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

**Title: VIDEO SWG Report during SA4#133-e**

## 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 # |
| 12 | Reports and general issues from sub-working-groups |  |
| 12.3 | Video SWG | 1445 |
| 14 | Release 19 Features |  |
| 14.4 | VOPS (Video Operating Points - Harmonization and Stereo MV-HEVC) | 26.265: 1516, 1522, 1523(cp)26.511: 134126.143: 1518PD: 1521TP: 1342Progress: 90% -> xx% (12/25) |
| 15 | Study Items |  |
| 15.2 | FS\_Beyond2D (Study on Beyond 2D Video) | 26.956: 1493, 1492(cp)Progress: 70% -> xx% (09/25) |
| 15.3 | FS\_ARSpatial (Study on Spatial Computing for AR Services) | 26.956: 1493, 1492(cp)Progress: 85% -> xx% (09/25) |

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#133

## 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 July 21, 2025 at 16:35 CEST.

Thomas Stockhammer (Qualcomm) and Mary-Luc Champel (Xiaomi) are assigned as scribes.

The minutes are shared [Video SWG Minutes SA4#133](https://docs.google.com/document/d/1uECdRUqMn_X98KlhLYF5DWpKeIHRE1eL0lEukfaph7I/edit?usp=sharing)

Attendees are listed [here](https://portal.3gpp.org/Home.aspx#/meeting?MtgId=82858). Please register.

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

* <https://list.etsi.org/scripts/wa.exe?A1=ind2507C&L=3GPP_TSG_SA_WG4_VIDEO>
* <https://list.etsi.org/scripts/wa.exe?A1=ind2507D&L=3GPP_TSG_SA_WG4_VIDEO>

SA4 Schedule: [S4-251210](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251210.zip)

The agenda and the registration of documents are approved.

### 9.1.2 Registration of documents

|  |  |  |  |
| --- | --- | --- | --- |
| TDoc | Title | Source | Agenda item |
| [S4-251216](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251216.zip) | VOPS Permanent Document for conformance work v0.2.0 | Xiaomi Technology (Polska) sp. | 9.5 |
| [S4-251263](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251263.zip) | [FS\_Beyond2D] pCR on Annex F Data management and hosting | Philips International B.V. | 9.6 |
| [S4-251286](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251286.zip) | [FS\_Beyond2D] pCR on evaluation results for scenario 2 | InterDigital France R&D, SAS | 9.6 |
| [S4-251287](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251287.zip) | [FS\_ARSpatial] pCR on mapping of spatial computing to 5G services | Nokia | 9.7 |
| [S4-251288](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251288.zip) | [FS\_Beyond2D] pCR on corrections and completion in annexes for scenario 2 | InterDigital France R&D, SAS | 9.6 |
| [S4-251289](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251289.zip) | [FS\_Beyond2D] pCR on corrections and completion in clause 7 for scenario 2 | InterDigital France R&D, SAS | 9.6 |
| [S4-251291](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251291.zip) | [FS\_Beyond2D] pCR on gaps, conclusion and next steps for scenario 2 | InterDigital France R&D, SAS | 9.6 |
| S4-251293 | [FS\_Beyond2D] pCR on complementary evaluation results for scenario 2 | InterDigital France R&D, SAS | 9.6 |
| [S4-251318](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251318.zip) | [FS\_Beyond2D] Gaussian Splats in glTF | Qualcomm Incorporated | 9.6 |
| [S4-251319](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251319.zip) | [FS\_Beyond2D] Draft Conclusions | Qualcomm Incorporated | 9.6 |
| [S4-251320](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251320.zip) | [FS\_Beyond2D] pCR on Evaluation Results for the Scenario 1 | China Mobile (Hangzhou) Inf. | 9.6 |
| [S4-251321](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251321.zip) | [FS\_Beyond2D] Gaps and Optimization Potential | China Mobile (Hangzhou) Inf. | 9.6 |
| [S4-251322](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251322.zip) | [FS\_Beyond2D] DRAFT Conclusions and Proposed Next Steps | China Mobile (Hangzhou) Inf. | 9.6 |
| [S4-251323](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251323.zip) | [FS\_Beyond2D] TR 26.956 V1.1.0 | China Mobile (Hangzhou) Inf. | 9.6 |
| [S4-251324](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251324.zip) | [FS\_Beyond2D]Permenant Document v1.0.0 | China Mobile (Hangzhou) Inf. | 9.6 |
| [S4-251325](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251325.zip) | [FS\_Beyond2D]Cover Page of TR 26.956 | China Mobile (Hangzhou) Inf. | 9.6 |
| [S4-251334](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251334.zip) | [VOPS] On Multiview profiles | Apple Inc., Samsung | 9.5 |
| [S4-251335](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251335.zip) | [VOPS] On Random Access Points | Apple Inc. | 9.5 |
| [S4-251336](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251336.zip) | [VOPS] On Multiview features | Apple Inc. | 9.5 |
| [S4-251337](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251337.zip) | [VOPS] On Conformance bitstreams | Apple Inc. | 9.5 |
| [S4-251338](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251338.zip) | [VOPS] On stereo codecs parameter strings | Apple Inc. | 9.5 |
| [S4-251339](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251339.zip) | [VOPS] Misc corrections | Apple Inc. | 9.5 |
| [S4-251340](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251340.zip) | [VOPS] On video coding capabilities and operating points | Apple Inc. | 9.5 |
| [S4-251341](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251341.zip) | [VOPS] Updates for MV-HEVC | Apple Inc., Qualcomm Incorporated, Tencent | 9.5 |
| S4-251342 | [VOPS] Work Plan | Apple Inc. | 9.5 |
| [S4-251353](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251353.zip) | [FS\_ARSpatial] pCR on spatial computing functions | Nokia | 9.7 |
| [S4-251380](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251380.zip) | [VOPS] Updates to TS 26.265 | Qualcomm Incorporated | 9.5 |
| [S4-251383](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251383.zip) | [FS\_Beyond2D] Draft Conclusions and Recommendations | Qualcomm Incorporated, Tencent | 9.6 |
| [S4-251389](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251389.zip) | [FS\_Beyond2D] Terms and Abbreviations | China Mobile (Hangzhou) Inf. | 9.6 |
| [S4-251398](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251398.zip) | [VOPS] pCR on Clarifications of bitstream constraints rules | Xiaomi Technology (Polska) sp. | 9.5 |
| [S4-251399](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251399.zip) | [VOPS] pCR on Coded Video Layer in system integration | Xiaomi Technology (Polska) sp. | 9.5 |
| [S4-251409](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251409.zip) | [VOPS] Update on bitstream validation software | Xiaomi Technology (Polska) sp. | 9.5 |
| [S4-251410](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251410.zip) | [FS\_ARSpatial] pCR on Conclusions and Proposed Next Steps | InterDigital Canada | 9.7 |
| [S4-251416](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251416.zip) | [FS\_ARSpatial] pCR on Image References | InterDigital Canada | 9.7 |
| [S4-251460](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251460.zip) | [VOPS] Update on bitstream validation software | Xiaomi Technology (Polska) sp. | 9.5 |
| [S4-251476](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251476.zip) | [FS\_Beyond2D] Gaussian Splats in glTF | Qualcomm Incorporated, Interdigital | 9.6 |
| [S4-251488](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251488.zip) | [FS\_ARSpatial] pCR on spatial computing functions | Nokia | 9.7 |
| S4-251491 | [FS\_Beyond2D] Terms and Abbreviations | China Mobile (Hangzhou) Inf. | 9.6 |
| S4-251492 | [FS\_Beyond2D]Cover Page of TR 26.956 | China Mobile (Hangzhou) Inf. | 9.6 |
| S4-251493 | [FS\_Beyond2D] TR 26.956 V1.1.0 | China Mobile (Hangzhou) Inf. | 9.6 |
| [S4-251495](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251495.zip) | [FS\_Beyond2D] pCR on evaluation results for scenario 2 | InterDigital France R&D, SAS | 9.6 |
| [S4-251496](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251496.zip) | [FS\_Beyond2D] pCR on corrections and completion in annexes for scenario 2 | InterDigital France R&D, SAS | 9.6 |
| S4-251514 | [VOPS] On Multiview profiles | Apple Inc., Samsung | 9.5 |
| S4-251515 | [VOPS] On stereo codecs parameter strings | Apple Inc. | 9.5 |
| S4-251516 | [VOPS] On Multiview features | Apple Inc. | 9.5 |
| S4-251518 | [VOPS] On video coding capabilities and operating points | Apple Inc. | 9.5 |
| S4-251519 | [VOPS] On Random Access Points | Apple Inc. | 9.5 |
| S4-251520 | [VOPS] pCR on Clarifications of bitstream constraints rules | Xiaomi Technology (Polska) sp. | 9.5 |
| S4-251521 | VOPS Permanent Document for conformance work v1.0.0 | Xiaomi Technology (Polska) sp. | 9.5 |
| S4-251522 | TS 26.265 v1.3.0 | Qualcomm Incorporated | 9.5 |
| S4-251523 | Draft Cover Page for TS 26.265 v2.0.0 | Qualcomm Incorporated | 9.5 |
| [S4-251524](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251524.zip) | [FS\_Beyond2D] Conclusions and Recommendations | Qualcomm Incorporated, Tencent, CMCC, Interdigital, Philips International B.V. | 9.6 |
| S4-251526 | [FS\_ARSpatial] pCR on mapping of spatial computing to 5G services | Nokia | 9.7 |
| S4-251530 | [FS\_ARSpatial] pCR on Conclusions and Proposed Next Steps | InterDigital Canada | 9.7 |
| S4-251531 | [FS\_ARSpatial] Cover Page for TR 26.819 v2.0.0 | InterDigital Canada | 9.7 |
| S4-251532 | [FS\_Beyond2D] Gaps and Optimization Potential | China Mobile (Hangzhou) Inf. | 9.6 |
| S4-251545 | Draft TR 26.819 v1.1.0 | InterDigital Canada | 9.7 |

## 9.2 IPR, antitrust and consensus principles 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."*
* *The attention of the delegates to the meeting was drawn to the fact that 3GPP endeavours to reach consensus on all decisions and therefore depends on a cooperative spirit of the Individual Members. In particular, Individual Members are encouraged to seek a consensus-based solution and only to sustain objections as a very last resort, and where absolutely necessary and well justified. The leadership will conduct the present meeting in a manner whereby informal methods of reaching consensus are encouraged, whilst ensuring that well justified concerns are taken into account.”*

## 9.3 Reports/Liaisons from other groups/meetings

## 9.4 Release 18 and earlier matters

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

WID: [SP-250818](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_108_Prague_2025-06/Docs/SP-250818.zip) New WID on Video Operating Points - Harmonization and Stereo MV-HEVC

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| --- | --- |
| TDoc | [S4-251216](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251216.zip) |
| Title | VOPS Permanent Document for conformance work v0.2.0 |
| Source | Xiaomi Technology (Polska) sp. |
| Contact | Emmanuel Thomas |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;27a26071.2507c)  [Gilles Teniou on Mon, 21 Jul 2025 12:55:47 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d2bc67bf.2507c) |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | **revised to S4-251521** |

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| --- | --- |
| TDoc | [S4-251521](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251521.zip) |
| Title | VOPS Permanent Document for conformance work v1.0.0 |
| Source | Xiaomi Technology (Polska) sp. |
| Contact | Emmanuel Thomas |
| Agenda Item | 9.5 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | reservedagreed |

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| TDoc | [S4-251334](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251334.zip) |
| Title | [VOPS] On Multiview profiles |
| Source | Apple Inc., Samsung |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;46930ac1.2507c)  [Thomas Stockhammer on Mon, 21 Jul 2025 11:57:43 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b1bc4688.2507c)  [Waqar Zia on Wed, 23 Jul 2025 13:31:52 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d368f96.2507d) |
| Revisions | [S4-251334\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251334_r1.docx)  [S4-251334\_r2.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251334_r2.docx) |
| Minutes | 07/21 call   * Waqar presents * Thomas : worried we create too many options and there is already content available that we need to support. * Gilles : is there any compatibility flag that could be set in the bitstream ? * Waqar : support for both is possible. A possible way forward is to include both operating points at first. And retire one later. * Rajan : agreed on having both at first and retire one later. * Thomas checking   07/23 call   * Waqar presents r02 * Thomas : unhappy to keep the two decoding capabilities. Later CR may allow to combine * Thomas : editorially, constraints should be nicely grouped into a single location in the document.   + Gilles : that could be done in an ad-Hoc * Thomas : there should be more details on how the 3D SEI message shall be used. Which syntax elements are required, which ones can be ignored,...   + Track with Editor’s note for the moment until it is implemented |
| Disposition | Revised to S4-251514, agreed with the addition of Editor’s note mentioned before |
| Status | **revised to S4-251514** |

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| --- | --- |
| TDoc | [S4-251514](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251514.zip) |
| Title | [VOPS] On Multiview profiles |
| Source | Apple Inc., Samsung |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | reservedagreed |

|  |  |
| --- | --- |
| TDoc | [S4-251335](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251335.zip) |
| Title | [VOPS] On Random Access Points |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9d4576a8.2507c)  [Thomas Stockhammer on Mon, 21 Jul 2025 10:51:29 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8b67cb58.2507c)  [Waqar Zia on Tue, 22 Jul 2025 16:56:17 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;62ead298.2507d)  [Waqar Zia on Wed, 23 Jul 2025 10:56:52 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c83eb197.2507d)  [Waqar Zia on Wed, 23 Jul 2025 13:39:53 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;10d3e6cc.2507d) |
| Revisions | [S4-251335\_QCOM.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251335_QCOM.docx)  [S4-251335\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251335_r1.docx)  [S4-251335\_r2.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251335_r2.docx) |
| Minutes | 07/21 call   * Waqar presents * Correct inconsistency of frame/picture * Option: remove GDR |
| Disposition | Revised and agreed |
| Status | **revised to S4-251519** |

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| --- | --- |
| TDoc | [S4-251519](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251519.zip) |
| Title | [VOPS] On Random Access Points |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | reservedagreed |

|  |  |
| --- | --- |
| TDoc | [S4-251336](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251336.zip) |
| Title | [VOPS] On Multiview features |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;80bb90b6.2507c)  [Thomas Stockhammer on Mon, 21 Jul 2025 11:50:59 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6297ef53.2507c)  [Emmanuel Thomas on Mon, 21 Jul 2025 12:07:45 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6d12cd0d.2507c)  [Waqar Zia on Tue, 22 Jul 2025 13:56:08 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3d0d2a33.2507d)  [Waqar Zia on Wed, 23 Jul 2025 11:35:46 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d5c518ea.2507d)  [Waqar Zia on Wed, 23 Jul 2025 13:33:30 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b0ffca1f.2507d)  [Gilles Teniou on Wed, 23 Jul 2025 12:51:32 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ef2a5fb8.2507d)  [Waqar Zia on Wed, 23 Jul 2025 16:21:28 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;a51dc51c.2507d) |
| Revisions | [S4-251336\_QCOM.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251336_QCOM.docx)  [S4-251336\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251336_r1.docx)  [S4-251336\_r2.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251336_r2.docx)  [S4-251336\_r3.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251336_r3.docx)  [S4-251336\_r4.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251336_r4.docx) |
| Minutes | * 07/21 call * Waqar summarizes email discussions and progress (QCOM revision) * Thomas : Layering : should we restrict to just 2 layers ?   + Waqar : agreed to restrict to 2.   + Alexis : Operating points on 1st layer but also some requirements on VPS on 2nd layer   + Thomas : force 2nd layer to id 1   + Alexis : cannot be done. It may be created differently   + Emmanuel : agreed on restricting to 2 layers.   + Thomas : we should be able to handle more than 2 layers but this requires additional constraints on the additional layers   + Alexis : The VPs can say it has multiple layers. It is all about the operating points the VPS indicates   + Thomas : Operating points shall indicate minimum to do on well-identified layers   + Waqar : there is a difference between operating points and device processing requirements   + Rajan : only 2 layers OR several layers but first 2 layers are constrained according to Operating points ? * Thomas : We have to say something about 3D SEI message   + Emmanuel : Not sure it is needed for basic stereoscopic content. Should we mandate the presence of the SEI message?   + TS : recommend the SEI message presence ?   + Emmanuel : OK to have constraint in the file format but not in the bitstream itself. Recommending presence of SEI is OK, mandating it is difficult to accept.   + Gilles : do we agree the SEI message shall be conveyed, no matter how ?   + Waqar : scalability mask flag could be used.   07/23 call   * Waqar presents r04 * Thomas : How do we progress this now? * Waqar : organize an offline ? * Emmanuel : In offline we may have time to only address stereoscopic. More time would be needed to do the rest. * Gilles : preference for offline now. * Thomas : We can try to do it for Friday but it is challenging * Waqar : there are indeed many other open issues * Gilles : offers power to an Ahg call before SA plenary. Otherwise, we would need to ask for exception * Thomas : no need for exception. There is agreement on what to do. We only need time to implement. * Thomas : let’s have an offline to agree on principles and how to implement it. |
| Disposition | Offline to progress |
| Status | **revised to S4-251516** |

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| TDoc | [S4-251516](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251516.zip) |
| Title | [VOPS] On Multiview features |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | reservedagreed |

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| TDoc | [S4-251337](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251337.zip) |
| Title | [VOPS] On Conformance bitstreams |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;85c4a903.2507c)  [Thomas Stockhammer on Mon, 21 Jul 2025 11:51:54 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7d3c0cd6.2507c)  [Gilles Teniou on Mon, 21 Jul 2025 12:58:45 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;4d655258.2507c) |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251338](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251338.zip) |
| Title | [VOPS] On stereo codecs parameter strings |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3bb18735.2507c)  [Saba Ahsan (Nokia) on Mon, 21 Jul 2025 11:47:44 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c5723091.2507c)  [Waqar Zia on Mon, 21 Jul 2025 14:56:50 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;18818de5.2507c) |
| Revisions | [S4-251338\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251338_r1.docx) |
| Minutes | 07/21 call   * Waqar presents * Gilles: Draft amendment will be soon published. For simulcast. * Thomas : Should we only allow for stereo or let the decoder only use one stream for “single-eyed” view * Waqar : should allow both * Thomas : both codec strings could be allowed * Waqar: example for frame packed needs to be fixed or removed   07/23 call   * Thomas : add editor’s note to identify remaining work * Gilles : let’s keep for offline atm |
| Disposition |  |
| Status | **revised to S4-251515** |

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| TDoc | [S4-251515](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251515.zip) |
| Title | [VOPS] On stereo codecs parameter strings |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | reservedagreed |

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| TDoc | [S4-251339](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251339.zip) |
| Title | [VOPS] Misc corrections |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c0c7dbdb.2507c)  [Thomas Stockhammer on Mon, 21 Jul 2025 12:01:38 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d740c136.2507c)  [Emmanuel Thomas on Mon, 21 Jul 2025 12:21:49 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;509e073d.2507c)  [Waqar Zia on Mon, 21 Jul 2025 15:32:57 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;71e21cff.2507c)  [Waqar Zia on Mon, 21 Jul 2025 15:34:07 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;78b31a5d.2507c)  [Emmanuel Thomas on Mon, 21 Jul 2025 13:54:05 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8053d7bc.2507c)  [Waqar Zia on Mon, 21 Jul 2025 16:06:52 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f1a8d4d7.2507c)  [Waqar Zia on Mon, 21 Jul 2025 16:10:40 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;362d299b.2507c)  [Waqar Zia on Tue, 22 Jul 2025 11:01:49 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;578ec05a.2507d)  [Alexis Tourapis on Tue, 22 Jul 2025 03:12:32 -0700](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b99d98e.2507d)  [Waqar Zia on Tue, 22 Jul 2025 12:40:16 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;4a7407b1.2507d)  [Waqar Zia on Tue, 22 Jul 2025 12:53:14 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;76b71e82.2507d)  [Alexandros Tourapis on Tue, 22 Jul 2025 10:37:36 -0700](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8311b801.2507d) |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | available |

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| TDoc | [S4-251340](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251340.zip) |
| Title | [VOPS] On video coding capabilities and operating points |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;af9f1c44.2507c)  [Thomas Stockhammer on Mon, 21 Jul 2025 10:56:33 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e2f5cb18.2507c)  [Gilles Teniou on Mon, 21 Jul 2025 13:15:02 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;46e5490.2507c)  [Waqar Zia on Tue, 22 Jul 2025 16:09:22 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2a88d77e.2507d)  [Gilles Teniou on Wed, 23 Jul 2025 12:42:56 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7cc025ed.2507d) |
| Revisions | [S4-251340\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251340_r1.docx) |
| Minutes | 07/21 call   * Waqar : Should we remove HD operating point ? Both dec and Enc. * Gilles : Either we keep old reference or we point to 26.265 but we need to integrate this HD operating point in it. * Thomas : refer to 26.265 whenever possible. |
| Disposition |  |
| Status | **revised to S4-251518** |

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| TDoc | [S4-251518](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251518.zip) |
| Title | [VOPS] On video coding capabilities and operating points |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | reservedagreed |

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| TDoc | [S4-251341](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251341.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 | 07/21 call   * Waqar presents   07/23 call |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251342](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251342.zip) |
| Title | [VOPS] Work Plan |
| Source | Apple Inc. |
| Contact | Waqar Zia |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | Plenary |

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| TDoc | [S4-251380](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251380.zip) |
| Title | [VOPS] Updates to TS 26.265 |
| Source | Qualcomm Incorporated |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2ae3d533.2507c)  [Gilles Teniou on Mon, 21 Jul 2025 12:41:36 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;1928fd74.2507c) |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251398](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251398.zip) |
| Title | [VOPS] pCR on Clarifications of bitstream constraints rules |
| Source | Xiaomi Technology (Polska) sp. |
| Contact | Emmanuel Thomas |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;23e12442.2507c)  [Thomas Stockhammer on Mon, 21 Jul 2025 11:58:46 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c1bf3021.2507c)  [Waqar Zia on Wed, 23 Jul 2025 10:51:30 +0200](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;753a3518.2507d)  [Emmanuel Thomas on Wed, 23 Jul 2025 12:34:37 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e8eacf9b.2507d) |
| Revisions | [S4-251398r01.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251398r01.docx) |
| Minutes | 07/21 call   * Emmanuel presents * Emmanuel : many constraints on VPS but we do not require VPS in the bitstream. It is proposed to mandate the presence of VPS in the bitstream.   07/23 call   * Emmanuel presents r01 * Thomas : need proper reference. Let’s have editor’s note to remember to fix this * Alexis : have to be very careful when interpreting HEVC spec on this. * Emmanuel : 2nd change will be removed so we can agree on the document * Gilles : Editor’s note to have the VPS aspects fixed |
| Disposition | Revised and agreed |
| Status | **revised to S4-251520** |

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| TDoc | [S4-251520](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251520.zip) |
| Title | [VOPS] pCR on Clarifications of bitstream constraints rules |
| Source | Xiaomi Technology (Polska) sp. |
| Contact | Emmanuel Thomas |
| Agenda Item | 9.5 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | reservedagreed |

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| TDoc | [S4-251399](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251399.zip) |
| Title | [VOPS] pCR on Coded Video Layer in system integration |
| Source | Xiaomi Technology (Polska) sp. |
| Contact | Emmanuel Thomas |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e3bdf843.2507c)  [Thomas Stockhammer on Mon, 21 Jul 2025 11:54:20 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;38876426.2507c) |
| Revisions | No revisions available. |
| Minutes | 07/21 call   * Emmanuel presents * Gilles : editor notes to be removed * Giles : what to do with text under brackets ? * Waqar : need to look at integrated version |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251409](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251409.zip) |
| Title | [VOPS] Update on bitstream validation software |
| Source | Xiaomi Technology (Polska) sp. |
| Contact | Emmanuel Thomas |
| Agenda Item | 9.5 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6093511.2507c)  [Emmanuel Thomas on Mon, 21 Jul 2025 11:30:34 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;810b2597.2507c)  [Gilles Teniou on Mon, 21 Jul 2025 13:02:12 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3301d79f.2507c)  [Emmanuel Thomas on Mon, 21 Jul 2025 13:10:39 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;585218ce.2507c) |
| Revisions | [S4-251409r01.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251409r01.docx) |
| Minutes |  |
| Disposition |  |
| Status | **revised to S4-251460** |

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| TDoc | [S4-251460](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251460.zip) |
| Title | [VOPS] Update on bitstream validation software |
| Source | Xiaomi Technology (Polska) sp. |
| Contact | Emmanuel Thomas |
| Agenda Item | 9.5 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251523](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251523.zip) |
| Title | Draft Cover Page for TS 26.265 v2.0.0 |
| Source | Qualcomm Incorporated |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.5 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | reservedPlenary |

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| TDoc | [S4-251522](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251522.zip) |
| Title | TS 26.265 v1.3.0 |
| Source | Qualcomm Incorporated |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.5 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | reservedPlenary |

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

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 | [S4-251263](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251263.zip) |
| Title | [FS\_Beyond2D] pCR on Annex F Data management and hosting |
| Source | Philips International B.V. |
| Contact | Bart Kroon |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d6466d66.2507c)  [Gilles Teniou on Tue, 22 Jul 2025 11:03:43 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f1802edf.2507d) |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition | No comment was received. The document **S4-251263** is **agreed**. |
| Status | agreed |

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| TDoc | [S4-251286](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251286.zip) |
| Title | [FS\_Beyond2D] pCR on evaluation results for scenario 2 |
| Source | InterDigital France R&D, SAS |
| Contact | Ralf Schaefer |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b973a3bf.2507c)  [Ralf Schaefer on Mon, 21 Jul 2025 13:02:59 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3eec8dfe.2507c)  [Gilles Teniou on Tue, 22 Jul 2025 11:10:22 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e1ab5732.2507d) |
| Revisions | [S4-251286 Scenario 2 Evaluation R1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251286%20Scenario%202%20Evaluation%20R1.docx)  [S4-251286 Scenario 2 Evaluation R2.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251286%20Scenario%202%20Evaluation%20R2.docx) |
| Minutes | Revision is needed and agreed. |
| Disposition | R01 is agreed. Revision is needed. |
| Status | **revised to S4-251495** |

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| TDoc | [S4-251495](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251495.zip) |
| Title | [FS\_Beyond2D] pCR on evaluation results for scenario 2 |
| Source | InterDigital France R&D, SAS |
| Contact | Ralf Schaefer |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | [S4-251495 Scenario 2 Evaluation R1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251495%20Scenario%202%20Evaluation%20R1.docx) |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251288](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251288.zip) |
| Title | [FS\_Beyond2D] pCR on corrections and completion in annexes for scenario 2 |
| Source | InterDigital France R&D, SAS |
| Contact | Ralf Schaefer |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7965910.2507c)  [Ralf Schaefer on Mon, 21 Jul 2025 13:06:56 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;377da29.2507c)  [Gilles Teniou on Tue, 22 Jul 2025 11:11:53 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3c615f84.2507d) |
| Revisions | [S4-251288 Scenario 2 Update Annexes - R1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251288%20Scenario%202%20Update%20Annexes%20-%20R1.docx)  [S4-251288 Scenario 2 Update Annexes - R2.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251288%20Scenario%202%20Update%20Annexes%20-%20R2.docx) |
| Minutes | Revision is needed and agreed. |
| Disposition | R01 is agreed. Revision is needed. |
| Status | **revised to S4-251496** |

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| TDoc | [S4-251496](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251496.zip) |
| Title | [FS\_Beyond2D] pCR on corrections and completion in annexes for scenario 2 |
| Source | InterDigital France R&D, SAS |
| Contact | Ralf Schaefer |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | [S4-251496 Scenario 2 Update Annexes - R1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251496%20Scenario%202%20Update%20Annexes%20-%20R1.docx) |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251289](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251289.zip) |
| Title | [FS\_Beyond2D] pCR on corrections and completion in clause 7 for scenario 2 |
| Source | InterDigital France R&D, SAS |
| Contact | Ralf Schaefer |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d23c1dcb.2507c)  [Ralf Schaefer on Tue, 22 Jul 2025 09:35:16 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;4fec7731.2507d)  [Gilles Teniou on Tue, 22 Jul 2025 11:13:28 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f4dccb04.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 19:20:46 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3cc6917e.2507d)  [Ralf Schaefer on Tue, 22 Jul 2025 12:29:45 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;dbe63334.2507d) |
| Revisions | [S4-251289 Scenario 2 Update Clause 7 R1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251289%20Scenario%202%20Update%20Clause%207%20R1.docx)  [S4-251289 Scenario 2 Update Clause 7 R2.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251289%20Scenario%202%20Update%20Clause%207%20R2.docx) |
| Minutes | R02 is the same version as the original one. |
| Disposition | R02 is agreed. But as it is the original one, we can agree the original version. |
| Status | agreed |

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| TDoc | [S4-251291](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251291.zip) |
| Title | [FS\_Beyond2D] pCR on gaps, conclusion and next steps for scenario 2 |
| Source | InterDigital France R&D, SAS |
| Contact | Ralf Schaefer |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d41cb2fb.2507c) |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | merged |

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| TDoc | [S4-251293](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251293.zip) |
| Title | [FS\_Beyond2D] pCR on complementary evaluation results for scenario 2 |
| Source | InterDigital France R&D, SAS |
| Contact | Ralf Schaefer |
| Agenda Item | 9.6 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | withdrawn |

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| TDoc | [S4-251318](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251318.zip) |
| Title | [FS\_Beyond2D] Gaussian Splats in glTF |
| Source | Qualcomm Incorporated |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9a0049a7.2507c)  [Gaëlle Martin-Cocher on Mon, 21 Jul 2025 15:24:58 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f890f2f9.2507c)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 14:49:53 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;28d7a92a.2507d)  [Thomas Stockhammer on Tue, 22 Jul 2025 09:12:08 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f79fceb5.2507d) |
| Revisions | [S4-251318-26956-pcr-Gaussian-Splats-IDC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251318-26956-pcr-Gaussian-Splats-IDC.docx)  [S4-251318r01.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251318r01.docx) |
| Minutes | Thomas presented r01:   * Missed one of the comments. Also addressed the same way * Jiayi: Can we reference the document?   + Thomas see no reason not to   + Gaelle: under liaison process you can access the content   + Gilles: Generally liaison works.   + Thomas : asking for co-signers     - Gaelle : Interdigital will co-sign |
| Disposition | R01 is agreeable with the comments above. Revision is needed |
| Status | **revised to S4-251476** |

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| TDoc | [S4-251476](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251476.zip) |
| Title | [FS\_Beyond2D] Gaussian Splats in glTF |
| Source | Qualcomm Incorporated, Interdigital |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251319](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251319.zip) |
| Title | [FS\_Beyond2D] Draft Conclusions |
| Source | Qualcomm Incorporated |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.6 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | **revised to S4-251383** |

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| TDoc | [S4-251320](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251320.zip) |
| Title | [FS\_Beyond2D] pCR on Evaluation Results for the Scenario 1 |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;1c9e4609.2507c)  [Gilles Teniou on Tue, 22 Jul 2025 11:04:55 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d865a4d8.2507d) |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251321](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251321.zip) |
| Title | [FS\_Beyond2D] Gaps and Optimization Potential |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;bdcf6b69.2507c)  [Ralf Schaefer on Fri, 18 Jul 2025 07:41:14 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;781fd145.2507c)  [Kroon, Bart on Fri, 18 Jul 2025 12:28:12 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;138789c2.2507c)  [Thomas Stockhammer on Mon, 21 Jul 2025 08:01:08 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d797bbe3.2507c)  [Kroon, Bart on Mon, 21 Jul 2025 08:17:13 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7a6410b3.2507c)  [Ralf Schaefer on Mon, 21 Jul 2025 08:37:25 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;1dd1a46f.2507c)  [Ralf Schaefer on Mon, 21 Jul 2025 10:26:09 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;173d87da.2507c)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 11:31:41 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;221aa08f.2507d)  [Ralf Schaefer on Tue, 22 Jul 2025 07:13:11 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7be7304e.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 17:41:17 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6d1db23c.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 17:59:47 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;37eb3704.2507d) |
| Revisions | [S4-251321\_Gaps\_and\_Optimization IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251321_Gaps_and_Optimization%20IDCC.docx)  [S4-251321\_Gaps\_and\_Optimization\_IDCC\_PH.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251321_Gaps_and_Optimization_IDCC_PH.docx)  [S4-251321\_Gaps\_and\_Optimization\_IDCC\_PH\_QCOM.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251321_Gaps_and_Optimization_IDCC_PH_QCOM.docx)  [S4-251321\_Gaps\_and\_Optimization\_IDCC\_PH\_QCOM\_PH\_IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251321_Gaps_and_Optimization_IDCC_PH_QCOM_PH_IDCC.docx)  [S4-251321\_Gaps\_and\_Optimization\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251321_Gaps_and_Optimization_r1.docx)  [S4-251321\_Gaps\_and\_Optimization\_r2.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251321_Gaps_and_Optimization_r2.docx) |
| Minutes | * Jiayi presents r02 |
| Disposition |  |
| Status | **revised to S4-251532** |

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| TDoc | [S4-251532](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251532.zip) |
| Title | [FS\_Beyond2D] Gaps and Optimization Potential |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251322](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251322.zip) |
| Title | [FS\_Beyond2D] DRAFT Conclusions and Proposed Next Steps |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6d78b66.2507c)  [Ralf Schaefer on Fri, 18 Jul 2025 07:46:57 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b061a714.2507c)  [Serhan Guel (Nokia) on Fri, 18 Jul 2025 08:50:31 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;fda99345.2507c) |
| Revisions | [S4-251322-Conclusion IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251322-Conclusion%20IDCC.docx)  [S4-251322\_IDCC\_NOK.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251322_IDCC_NOK.docx) |
| Minutes |  |
| Disposition |  |
| Status | merged into 1383 |

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| TDoc | [S4-251323](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251323.zip) |
| Title | [FS\_Beyond2D] TR 26.956 V1.1.0 |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;aef9cbbd.2507c)  [Gilles Teniou on Tue, 22 Jul 2025 10:57:43 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9b4e12b8.2507d) |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | **revised to S4-251493** |

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| TDoc | [S4-251324](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251324.zip) |
| Title | [FS\_Beyond2D]Permenant Document v1.0.0 |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;aea733a2.2507c)  [Gilles Teniou on Tue, 22 Jul 2025 11:01:21 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;22988000.2507d) |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251325](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251325.zip) |
| Title | [FS\_Beyond2D]Cover Page of TR 26.956 |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;186809ba.2507c)  [Ralf Schaefer on Mon, 21 Jul 2025 13:58:29 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;263de80e.2507c)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 19:55:36 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8881d770.2507d)  [Ralf Schaefer on Tue, 22 Jul 2025 13:03:12 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;852d016d.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 21:11:31 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;4cb9b4de.2507d)  [Ralf Schaefer on Tue, 22 Jul 2025 13:21:32 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;40a0b104.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 21:25:31 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ce1736e.2507d)  [Kroon, Bart on Tue, 22 Jul 2025 13:56:54 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;1d19a248.2507d)  [许珈艺（Xu Jiayi） on Wed, 23 Jul 2025 12:02:36 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;373ce1ef.2507d)  [Ralf Schaefer on Wed, 23 Jul 2025 08:22:20 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5d383d00.2507d)  [Kroon, Bart on Wed, 23 Jul 2025 09:18:26 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e02794db.2507d) |
| Revisions | [S4-251325 IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251325%20IDCC.docx)  [S4-251325\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251325_r1.docx)  [S4-251325\_r1\_IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251325_r1_IDCC.docx)  [S4-251325\_r2.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251325_r2.docx)  [S4-251325\_r2\_IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251325_r2_IDCC.docx)  [S4-251325\_r2\_IDCC\_PH.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251325_r2_IDCC_PH.docx) |
| Minutes | * Jiayi presents r01 with IDCC comments * Rajan : It is not clear if following work will be SID or WID   + Gilles : no need to clearly identify * Serhan : Why is there a recommendation on stereoscopic capturing systems in the abstract?   + Thomas : a study is always fine. Why don’t we do it? Audio does it. * Thomas : bandwidth optimization ? What is exactly meant here ? Are we looking into compression?   + Jiayi : we want to look at other network protocols for efficient delivery of dynamic mesh, for instance.   + Gilles : this is the abstract section of the TR. It should not be a place to bring conclusions or go into details. * Gilles : recommendation is to make abstract simpler and general.   07/23 call   * Jiayi presents r02 with comments from Interdigital and Philips |
| Disposition | Email discussion until 07/23 |
| Status | **revised to S4-251492** |

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| TDoc | [S4-251492](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251492.zip) |
| Title | [FS\_Beyond2D]Cover Page of TR 26.956 |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251383](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251383.zip) |
| Title | [FS\_Beyond2D] Draft Conclusions and Recommendations |
| Source | Qualcomm Incorporated, Tencent |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9325296f.2507c)  [Ralf Schaefer on Fri, 18 Jul 2025 07:38:45 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;fb18dd08.2507c)  [Serhan Guel (Nokia) on Fri, 18 Jul 2025 08:33:34 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5169fc95.2507c)  [Kroon, Bart on Fri, 18 Jul 2025 11:43:53 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e5d4740.2507c)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 16:03:06 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;62ed24bf.2507d)  [Kroon, Bart on Tue, 22 Jul 2025 08:35:14 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5c7e4d32.2507d)  [Ralf Schaefer on Tue, 22 Jul 2025 09:03:08 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2c879f4.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 17:47:00 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;bf54ccca.2507d)  [Thomas Stockhammer on Tue, 22 Jul 2025 09:48:37 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;1efbffec.2507d)  [Thomas Stockhammer on Tue, 22 Jul 2025 09:50:03 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;634115f2.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 18:38:33 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;181a0e57.2507d)  [Ralf Schaefer on Tue, 22 Jul 2025 12:02:50 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;45035ee7.2507d)  [Thomas Stockhammer on Tue, 22 Jul 2025 12:12:33 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;4d8283a7.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 20:22:43 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;55bb9067.2507d)  [Thomas Stockhammer on Tue, 22 Jul 2025 12:40:32 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;66c9ea3d.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 20:44:35 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;61c699e5.2507d)  [Thomas Stockhammer on Tue, 22 Jul 2025 12:48:13 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e587d798.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 20:54:27 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3b44abbd.2507d)  [Serhan Guel (Nokia) on Tue, 22 Jul 2025 12:58:11 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3f651aa.2507d)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 21:02:05 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9ca8d91f.2507d)  [许珈艺（Xu Jiayi） on Wed, 23 Jul 2025 16:40:51 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;16c19cf7.2507d)  [Kroon, Bart on Wed, 23 Jul 2025 09:20:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;26756496.2507d)  [Thomas Stockhammer on Wed, 23 Jul 2025 09:36:51 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;a85186dd.2507d)  [Ralf Schaefer on Wed, 23 Jul 2025 09:47:07 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e4471225.2507d)  [Thomas Stockhammer on Wed, 23 Jul 2025 09:59:08 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;29c1112c.2507d)  [Thomas Stockhammer on Wed, 23 Jul 2025 10:16:14 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;df33cdb4.2507d) |
| Revisions | [S4-251383-26956-pcr-rev1-Conclusions IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383-26956-pcr-rev1-Conclusions%20IDCC.docx)  [S4-251383\_IDCC\_NOK.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383_IDCC_NOK.docx)  [S4-251383\_IDCC\_NOK\_PH.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383_IDCC_NOK_PH.docx)  [S4-251383\_IDCC\_NOK\_PH2\_CMCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383_IDCC_NOK_PH2_CMCC.docx)  [S4-251383\_IDCC\_NOK\_PH2\_CMCC\_IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383_IDCC_NOK_PH2_CMCC_IDCC.docx)  [S4-251383\_IDCC\_NOK\_PH2\_CMCC\_PH\_IDCC\_CMCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383_IDCC_NOK_PH2_CMCC_PH_IDCC_CMCC.docx)  [S4-251383r01\_CMCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383r01_CMCC.docx)  [S4-251383r01\_CMCC\_IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383r01_CMCC_IDCC.docx)  [S4-251383r02.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383r02.docx)  [S4-251383r02-GT.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383r02-GT.docx)  [S4-251383r02\_CMCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383r02_CMCC.docx)  [S4-251383r02\_CMCC\_PH.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383r02_CMCC_PH.docx)  [S4-251383r03.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383r03.docx)  [S4-251383r04\_IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383r04_IDCC.docx)  [S4-251383r06.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383r06.docx)  [S4-251383r06-GT.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251383r06-GT.docx) |
| Minutes | * Thomas presents r02 * Jiayi : update section on 6G Immersive communications and defer it to a subsequent 6G study. * Ralf, Serhan : asking 6G immersive communication clause to be moved to a different section   + Thomas : more editorial work is needed on the integration of this. * Ralf : communication means real-time and this has not been addressed in this report yet.   07/23 call   * Thomas presents r06 * Jiayi : Disagreement on the final recommendation * Gilles : the recommendation does not ensure there will be a follow-up study. It only recognizes some elements are for further study * Alexis : addition of a note regarding privacy issues |
| Disposition | Revised and agreed |
| Status | **revised to S4-251524** |

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| TDoc | [S4-251524](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251524.zip) |
| Title | [FS\_Beyond2D] Conclusions and Recommendations |
| Source | Qualcomm Incorporated, Tencent, CMCC, Interdigital, Philips International B.V. |
| Contact | Thomas Stockhammer |
| Agenda Item | 9.6 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251389](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251389.zip) |
| Title | [FS\_Beyond2D] Terms and Abbreviations |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;44222b1a.2507c)  [Serhan Guel (Nokia) on Fri, 18 Jul 2025 07:25:12 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e36a5864.2507c)  [Ralf Schaefer on Fri, 18 Jul 2025 17:46:40 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;a1fe29b0.2507c)  [许珈艺（Xu Jiayi） on Tue, 22 Jul 2025 18:10:05 +0800](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3dbd3190.2507d) |
| Revisions | [S4-251389\_NOK.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251389_NOK.docx)  [S4-251389\_NOK\_IDCC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251389_NOK_IDCC.docx)  [S4-251389\_r1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251389_r1.docx) |
| Minutes | July 22: r1 presented and agreed |
| Disposition | Needs revision. Revision is agreed |
| Status | **revised to S4-251491** |

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| TDoc | [S4-251491](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251491.zip) |
| Title | [FS\_Beyond2D] Terms and Abbreviations |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251493](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251493.zip) |
| Title | [FS\_Beyond2D] TR 26.956 V1.1.0 |
| Source | China Mobile (Hangzhou) Inf. |
| Contact | Jiayi Xu |
| Agenda Item | 9.6 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | Plenary |

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

WID: [SP-240677](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_103_Maastricht_2024-03/Docs/SP-240677.zip) New SID on Spatial Computing for AR Services

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| TDoc | [S4-251287](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251287.zip) |
| Title | [FS\_ARSpatial] pCR on mapping of spatial computing to 5G services |
| Source | Nokia |
| Contact | Serhan Gül |
| Agenda Item | 9.7 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;66987350.2507c)  [Ahmed Hamza on Tue, 22 Jul 2025 08:07:44 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9e09fdbf.2507d)  [Serhan Guel (Nokia) on Tue, 22 Jul 2025 09:54:16 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6ec46744.2507d)  [Serhan Guel (Nokia) on Tue, 22 Jul 2025 12:03:39 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;780cd6b9.2507d)  [Serhan Guel (Nokia) on Tue, 22 Jul 2025 21:54:08 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6e746df9.2507d)  [Ahmed Hamza on Wed, 23 Jul 2025 06:11:28 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;1cf98982.2507d)  [Serhan Guel (Nokia) on Wed, 23 Jul 2025 06:52:05 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ee8a4752.2507d) |
| Revisions | [S4-251287r01.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251287r01.docx)  [S4-251287r02.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251287r02.docx)  [S4-251287r03.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251287r03.docx) |
| Minutes | * Serhan presents r01 * Ahmed : unclear what is the link between the application and the spatial computing function. Does it go through the XR runtime? How? * Imed : How does the app control orphan blocks such as MAF, Session handler, …   + Serhan : they are not orphan blocks, they are part of the UE   07/23   * Serhan presents r03 * Gilles : let’s go for agreement. Comments may come online (preferrably) or during plenary. * Thomas : fine if there is note saying that there will be opportunities to comment or revise before/during plenary |
| Disposition | Revised and agreed with a note |
| Status | **revised to S4-251526** |

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| TDoc | [S4-251526](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251526.zip) |
| Title | [FS\_ARSpatial] pCR on mapping of spatial computing to 5G services |
| Source | Nokia |
| Contact | Serhan Gül |
| Agenda Item | 9.7 |
| E-mail Discussion |  |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251353](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251353.zip) |
| Title | [FS\_ARSpatial] pCR on spatial computing functions |
| Source | Nokia |
| Contact | Serhan Gül |
| Agenda Item | 9.7 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d59e9d82.2507c)  [Ahmed Hamza on Tue, 22 Jul 2025 07:14:30 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;825187c9.2507d)  [Serhan Guel (Nokia) on Tue, 22 Jul 2025 10:41:46 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e7bab8db.2507d) |
| Revisions | [S4-251353r01.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251353r01.docx)  [S4-251353r02.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251353r02.docx) |
| Minutes | * Serhan presents r01 * Serhan presents r02 * Thomas : references to ™ and hanging paragraphs. This requires fixing. |
| Disposition | R02 (after fixing) is revised to 1488 and agreed |
| Status | **revised to S4-251488** |

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| TDoc | [S4-251488](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251488.zip) |
| Title | [FS\_ARSpatial] pCR on spatial computing functions |
| Source | Nokia |
| Contact | Serhan Gül |
| Agenda Item | 9.7 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251410](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251410.zip) |
| Title | [FS\_ARSpatial] pCR on Conclusions and Proposed Next Steps |
| Source | InterDigital Canada |
| Contact | Ahmed Hamza |
| Agenda Item | 9.7 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;833ef38d.2507c)  [Imed Bouazizi on Mon, 21 Jul 2025 06:13:32 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;36f69f8f.2507c)  [Ahmed Hamza on Tue, 22 Jul 2025 06:05:43 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b5a3913.2507d)  [Serhan Guel (Nokia) on Tue, 22 Jul 2025 11:53:11 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5fee329a.2507d)  [Imed Bouazizi on Wed, 23 Jul 2025 04:03:32 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;890a5e17.2507d)  [Serhan Guel (Nokia) on Wed, 23 Jul 2025 05:27:38 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c4a7e9ce.2507d)  [Ahmed Hamza on Wed, 23 Jul 2025 13:50:56 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3cbfc74b.2507d)  [Serhan Guel (Nokia) on Wed, 23 Jul 2025 14:27:03 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;85c9aa65.2507d) |
| Revisions | [S4-251410 - [FS\_ARSpatial] pCR on Conclusions\_QCOM.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251410%20-%20%5BFS_ARSpatial%5D%20pCR%20on%20Conclusions_QCOM.docx)  [S4-251410\_r01.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Inbox/Drafts/Video/S4-251410_r01.docx) |
| Minutes | * Ahmed presents * Thomas : the summary has no reference into the rest of the TR   + Ahmed : could be fixed editorially * Gilles : referencing other work items in a TR is irrelevant and should be fixed.   07/23 call   * Ahmed presents r01 * Thomas : there may be comments during plenary |
| Disposition | Revised and agreed |
| Status | **revised to S4-251530** |

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| TDoc | [S4-251530](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251530.zip) |
| Title | [FS\_ARSpatial] pCR on Conclusions and Proposed Next Steps |
| Source | InterDigital Canada |
| Contact | Ahmed Hamza |
| Agenda Item | 9.7 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | agreed |

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| TDoc | [S4-251416](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251416.zip) |
| Title | [FS\_ARSpatial] pCR on Image References |
| Source | InterDigital Canada |
| Contact | Ahmed Hamza |
| Agenda Item | 9.7 |
| E-mail Discussion | [Gilles Teniou on Fri, 18 Jul 2025 07:01:00 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;39fbc075.2507c)  [Gilles Teniou on Tue, 22 Jul 2025 11:35:01 +0000](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7ad7c37a.2507d) |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | available |

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| TDoc | [S4-251531](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251531.zip) |
| Title | [FS\_ARSpatial] Cover Page for TR 26.819 v2.0.0 |
| Source | InterDigital Canada |
| Contact | Ahmed Hamza |
| Agenda Item | 9.7 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | Plenary |

|  |  |
| --- | --- |
| TDoc | [S4-251545](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251545.zip) |
| Title | Draft TR 26.819 v1.1.0 |
| Source | InterDigital Canada |
| Contact | Ahmed Hamza |
| Agenda Item | 9.7 |
| E-mail Discussion | No e-mail discussion. |
| Revisions | No revisions available. |
| Minutes |  |
| Disposition |  |
| Status | Plenary |

## 9.8 Other Rel-19 matters including TEI

None

## 9.9 Any Other Business

### 9.9.1 Contributions

No documents.

### 9.9.2 Report

The report will be made available in S4-251445

### 9.9.3 Summary from Offline Discussions

### 9.9.4 Output documents

|  |  |  |
| --- | --- | --- |
| A.I.# | Agenda Item | Tdoc # |
| 12 | Reports and general issues from sub-working-groups |  |
| 12.3 | Video SWG | 1445 |
| 14 | Release 19 Features |  |
| 14.4 | VOPS (Video Operating Points - Harmonization and Stereo MV-HEVC) | 26.265: 1516, 1522, 1523(cp)26.511: 134126.143: 1518PD: 1521TP: 1342Progress: 90% -> xx% (12/25) |
| 15 | Study Items |  |
| 15.2 | FS\_Beyond2D (Study on Beyond 2D Video) | 26.956: 1493, 1492(cp)Progress: 70% -> xx% (09/25) |
| 15.3 | FS\_ARSpatial (Study on Spatial Computing for AR Services) | 26.956: 1493, 1492(cp)Progress: 85% -> xx% (09/25) |

### 9.9.5 AHG Telcos

|  |  |  |
| --- | --- | --- |
| ✔ or ✘ |  |  |
| VOPS | TBD, see closing plenary |  |

## 9.10 Close of the session

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

The session was closed on July 23, 2025 at 18:05 CEST.

# **VIDEO SWG Participants list (46 participants)**

|  |  |  |
| --- | --- | --- |
| **NAME** | **LASTNAME** | **COMPANY** |
| Waqar | **ZIA** | **Apple** |
| Alexis | **TOURAPIS** | **Apple** |
| Jiayi | **XU** | **CMCC** |
| Fei | **GAO** | **CMCC** |
| Frédéric | **GABIN** | **Dolby** |
| Brian | **LEE** | **Dolby** |
| Iraj | **SODAGAR** | **Dolby** |
| Simon | **GAUNTLETT** | **Dolby** |
| Mauricio | **ARACENA** | **Ericsson** |
| Lukasz | **Litwic** | **Ericsson** |
| Gerhard | **TECH** | **Fraunhofer HHI** |
| Rufael | **Mekuria** | **Huawei** |
| Gaëlle | **MARTIN-COCHER** | **InterDigital** |
| Ahmed | **HAMZA** | **InterDigital** |
| Stéphane | **ONNO** | **InterDigital** |
| Philippe | **GUILLOTEL** | **InterDigital** |
| Ralf | **SCHAEFER** | **InterDigital** |
| Woosuk | **KWON** | **LGE** |
| Jeeyoung | **KIM** | **LGE** |
| Andrijana | **brekalo** | **MCC** |
| Lulin | **Chen** | **MediaTek** |
| Saba | **AHSAN** | **Nokia** |
| Gazi Karam | **ILLAHI** | **Nokia** |
| Shane | **HE** | **Nokia** |
| Serhan | **GÜL** | **Nokia** |
| Daniel | **VENMANI** | **Nokia** |
| Julien | **LEMOTHEUX** | **Orange** |
| Chaofan | **HE** | **Pengcheng Labs** |
| Bart | **Kroon** | **Philips** |
| Marta | **MILOVANOVIC** | **Philips** |
| Thomas | **STOCKHAMMER** | **Qualcomm** |
| Imed | **bouazizi** | **Qualcomm** |
| Aytac | **BIBER** | **Qualcomm** |
| Shilin | **DING** | **Qualcomm** |
| Jaeyeon | **SONG** | **Samsung** |
| Eric | **YIP** | **Samsung** |
| Rajan Laxman | **JOSHI** | **Samsung** |
| Prakash Reddy | **KOLAN** | **Samsung** |
| Paul | **SZUCS** | **Sony** |
| Gilles | **teniou** | **Tencent** |
| Julien | **RICARD** | **Tencent** |
| Elmira | **RAMAZANIREND** | **Vodafone** |
| Mary-Luc | **CHAMPEL** | **Xiaomi** |
| Emmanuel | **THOMAS** | **Xiaomi** |
| Emmanouil | **POTETSANIAKIS** | **Xiaomi** |
| Robert | **EDWARDS** | **??? (not registered)** |

The SA4 VIDEO SWG email reflector has **174** subscribers.

# Annex A - The documents status (58 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\*** |
| [S4-251216](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251216.zip) | VOPS Permanent Document for conformance work v0.2.0 | Xiaomi Technology (Polska) sp. | 9.5 |  | agreed |  |
| [S4-251263](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251263.zip) | [FS\_Beyond2D] pCR on Annex F Data management and hosting | Philips International B.V. | 9.6 |  | agreed |  |
| [S4-251289](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251289.zip) | [FS\_Beyond2D] pCR on corrections and completion in clause 7 for scenario 2 | InterDigital France R&D, SAS | 9.6 |  | agreed |  |
| [S4-251320](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251320.zip) | [FS\_Beyond2D] pCR on Evaluation Results for the Scenario 1 | China Mobile (Hangzhou) Inf. | 9.6 |  | agreed |  |
| [S4-251323](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251323.zip) | [FS\_Beyond2D] TR 26.956 V1.1.0 | China Mobile (Hangzhou) Inf. | 9.6 |  | agreed |  |
| [S4-251324](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251324.zip) | [FS\_Beyond2D]Permenant Document v1.0.0 | China Mobile (Hangzhou) Inf. | 9.6 |  | agreed |  |
| [S4-251337](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251337.zip) | [VOPS] On Conformance bitstreams | Apple Inc. | 9.5 |  | agreed |  |
| [S4-251380](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251380.zip) | [VOPS] Updates to TS 26.265 | Qualcomm Incorporated | 9.5 |  | agreed |  |
| [S4-251399](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251399.zip) | [VOPS] pCR on Coded Video Layer in system integration | Xiaomi Technology (Polska) sp. | 9.5 |  | agreed |  |
| [S4-251416](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251416.zip) | [FS\_ARSpatial] pCR on Image References | InterDigital Canada | 9.7 |  | agreed |  |
| [S4-251460](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251460.zip) | [VOPS] Update on bitstream validation software | Xiaomi Technology (Polska) sp. | 9.5 |  | agreed |  |
| [S4-251476](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251476.zip) | [FS\_Beyond2D] Gaussian Splats in glTF | Qualcomm Incorporated, Interdigital | 9.6 |  | agreed |  |
| [S4-251488](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251488.zip) | [FS\_ARSpatial] pCR on spatial computing functions | Nokia | 9.7 |  | agreed |  |
| S4-251491 | [FS\_Beyond2D] Terms and Abbreviations | China Mobile (Hangzhou) Inf. | 9.6 |  | agreed |  |
| S4-251495 | [FS\_Beyond2D] pCR on evaluation results for scenario 2 | InterDigital France R&D, SAS | 9.6 |  | agreed |  |
| S4-251496 | [FS\_Beyond2D] pCR on corrections and completion in annexes for scenario 2 | InterDigital France R&D, SAS | 9.6 |  | agreed |  |
| S4-251514 | [VOPS] On Multiview profiles | Apple Inc., Samsung | 9.5 |  | agreed |  |
| S4-251515 | [VOPS] On stereo codecs parameter strings | Apple Inc. | 9.5 |  | agreed |  |
| S4-251519 | [VOPS] On Random Access Points | Apple Inc. | 9.5 |  | agreed |  |
| S4-251520 | [VOPS] pCR on Clarifications of bitstream constraints rules | Xiaomi Technology (Polska) sp. | 9.5 |  | agreed |  |
| [S4-251524](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251524.zip) | [FS\_Beyond2D] Conclusions and Recommendations | Qualcomm Incorporated, Tencent, CMCC, Interdigital, Philips International B.V. | 9.6 |  | agreed |  |
| S4-251526 | [FS\_ARSpatial] pCR on mapping of spatial computing to 5G services | Nokia | 9.7 |  | agreed |  |
| S4-251530 | [FS\_ARSpatial] pCR on Conclusions and Proposed Next Steps | InterDigital Canada | 9.7 |  | agreed |  |
| S4-251532 | [FS\_Beyond2D] Gaps and Optimization Potential | China Mobile (Hangzhou) Inf. | 9.6 |  | 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\*** |
| S4-251341 | [VOPS] Updates for MV-HEVC | Apple Inc., Qualcomm Incorporated, Tencent | 9.5 |  | agreed | 14.4 |
| S4-251492 | [FS\_Beyond2D]Cover Page of TR 26.956 | China Mobile (Hangzhou) Inf. | 9.6 |  | agreed | 15.2 |
| S4-251518 | [VOPS] On video coding capabilities and operating points | 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\*** |
| [S4-251286](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251286.zip) | [FS\_Beyond2D] pCR on evaluation results for scenario 2 | InterDigital France R&D, SAS | 9.6 | S4-251495 | revised |  |
| [S4-251287](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251287.zip) | [FS\_ARSpatial] pCR on mapping of spatial computing to 5G services | Nokia | 9.7 | S4-251526 | revised |  |
| [S4-251288](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251288.zip) | [FS\_Beyond2D] pCR on corrections and completion in annexes for scenario 2 | InterDigital France R&D, SAS | 9.6 | S4-251296 | revised |  |
| [S4-251291](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251291.zip) | [FS\_Beyond2D] pCR on gaps, conclusion and next steps for scenario 2 | InterDigital France R&D, SAS | 9.6 | S4-251524 | merged |  |
| S4-251293 | [FS\_Beyond2D] pCR on complementary evaluation results for scenario 2 | InterDigital France R&D, SAS | 9.6 |  | withdrawn |  |
| [S4-251318](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251318.zip) | [FS\_Beyond2D] Gaussian Splats in glTF | Qualcomm Incorporated | 9.6 | S4-251476 | revised |  |
| [S4-251319](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251319.zip) | [FS\_Beyond2D] Draft Conclusions | Qualcomm Incorporated | 9.6 | S4-251383 | revised |  |
| [S4-251321](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251321.zip) | [FS\_Beyond2D] Gaps and Optimization Potential | China Mobile (Hangzhou) Inf. | 9.6 | S4-251532 | revised |  |
| [S4-251322](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251322.zip) | [FS\_Beyond2D] DRAFT Conclusions and Proposed Next Steps | China Mobile (Hangzhou) Inf. | 9.6 | S4-251524 | merged |  |
| [S4-251325](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251325.zip) | [FS\_Beyond2D]Cover Page of TR 26.956 | China Mobile (Hangzhou) Inf. | 9.6 | S4-251492 | revised |  |
| [S4-251334](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251334.zip) | [VOPS] On Multiview profiles | Apple Inc., Samsung | 9.5 | S4-251514 | revised |  |
| [S4-251335](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251335.zip) | [VOPS] On Random Access Points | Apple Inc. | 9.5 | S4-251519 | revised |  |
| [S4-251336](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251336.zip) | [VOPS] On Multiview features | Apple Inc. | 9.5 | S4-251516 | revised |  |
| [S4-251338](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251338.zip) | [VOPS] On stereo codecs parameter strings | Apple Inc. | 9.5 | S4-251515 | revised |  |
| [S4-251339](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251339.zip) | [VOPS] Misc corrections | Apple Inc. | 9.5 | S4-251516 | merged |  |
| [S4-251340](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251340.zip) | [VOPS] On video coding capabilities and operating points | Apple Inc. | 9.5 | S4-251518 | revised |  |
| [S4-251353](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251353.zip) | [FS\_ARSpatial] pCR on spatial computing functions | Nokia | 9.7 | S4-241488 | revised |  |
| [S4-251383](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251383.zip) | [FS\_Beyond2D] Draft Conclusions and Recommendations | Qualcomm Incorporated, Tencent | 9.6 | S4-251524 | revised |  |
| [S4-251389](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251389.zip) | [FS\_Beyond2D] Terms and Abbreviations | China Mobile (Hangzhou) Inf. | 9.6 | S4-251491 | revised |  |
| [S4-251398](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251398.zip) | [VOPS] pCR on Clarifications of bitstream constraints rules | Xiaomi Technology (Polska) sp. | 9.5 | S4-251520 | revised |  |
| [S4-251409](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251409.zip) | [VOPS] Update on bitstream validation software | Xiaomi Technology (Polska) sp. | 9.5 | S4-251460 | revised |  |
| [S4-251410](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_133-e/Docs/S4-251410.zip) | [FS\_ARSpatial] pCR on Conclusions and Proposed Next Steps | InterDigital Canada | 9.7 | S4-251530 | 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\*** |
| S4-251342 | [VOPS] Work Plan | Apple Inc. | 9.5 |  | - | 14.4 |
| S4-251445 | VIDEO SWG report during SA4#133-e | VIDEO SWG Chair (Tencent) | - |  | - | 12.3 |
| S4-251493 | [FS\_Beyond2D] TR 26.956 V1.1.0 | China Mobile (Hangzhou) Inf. | 9.6 |  | - | 15.2 |
| S4-251516 | [VOPS] On Multiview features | Apple Inc. | 9.5 |  | - | 14.4 |
| S4-251521 | VOPS Permanent Document for conformance work v1.0.0 | Xiaomi Technology (Polska) sp. | 9.5 |  | - | 14.4 |
| S4-251522 | TS 26.265 v1.3.0 | Qualcomm Incorporated | 9.5 |  | - | 14.4 |
| S4-251523 | Draft Cover Page for TS 26.265 v2.0.0 | Qualcomm Incorporated | 9.5 |  | - | 14.4 |
| S4-251531 | [FS\_ARSpatial] Cover Page for TR 26.819 v1.1.0 | InterDigital Canada | 9.7 |  | - | 15.3 |
| S4-251545 | Draft TR 26.819 v1.1.0 | InterDigital Canada | 9.7 |  | - | 15.3 |

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