Work Plan | Apple Inc. | 9.5 |  | agreed | 14.4 |

A.3 Other status than agreed documents (not presented to SA4 plenary)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **SWG Agenda Item** | **Replaced by** | **SWG Status** | **SA4 A.I. for Tdocs presented at SA4 plenary\*** |
| [S4-250763](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250763.zip) | Liaison statement on extended market and practical considerations for Next Generation Video Coding | ISO/IEC JTC 1/SC 29/WG 2 | 9.3 | S4-250810 | replied |  |
| [S4-250771](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250771.zip) | LS on Spatial Map Media Format | SA6 | 9.3 |  | noted |  |
| [S4-250775](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250775.zip) | Suggested Technical and Editorial changes to 26.265 | HUAWEI TECH. GmbH | 9.5 | S4-251136 | merged |  |
| [S4-250797](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250797.zip) | [VOPS] Updated Terminology | Qualcomm Sweden, Tencent | 9.5 | S4-251136 | merged |  |
| [S4-250798](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250798.zip) | [VOPS] AVC Operation Points | Qualcomm Sweden, Tencent | 9.5 | S4-251136 | merged |  |
| [S4-250799](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250799.zip) | [VOPS] Updates to HEVC Operation Points | Qualcomm Sweden, Tencent | 9.5 | S4-251136 | merged |  |
| [S4-250806](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250806.zip) | LS to SC29 WG1 on JPEG AI Standard and TR 26.927 | Huawei, Hisilicon | 9.6 | S4-251051 | revised |  |
| [S4-250810](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250810.zip) | Reply LS on extended market and practical considerations for Next Generation Video Coding | Orange Belgium | 9.3 | S4-251045 | revised |  |
| [S4-250829](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250829.zip) | [VOPS] HEVC+Alpha operating point | Apple Inc. | 9.5 |  | noted |  |
| [S4-250830](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250830.zip) | [VOPS] Terminology and usage | Apple Inc., Tencent | 9.5 | S4-251136 | merged |  |
| [S4-250832](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250832.zip) | [VOPS] Removal of duplicated constraints | Apple Inc. | 9.5 | S4-251136 | merged |  |
| [S4-250833](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250833.zip) | [VOPS] On Multiview profiles | Apple Inc. | 9.5 | S4-251136 | merged |  |
| S4-250834 | [VOPS] On video coding capabilities and operating points | Apple Inc. | 9.5 |  | withdrawn |  |
| [S4-250835](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250835.zip) | [VOPS] On video coding capabilities and operating points | Apple Inc. | 9.5 |  | endorsed |  |
| S4-250836 | [VOPS] On video coding capabilities and operating points | Apple Inc. | 9.5 |  | withdrawn |  |
| [S4-250837](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250837.zip) | [VOPS] Updates for MV-HEVC | Apple Inc., Qualcomm Incorporated, Tencent | 9.5 |  | endorsed |  |
| [S4-250838](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250838.zip) | [VOPS] Work Plan | Apple Inc. | 9.5 | S4-251143 | revised |  |
| [S4-250839](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250839.zip) | Update on HEIF and JVET Support for Enhanced Colour Format Signalling | Apple Inc. | 9.10 |  | noted |  |
| [S4-250859](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250859.zip) | [FS\_ARSpatial] pCR on Semantic perception | Tencent | 9.8 | S4-251070 | revised |  |
| [S4-250860](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250860.zip) | [FS\_ARSpatial] pCR on Call flow for spatial computing | Tencent | 9.8 | S4-251071 | revised |  |
| [S4-250861](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250861.zip) | [VOPS] pCR on terminology for adressing the concept of video layer | Beijing Xiaomi Mobile Software | 9.5 | S4-251136 | merged |  |
| [S4-250880](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250880.zip) | [FS\_Beyond2D] Scenario 1: Detailed Test Condition | China Mobile Com. Corporation | 9.7 | S4-251048 | revised |  |
| [S4-250882](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250882.zip) | [FS\_Beyond2D] Scenario1: External Performance data and Additional Information | China Mobile Com. Corporation | 9.7 | S4-251049 | revised |  |
| [S4-250883](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250883.zip) | [FS\_Beyond2D] Introduction of AI Generated Beyond 2D Content | China Mobile Com. Corporation | 9.7 | S4-251131 | merged |  |
| [S4-250885](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250885.zip) | [FS\_Beyond2D] AI-Generated Dynamic Mesh | China Mobile Com. Corporation | 9.7 | S4-251131 | revised |  |
| [S4-250890](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250890.zip) | [FS\_Beyond2D] Cover Sheet | China Mobile Com. Corporation | 9.7 | S4-251150 | revised |  |
| [S4-250899](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250899.zip) | [FS\_ARSpatial] Evaluation of 3D Reconstruction | Qualcomm Atheros, Inc. | 9.8 |  | noted |  |
| [S4-250900](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250900.zip) | [FS\_ARSpatial] Is VSP really a split inference scenario? | Qualcomm Atheros, Inc. | 9.8 |  | noted |  |
| [S4-250922](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250922.zip) | [FS\_AI4Media] Suggested update to the conclusions  | HUAWEI TECH. GmbH | 9.6 | S4-251050 | revised |  |
| [S4-250938](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250938.zip) | pCR on using constant bitrate for evaluation of scenario 2 | InterDigital Pennsylvania | 9.7 | S4-251055 | revised |  |
| [S4-250942](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250942.zip) | Pseudo-CR on annex for software packages | InterDigital Pennsylvania | 9.7 | S4-251056 | revised |  |
| [S4-250965](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250965.zip) | [FS\_ARSpatial]Regarding Editor’s note clause 7.3 | Nokia | 9.8 |  | noted |  |
| [S4-250972](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250972.zip) | [FS\_AI4Media] pCR on edits to TR 26.927 | InterDigital Finland Oy | 9.6 |  | noted |  |
| [S4-250973](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250973.zip) | [FS\_AI4Media] pCR on definitions to TR 26.927  | InterDigital Finland Oy | 9.6 | S4-251130 | revised |  |
| [S4-250974](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250974.zip) | [FS\_AI4Media] pCR on conclusions | InterDigital Finland Oy | 9.6 | S4-251128 | revised |  |
| [S4-250978](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250978.zip) | [FS\_ARSpatial] pCR on Remote Processing of Spatial Computing Functions | InterDigital Canada, Orange | 9.8 | S4-251157 | revised |  |
| [S4-250981](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250981.zip) | [FS\_ARSpatial] Proposed Updated Time and Work Plan v0.4.1 | InterDigital Canada (Rapporteur) | 9.8 | S4-251159 | revised |  |
| [S4-250985](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-250985.zip) | [FS\_ARSpatial] pCR on IMS Mapping | InterDigital Canada | 9.8 | S4-251158 | revised |  |
| [S4-251015](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_132_Fukuoka/Docs/S4-251015.zip) | [VOPS] Thoughts on sample bitstream platform (conformance) | Xiaomi Technology (Polska) sp. | 9.5 |  | noted |  |
| S4-251044 | Draft TR 26.847 v1.2.0 | Samsung Guangzhou Mobile R&D (Editor) | 9.6 | S4-251126 | revised |  |

**A.4 Other status than agreed documents (to be presented to SA4 plenary)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **SWG Agenda Item** | **Replaced by** | **SWG Status** | **SA4 A.I. for Tdocs presented at SA4 plenary\*** |
| S4-251052 | [FS\_Beyond2D] Workplan V1.0 | China Mobile Com. Corporation | 9.7 |  | - | 15.4 |
| S4-251053 | [FS\_Beyond2D] TR 26.956 V0.5.0 | China Mobile Com. Corporation | 9.7 |  | - | 15.4 |
| S4-251071 | [FS\_ARSpatial] pCR on Call flow for spatial computing | Tencent | 9.8 |  | - | 15.5 |
| S4-251089 | Draft TR 26.927 v1.2.0 | Tencent (Editor) | 9.6 |  | - | 15.3 |
| S4-251137 | TS 26.265 v1.2.0 | Qualcomm Sweden | 9.5 |  | - | 14.4 |
| S4-251139 | Draft TR 26.819 v0.5.0 | InterDigital Canada | 9.8 |  | - | 15.5 |
| S4-251144 | VOPS Permanent Document for conformance work v0.1.0 | Xiaomi Technology (Polska) sp. | 9.5 |  | - | 14.4 |
| S4-251153 | VIDEO SWG Report during SA4#132 | VIDEO SWG Chair (Tencent) | - |  | - | 12.3 |
| S4-251159 | [FS\_ARSpatial] Updated Time and Work Plan v0.5.0 | S4-251159 | 9.8 |  | - | 15.5 |

1. Gilles TENIOU, Tencent; teniou@global.tencent.com [↑](#footnote-ref-1)