Video SWG Minutes during SA4#112e

## 10.1 Opening of the session

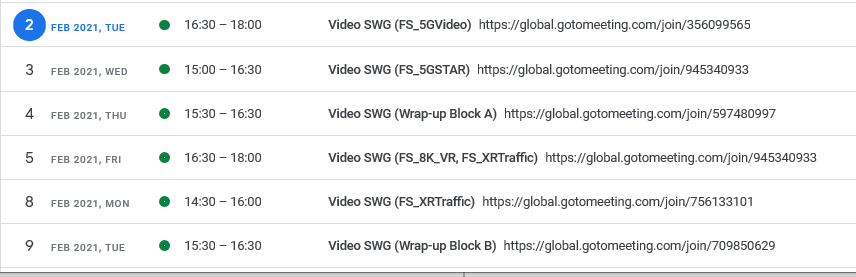
Mr. Gilles Teniou (Tencent, Chairman of Video SWG) opens Video SWG on February 2, 2021 at 1630 CET.

E-mail discussion started already on Mon, 1 Feb 2021 08:07:27 +0000

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| [VIDEO SWG SA4#112-e meeting - Start of Block A](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=78) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:07:27 +0000 |

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| [VIDEO SWG SA4#112-e meeting - Start of Block B](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=95778) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:24:31 +0000 |

**Schedule:**



Mr. Thomas Stockhammer (Qualcomm) is assigned as scribe.

The minutes are shared [online](https://docs.google.com/document/d/1UJeNT-tI5nIFXxEIQnwZi3szenjs_pHvuwsP9AwOFEs/edit?usp=sharing).

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

* <https://list.etsi.org/scripts/wa.exe?A1=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO>
* https://list.etsi.org/scripts/wa.exe?A1=ind2102B&L=3GPP\_TSG\_SA\_WG4\_VIDEO

Latest Timestamp for e-mail discussions considered in the report: Tue, 9 Feb 2021 21:58:57 +0000

The agenda and the registration of documents are agreed.

## 10.2 Registration of documents

The following documents were registered before the meeting and assigned to Video SWG:

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| 10 | Video SWG | - |  |
| 10.1 | Opening of the session | A |  |
| 10.2 | Registration of documents | A |  |
| 10.3 | Reports and liaisons from other groups | A | 009 (VRIF) -> Video SWG |
| 10.4 | CRs to features in Release 16 and earlier | A |  |
| 10.5 | 8K\_VR\_5G (Operation Points for 8K VR 360 Video over 5G) | B | 027, 028, 029, 030, 059, 060 |
| 10.6 | FS\_VR\_CoGui (Feasibility Study on VR Streaming Conformance and Guidelines) | B |  |
| 10.7 | FS\_5GVideo (Feasibility Study on 5G Video Codec Characteristics) | A | 062->097, 063, 064, 067, 098, 105, 165, 168  061 (n/a), 065 (n/a), 066 (n/a), 131 (n/a) |
| 10.8 | FS\_XRTraffic (Feasibility Study on Typical Traffic Characteristics for XR Services and other Media) | B | 069, 070, 072, 073, 074, 121, 122, 125    068 (n/a), 071 (n/a) |
| 10.9 | FS\_5GSTAR (Feasibility Study on 5G Glass-type AR/MR Devices) | A | 014, 076, 077, 078, 110, 111, 112, 113, 114, 115, 124, 151, 173  ~~013~~ |
| 10.10 | New Work / New Work Items and Study Items | B |  |
| 10.11 | Liaisons and Liaison Responses | B | 086, 087, 075 |
| 10.12 | Any Other Business | B |  |
| 10.13 | Close of the session | B |  |

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| Number | Title | Source | Author | AI |
| [S4-210009](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210009.zip) | Reply to the LS on 8K VR 360 operation point and VRIF Guidelines 2.3 | 3GPP MCC | Jayeeta Saha | 10.3 |
| [S4-210027](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210027.zip) | 8K\_VR\_5G: Proposed Time Plan v.0.1.0 | Intel (Rapporteur) | Ozgur Oyman | 10.5 |
| [S4-210028](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210028.zip) | Operation Points for 8K VR 360 Video | Intel | Ozgur Oyman | 10.5 |
| [S4-210029](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210029.zip) | Decoding Capabilities and Operation Points for 8K VR 360 Video over 5GMS | Intel | Ozgur Oyman | 10.5 |
| [S4-210030](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210030.zip) | Proposed Way Forward for 8K Viewport-Independent Delivery | Intel | Ozgur Oyman | 10.5 |
| [S4-210059](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210059.zip) | Comments on draftCR for 8K\_VR | Qualcomm Incorporated | Thomas Stockhammer | 10.5 |
| [S4-210060](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210060.zip) | 8K Decoding Capabilities | Qualcomm Incorporated | Thomas Stockhammer | 10.5 |
| [S4-210061](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210061.zip) | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210062](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210062.zip) | TR26.955: Proposed Editor's Update | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210063](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210063.zip) | pCR26.955: Metrics | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210064](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210064.zip) | pCR26.955: Data Management | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| S4-210065 | pCR26.955: Proposed anchors for FullHD Streaming | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| S4-210066 | pCR26.955: Proposed anchors for Messaging and Social Sharing | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210067](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210067.zip) | pCR26.955: Reference Sequences | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210097](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210097.zip) | TR26.955: Proposed Editor's Update | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210098](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210098.zip) | 5GVideo-Anchor tuple Metrics | InterDigital France R&D, SAS | Gaelle Martin-Cocher | 10.7 |
| [S4-210105](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210105.zip) | [FS\_5GVideo] pCR26.955: Updated EVC verification test results | Samsung, Qualcomm | Rajan Joshi | 10.7 |
| [S4-210131](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210131.zip) | 4K-HDR Test Material Selection for FS\_5GVideo | ATEME, InterDigital, Ericsson | Thibaud Biatek | 10.7 |
| [S4-210165](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210165.zip) | Proposed updates on Gaming sequences description | Tencent, InterDigital | Gilles Teniou | 10.7 |
| [S4-210168](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210168.zip) | Proposed updates on Screen Content sequences description | Tencent, InterDigital | Gilles Teniou | 10.7 |
| [S4-210068](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210068.zip) | Proposed Updates to Work Plan for FS\_XRTraffic | Qualcomm Incorporated | Thomas Stockhammer | 10.8 |
| [S4-210069](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210069.zip) | [FS\_XRTraffic] Proposed Updated to Work Item Description | Qualcomm Incorporated | Thomas Stockhammer | 10.8 |
| [S4-210070](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210070.zip) | [FS\_XRTraffic] Proposed Annex to TR26.925 | Qualcomm Incorporated | Thomas Stockhammer | 10.8 |
| [S4-210071](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210071.zip) | [FS\_XRTraffic] Proposed Additional Traffic Models | Qualcomm Incorporated | Thomas Stockhammer | 10.8 |
| [S4-210072](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210072.zip) | [FS\_XRTraffic] Traffic Model Overview and Status | Qualcomm Incorporated | Thomas Stockhammer | 10.8 |
| [S4-210073](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210073.zip) | [FS\_XRTraffic] From Traces to Statisical Models | Qualcomm Incorporated | Thomas Stockhammer | 10.8 |
| [S4-210074](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210074.zip) | [FS\_XRTraffic] Proposed Quality Evaluation Framework | Qualcomm Incorporated | Thomas Stockhammer | 10.8 |
| [S4-210075](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210075.zip) | [FS\_XRTraffic] Proposed Reply LS to SA2 (S2-2009227) | Qualcomm Incorporated | Thomas Stockhammer | 10.11 |
| [S4-210121](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210121.zip) | Proposed Content Delivery Models and Quality Evaluation for VR1 | China Mobile Com. Corporation | Yujian Yin | 10.8 |
| [S4-210122](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210122.zip) | Quality Measurement Consideration for VR1 | China Mobile Com. Corporation | Yujian Yin | 10.8 |
| [S4-210125](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210125.zip) | [FS\_XRTraffic] Proposed Update to PD | Qualcomm CDMA Technologies | Thomas Stockhammer | 10.8 |
| S4-210013 | Proposed Architectures for AR Conversational | HiSilicon Technologies Co. Ltd | Yan Liu | 10.9 |
| [S4-210014](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210014.zip) | Editorial corrections of the use cases on AR Conversational | HiSilicon Technologies Co. Ltd | Yan Liu | 10.9 |
| [S4-210076](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210076.zip) | [FS\_5GSTAR] Device Names | Qualcomm Incorporated | Thomas Stockhammer | 10.9 |
| [S4-210077](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210077.zip) | [FS\_5GSTAR] Use Case to Architecture Mappings | Qualcomm Incorporated | Thomas Stockhammer | 10.9 |
| [S4-210078](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210078.zip) | [FS\_5GSTAR] OpenXR and Khronos | Qualcomm Incorporated | Thomas Stockhammer | 10.9 |
| [S4-210110](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210110.zip) | FS\_5GSTAR: Bidirectional media flows | Samsung Electronics Iberia SA | Eric Yip | 10.9 |
| [S4-210111](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210111.zip) | FS\_5GSTAR: Unidirectional media flow from server to UE | Samsung R&D Institute UK | Hakju Ryan Lee | 10.9 |
| [S4-210112](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210112.zip) | FS\_5GSTAR: Unidirectional media flow from UE to server | Samsung R&D Institute UK | Hakju Ryan Lee | 10.9 |
| [S4-210113](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210113.zip) | Draft TR 26.998 | Samsung R&D Institute UK | Hakju Ryan Lee | 10.9 |
| [S4-210114](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210114.zip) | FS\_5STAR: Permanent Document v0.2.0 | Samsung R&D Institute UK | Hakju Ryan Lee | 10.9 |
| [S4-210115](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210115.zip) | 5GSTAR: Proposed Updates to Work Plan | Samsung R&D Institute UK | Hakju Ryan Lee | 10.9 |
| [S4-210124](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210124.zip) | [5G\_STAR] pCR Proposed architecture for streaming volumetric video | Fraunhofer HHI | Yago Sanchez de la Fuente | 10.9 |
| [S4-210151](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210151.zip) | Gaps and architecture extensions for conversational AR services | Ericsson LM | Bo Burman | 10.9 |
| [S4-210173](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210173.zip) | [FS\_5GSTAR] pCR on Use case on AR IoT | Beijing Xiaomi Electronics | Mary-Luc Champel | 10.9 |
| [S4-210086](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210086.zip) | Discussion on LS on New Standardized 5QIs for 5G-AIS(S2-2009227) | Tencent | Yixue Lei | 10.11 |
| [S4-210087](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210087.zip) | Draft Reply LS to S2-2009227 | Tencent | Yixue Lei | 10.11 |

## 10.3 Reports and liaisons from other groups

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| [S4-210009](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210009.zip) | Reply to the LS on 8K VR 360 operation point and VRIF Guidelines 2.3 | 3GPP MCC | Jayeeta Saha |

**E-mail Discussion:**

None triggered

**Presenter: Ozgur Oyman (Intel)**

**Discussion:**

* Thomas: we should reply
  + Add decisions
  + Ask for traffic characteristics
  + Ask for HLG relevance, but make clear that this would need a concrete technical proposal and a justification.

**Decision:**

* We reply.

**S4-210009** is replied in **S4-210274**.

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| [S4-210274](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210274.zip) | Reply LS on 8K VR 360 operation points | S4 | Thomas Stockhammer |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Ozgur: Should we ask for feedback on CR as well
  + Thomas: as we agree on it, we should not ask for feedback but VR-IF can alway provide feedback.

**Decision:**

* agreed

**S4-210274** is agreed and will be presented to SA4 plenary.

## 10.4 CRs to completed features in Release 16 and earlier

none.

## 10.5 8K\_VR\_5G (Operation Points for 8K VR 360 Video over 5G)

WID:  [*SP-200667*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGs_89E_Electronic/Docs/SP-200667.zip) New WID on 'Operation Points for 8K VR 360 Video over 5G'

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| [S4-210027](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210027.zip) | 8K\_VR\_5G: Proposed Time Plan v.0.1.0 | Intel (Rapporteur) | Ozgur Oyman |

**E-mail Discussion:**

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| [[8K\_VR\_5G, 027, Block B, 5th Feb. 1200CET] 8K\_VR\_5G: Proposed Time Plan v.0.1.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=97405) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:26:06 +0000 |
| [[8K\_VR\_5G, 027, Block B, 5th Feb. 1200CET] 8K\_VR\_5G: Proposed Time Plan v.0.1.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=147142) | Thomas Stockhammer | Fri, 5 Feb 2021 10:56:25 +0000 |
| [[8K\_VR\_5G, 027, Block B, 5th Feb. 1200CET] 8K\_VR\_5G: Proposed Time Plan v.0.1.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=157227) | Oyman, Ozgur | Fri, 5 Feb 2021 15:09:13 +0000 |

**Presenter: Ozgur Oyman (Intel)**

**Discussion:**

* See e-mail discussion. We want to add the CR to TR 26.925.
* Work Plan will be revised to address the communication with VR-IF and to add the CR on this matter.

**Decision:**

* Revise to extend by 1 meeting cycle.

**S4-210027** is revised to **S4-2100277**.

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| [S4-210277](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210277.zip) | 8K\_VR\_5G: Proposed Time Plan v.0.1.1 | Intel (Rapporteur) | Ozgur Oyman |

**Presenter: Ozgur Oyman**

**Discussion:**

* No comments

**Decision:**

* agreed

**S4-210277** is agreed.

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| [S4-210028](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210028.zip) | Operation Points for 8K VR 360 Video | Intel | Ozgur Oyman |

**E-mail Discussion:**

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| [[8K\_VR\_5G, 028, Block B, 5th Feb. 1200CET]Operation Points for 8K VR 360 Video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=98185) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:26:15 +0000 |
| [[8K\_VR\_5G, 028, Block B, 5th Feb. 1200CET]Operation Points for 8K VR 360 Video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=139754) | Fabrice Plante | Thu, 4 Feb 2021 14:36:20 -0800 |
| [[8K\_VR\_5G, 028, Block B, 5th Feb. 1200CET]Operation Points for 8K VR 360 Video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=137412) | Sanchez de la Fuente, Yago | Thu, 4 Feb 2021 21:46:29 +0000 |
| [[8K\_VR\_5G, 028, Block B, 5th Feb. 1200CET]Operation Points for 8K VR 360 Video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=144657) | Thomas Stockhammer | Fri, 5 Feb 2021 10:47:24 +0000 |

**Presenter: Ozgur Oyman (Intel)**

**Discussion:**

* See discussion in 59.
* The content will be updated with the content in S4-210273.

**Decision:**

* The document is revised to a formal CR with the updates in S4-210273.

**S4-210028** is revised to **S4-210272**.

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| [S4-210272](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210272.zip) | CR26.118-0006: Operation Points for 8K VR 360 Video | Intel, Qualcomm | Ozgur Oyman |

**E-mail Discussion:**

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| [[8K\_VR\_5G] updated timeplan and CR to TS 26.118](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=162628) | Oyman, Ozgur | Sat, 6 Feb 2021 00:33:50 +0000 |
| [[8K\_VR\_5G] updated timeplan and CR to TS 26.118](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=163489) | Thomas Stockhammer | Sat, 6 Feb 2021 10:40:56 +0000 |
| [[8K\_VR\_5G] updated timeplan and CR to TS 26.118](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=164525) | Oyman, Ozgur | Sat, 6 Feb 2021 13:57:37 +0000 |
| [[8K\_VR\_5G] updated timeplan and CR to TS 26.118](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=165479) | Thomas Stockhammer | Sat, 6 Feb 2021 19:11:41 +0000 |

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| [[8K\_VR\_5G] updated timeplan and CR to TS 26.118](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=35541) | Oyman, Ozgur | Tue, 9 Feb 2021 07:33:04 +0000 |
| [[8K\_VR\_5G] updated timeplan and CR to TS 26.118](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=36514) | Thomas Stockhammer | Tue, 9 Feb 2021 08:17:29 +0000 |
| [[8K\_VR\_5G] updated timeplan and CR to TS 26.118](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=49542) | Oyman, Ozgur | Tue, 9 Feb 2021 14:38:51 +0000 |

**Presenter: Ozgur Oyman (Intel)**

**Discussion:**

* Thomas: Why is the guardband flag to 1?
  + Yago: Agree kind of, we should check
  + Ozgur: we should check the exact details.

**Decision:**

* Content agreed except detailed setting of region-wise packing.
* Maybe we need a revision.

**S4-210286** is presented to closing plenary.

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| [S4-210029](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210029.zip) | Decoding Capabilities and Operation Points for 8K VR 360 Video over 5GMS | Intel | Ozgur Oyman |

**E-mail Discussion:**

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| [[8K\_VR\_5G, 029, Block B, 5th Feb. 1200CET]Decoding Capabilities and Operation Points for 8K VR 360 Video over 5GMS](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=98964) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:26:22 +0000 |
| [[8K\_VR\_5G, 029, Block B, 5th Feb. 1200CET]Decoding Capabilities and Operation Points for 8K VR 360 Video over 5GMS](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=147768) | Thomas Stockhammer | Fri, 5 Feb 2021 10:58:32 +0000 |

**Presenter: Ozgur Oyman (Intel)**

**Discussion:**

* Thomas: why do we need encoding capabilities?
  + Ozgur: assumed that we do both as decoding capabilities have been defined.
  + Gilles: I would suggest avoid that is not used later.
  + Ozgur: Do we not need an encoding capability for 8k?
  + Gilles: does not impact the service
  + Thomas: I would also not address the encoding capabilities today. This is not part of the work item.
  + Ozgur: by adding 8K capabilities we create precedence.
  + Thomas: it would great to documenting the details on the decoding capabilities to avoid divergence.
* Discussed together with 060.

**Decision:**

* Merge with 60 into 275.

**S4-210029** is merged into **S4-210275**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210030](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210030.zip) | Proposed Way Forward for 8K Viewport-Independent Delivery | Intel | Ozgur Oyman |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[8K\_VR\_5G, 030, Block B, 5th Feb. 1200CET] Proposed Way Forward for 8K Viewport-Independent Delivery](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=101321) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:26:30 +0000 |
| [[8K\_VR\_5G, 030, Block B, 5th Feb. 1200CET] Proposed Way Forward for 8K Viewport-Independent Delivery](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=132362) | Thomas Stockhammer | Thu, 4 Feb 2021 19:35:33 +0000 |
| [[8K\_VR\_5G, 030, Block B, 5th Feb. 1200CET] Proposed Way Forward for 8K Viewport-Independent Delivery](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=133052) | Oyman, Ozgur | Thu, 4 Feb 2021 20:22:41 +0000 |
| [[8K\_VR\_5G, 030, Block B, 5th Feb. 1200CET] Proposed Way Forward for 8K Viewport-Independent Delivery](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=135286) | Thomas Stockhammer | Thu, 4 Feb 2021 21:28:15 +0000 |
| [[8K\_VR\_5G, 030, Block B, 5th Feb. 1200CET] Proposed Way Forward for 8K Viewport-Independent Delivery](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=136200) | Oyman, Ozgur | Thu, 4 Feb 2021 21:43:49 +0000 |
| [[8K\_VR\_5G, 030, Block B, 5th Feb. 1200CET] Proposed Way Forward for 8K Viewport-Independent Delivery](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=141633) | Thomas Stockhammer | Fri, 5 Feb 2021 05:30:43 +0000 |

**Presenter: Ozgur Oyman (Intel)**

**Discussion:**

* Gilles: summarizes the online discussion.
* Thomas: explains that 8192 x 4320 is not a resolution in practice, but is an envelope. Hence this should not be touched.
  + Alexis: used in RED cameras. It is not only a capture format but it is the 8k resolution format for DCI (digital cinema).
  + but not relevant for 3GPP as distribution.

**Decision:**

* Agree with making 8192 x 4096 at 60fps and 7360 x 4320 at 60 fps.
* Agreed with comments

**S4-210030** is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210059](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210059.zip) | Comments on draftCR for 8K\_VR | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=128005) | Fabrice Plante | Thu, 4 Feb 2021 07:58:25 -0800 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=99780) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:26:39 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=138918) | Fabrice Plante | Thu, 4 Feb 2021 14:36:22 -0800 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=133919) | teniou(TeniouGilles) | Thu, 4 Feb 2021 21:03:28 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=134626) | Oyman, Ozgur | Thu, 4 Feb 2021 21:24:35 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=138172) | Sanchez de la Fuente, Yago | Thu, 4 Feb 2021 22:09:45 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=150715) | Fabrice Plante | Fri, 5 Feb 2021 05:36:10 -0800 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=143777) | Thomas Stockhammer | Fri, 5 Feb 2021 10:46:18 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=148787) | Sanchez de la Fuente, Yago | Fri, 5 Feb 2021 11:59:47 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=149669) | Thomas Stockhammer | Fri, 5 Feb 2021 12:18:32 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=152746) | Oyman, Ozgur | Fri, 5 Feb 2021 14:35:08 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=153445) | Oyman, Ozgur | Fri, 5 Feb 2021 14:42:01 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=154226) | Thomas Stockhammer | Fri, 5 Feb 2021 14:45:28 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=155014) | Oyman, Ozgur | Fri, 5 Feb 2021 15:02:14 +0000 |
| [[8K\_VR\_5G, 059, Block B, 5th Feb. 1200CET] Comments on draftCR for 8K\_VR](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=155960) | Thomas Stockhammer | Fri, 5 Feb 2021 15:08:46 +0000 |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Gilles summarizes.
* We check <https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_112-e/Inbox/Drafts/S4-210059%20draft%20CR%2026.118%208K%20VR%20360%20operation%20points%20-comments%20-%20r3.doc>
* Yago: Change to 33,554,432 as this is the correct size for 8192 x 4096.
  + Thomas: agree
* Ozgur: Want to restrict region-wise coverage to in 5.1.7.11 clearer how to achieve this. Updates are needed. Will be done in a revision.
* Create a revision

**Decision:**

* Revisions agreed

**S4-210059** is revised to **S4-210273**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210273](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210273.zip) | Comments on draftCR for 8K\_VR | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210273** is agreed. The content is merged into the formal CR in **S4-210272.**

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210060](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210060.zip) | 8K Decoding Capabilities | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[8K\_VR\_5G, 060, Block B, 5th Feb. 1200CET] 8K Decoding Capabilities](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=126940) | Fabrice Plante | Thu, 4 Feb 2021 07:57:17 -0800 |
| [[8K\_VR\_5G, 060, Block B, 5th Feb. 1200CET] 8K Decoding Capabilities](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=100553) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:26:46 +0000 |
| [[8K\_VR\_5G, 060, Block B, 5th Feb. 1200CET] 8K Decoding Capabilities](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=142267) | Thomas Stockhammer | Fri, 5 Feb 2021 06:01:58 +0000 |
| [[8K\_VR\_5G, 060, Block B, 5th Feb. 1200CET] 8K Decoding Capabilities](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=158096) | Thomas Stockhammer | Fri, 5 Feb 2021 15:14:59 +0000 |

|  |  |  |
| --- | --- | --- |
| [[8K\_VR\_5G, 060, Block B, 5th Feb. 1200CET] 8K Decoding Capabilities](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=158096) | Thomas Stockhammer | Fri, 5 Feb 2021 15:14:59 +0000 |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Discussion see in 0029.

**Decision:**

* Agreed with some online changes and the relevant merge.
* Create a formal CR in 276

**S4-210060** is revised to **S4-210275**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210275](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210275.zip) | 8K Decoding Capabilities | Qualcomm Incorporated, Intel | Thomas Stockhammer |

**S4-210275** is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210276](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210276.zip) | CR26.511-0003: 8K Decoding Capabilities | Qualcomm Incorporated, Intel | Thomas Stockhammer |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Draft on title page.

**Decision:**

* Needs to be revised

**S4-210276** is revised to **S4-210282**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210282](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210282.zip) | CR26.511-0003: 8K Decoding Capabilities | Qualcomm Incorporated, Intel, Tencent | Thomas Stockhammer |

**S4-210282** is agreed.

## 10.6 FS\_VR\_CoGui (Feasibility Study on VR Streaming Conformance and Guidelines)

WID:  [*SP-190642*](https://www.3gpp.org/ftp/Meetings_3GPP_SYNC/SA/Docs/SP-190642) New SID on 'VR Streaming Conformance and Guidelines' (FS\_VR\_CoGui)

## 10.7 FS\_5GVideo (Feasibility Study on 5G Video Codec Characteristics)

WID:  [*SP-200052*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_87E_Electronic/Docs/SP-200052.zip) Feasibility Study on 5G Video Codec Characteristics (FS\_5GVideo)

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210061](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210061.zip) | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

None triggered

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Dates are wrong, Monday to Tuesday
* Also the late telco affects SA plenary, so should be last one.
* Ryan: Can we make these telcos general video
  + Thomas: yes, this was the plan
* Thomas: we want to possibly put the SA version for information to Mar 2, 2021.
  + Jayeeta: ok with me, Thomas checks with Fred.
  + We do either Feb 23 or Mar 2.

**Decision:**

* Update according to the proposals above

**S4-210061** is revised to **S4-210210**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210210.zip) | Work Plan for FS\_5GVideo v0.9 | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

None triggered

**Presenter: Thomas Stockhammer**

**Discussion:**

* none

**Decision:**

* none

**S4-210210** is **agreed and will be presented to Block A plenary**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210062](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210062.zip) | TR26.955: Proposed Editor's Update | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210062** is revised to **S4-210097**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210063](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210063.zip) | pCR26.955: Metrics | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GVideo, 063, Block A, 2nd Feb. 1200CET] Update on metrics computation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=5214) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:10:43 +0000 |
| [[FS\_5GVideo, 063, Block A, 2nd Feb. 1200CET] Update on metrics computation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=18484) | Gaëlle Martin-Cocher | Mon, 1 Feb 2021 13:39:01 +0000 |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Gaelle: Issue 9: Unclear what was decided, still not comfortable
  + Thomas: It was decided, this just reports the decisions. On the issues, still unclear what the problem is, if we would reopen the discussion.
  + Gaelle: there will be two values
  + Thomas: don’t care which one, just define it. File size by duration is a clear definition.

**Decision:**

* We agree on using file size/duration as the definition for the bitrate
* If anything needs to change, please provide input for next meeting.

**S4-210063** is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210064](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210064.zip) | pCR26.955: Data Management | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GVideo, 064, Block A, 2nd Feb. 1200CET] Data management](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=1593) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:09:04 +0000 |
| [[FS\_5GVideo, 064, Block A, 2nd Feb. 1200CET] Data management](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=39499) | teniou(TeniouGilles) | Tue, 2 Feb 2021 12:26:22 +0000 |

**Decision:**

* From e-mail: No comment was received. The document **S4-210064** is **agreed**.

**S4-210064** is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| S4-210065 | pCR26.955: Proposed anchors for FullHD Streaming | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210065** is withdrawn.

|  |  |  |  |
| --- | --- | --- | --- |
| S4-210066 | pCR26.955: Proposed anchors for Messaging and Social Sharing | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210066** is withdrawn.

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| --- | --- | --- | --- |
| [S4-210067](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210067.zip) | pCR26.955: Reference Sequences | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GVideo, 067, Block A, 2nd Feb. 1200CET] Reference sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=5984) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:10:51 +0000 |
| [[FS\_5GVideo, 067, Block A, 2nd Feb. 1200CET] Reference sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=40330) | teniou(TeniouGilles) | Tue, 2 Feb 2021 12:28:13 +0000 |

**Decision:**

* No comment was received. The document **S4-210067** is **agreed**.

**S4-210067** is agreed.

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| --- | --- | --- | --- |
| [S4-210097](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210097.zip) | TR26.955: Proposed Editor's Update | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GVideo, 097, Block A, 2nd Feb. 1200CET] TR26.955: Proposed Editor's Update](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=789) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:08:19 +0000 |
| [[FS\_5GVideo, 097, Block A, 2nd Feb. 1200CET] TR26.955: Proposed Editor's Update](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=17579) | Gaëlle Martin-Cocher | Mon, 1 Feb 2021 13:30:42 +0000 |
| [[FS\_5GVideo, 097, Block A, 2nd Feb. 1200CET] TR26.955: Proposed Editor's Update](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=41169) | teniou(TeniouGilles) | Tue, 2 Feb 2021 12:31:30 +0000 |

**Decision:**

* No more comment received. The document **S4-210097** is **agreed**. The missing xls files will be attached to the next version of the Draft TR and renamed into S4-template-HDR and S4-template-SDR.

**S4-210097** is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210207](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210207.zip) | TR26.955v0.5.0 | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [Draft TR 26.955 v0.5.0 on Draft Folder](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=46769) | Thomas Stockhammer | Tue, 9 Feb 2021 14:01:30 +0000 |

**S4-210207** is presented to SA4 plenary.

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| --- | --- | --- | --- |
| [S4-210098](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210098.zip) | 5GVideo-Anchor tuple Metrics | InterDigital France R&D, SAS | Gaelle Martin-Cocher |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GVideo, 098, Block A, 2nd Feb. 1200CET] Anchor tuple Metrics](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=6744) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:10:59 +0000 |
| [[FS\_5GVideo, 098, Block A, 2nd Feb. 1200CET] Anchor tuple Metrics](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=21767) | Thomas Stockhammer | Mon, 1 Feb 2021 21:56:13 +0000 |
| [[FS\_5GVideo, 098, Block A, 2nd Feb. 1200CET] Anchor tuple Metrics](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=37955) | Thomas Stockhammer | Tue, 2 Feb 2021 10:55:32 +0000 |
| [[FS\_5GVideo, 098, Block A, 2nd Feb. 1200CET] Anchor tuple Metrics](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=48267) | Gaëlle Martin-Cocher | Tue, 2 Feb 2021 14:43:58 +0000 |

**Presenter:** Gaëlle Martin-Cocher (Interdigital)

**Discussion:**

* Gilles: should we change different QP ranges?
  + Gaelle: we do some tests for this, possibly change this
* Thomas: What is the issue with VMAF?
  + Gaelle: results are just too good.
* Thomas: Can you provide anchors?
  + Gaelle: yes, let’s take offline
* Michel: We should add a clear definition for MS-SSIM
  + Gilles: good, can you draft a CR
  + Michel: yes can do

**Decision:**

* Agree the results in the excel
* Add the results in a proper format to the TR and the online data base (editors job, i.e. mine)
* Ask for cross-checking of the results latest until next SA4 meeting
* We also produce the a CR for MS-SSIM definition in S4-210206
* Information will be added to new TR in S4-210207.

**S4-210098** is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210206](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210206.zip) | MS-SSIM Definition | InterDigital France R&D, SAS | Gaelle Martin-Cocher |

**Presenter: Michel Kervidat** (Interdigital)

**Discussion:**

* Thomas: Appreciated, but I thought we said that we use HDRTools as the reference.
  + Gaelle: not really
  + Rajan: PSNR 0
* Thomas: second change is not part of the mandate
* Michelle:
  + We converging in e-mail discussion. I guess we agree that the truth regarding computation of metrics are the reference softwares HM, VTM, ETM and HDRTools for HDR metrics, Netflix code for VMAF, and BD-rate computation in Excel Sheets.
  + The scripts are using all these softwares.
  + Now as HDRTools is aligned with VTM11 (the latest version) for the computation of MS-SSIM we can also use HDRTools for MS-SSIM.
  + I guess we are on the same line:
  + Documenting the metrics in the TR is more for information.
  + Please note that there is still a small difference between PSNR calculated by VTM and HDRTools. There is a ticket open, and it should be corrected soon.

**E-mail Discussion:**

None triggered

|  |  |  |
| --- | --- | --- |
| [[FS\_5GVideo, 206, Block A-ext, 10th Feb. 1200 CET] Proposed updates on definition of MS-SSIM metric](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=51708) | teniou(TeniouGilles) | Tue, 9 Feb 2021 17:46:37 +0000 |
| [[FS\_5GVideo, 206, Block A-ext, 10th Feb. 1200 CET] Proposed updates on definition of MS-SSIM metric](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=52368) | Thomas Stockhammer | Tue, 9 Feb 2021 21:38:03 +0000 |
| [[FS\_5GVideo, 206, Block A-ext, 10th Feb. 1200 CET] Proposed updates on definition of MS-SSIM metric](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=53072) | Thomas Stockhammer | Tue, 9 Feb 2021 21:58:57 +0000 |

**Decision:**

**S4-210206** is **agreed/noted/revised**.

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| --- | --- | --- | --- |
| [S4-210105](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210105.zip) | [FS\_5GVideo] pCR26.955: Updated EVC verification test results | Samsung, Qualcomm | Rajan Joshi |

**E-mail Discussion:**

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| --- | --- | --- |
| [[FS\_5GVideo, 105, Block A, 2nd Feb. 1200CET] Updated EVC verification test results](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=2279) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:09:24 +0000 |
| [[FS\_5GVideo, 105, Block A, 2nd Feb. 1200CET] Updated EVC verification test results](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=19319) | Fabrice Plante | Mon, 1 Feb 2021 08:52:12 -0800 |
| [[FS\_5GVideo, 105, Block A, 2nd Feb. 1200CET] Updated EVC verification test results](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=20184) | Dmytro Rusanovskyy | Mon, 1 Feb 2021 18:56:51 +0000 |
| [[FS\_5GVideo, 105, Block A, 2nd Feb. 1200CET] Updated EVC verification test results](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=26176) | Dmytro Rusanovskyy | Mon, 1 Feb 2021 23:11:26 +0000 |
| [[FS\_5GVideo, 105, Block A, 2nd Feb. 1200CET] Updated EVC verification test results](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=38545) | Michel Kerdranvat | Tue, 2 Feb 2021 10:59:50 +0000 |
| [[FS\_5GVideo, 105, Block A, 2nd Feb. 1200CET] Updated EVC verification test results](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=51094) | Rajan Laxman Joshi | Tue, 2 Feb 2021 15:21:09 +0000 |

|  |  |  |
| --- | --- | --- |
| [[FS\_5GVideo, 105, Block A, 2nd Feb. 1200CET] Updated EVC verification test results(Internet mail) 105 revised to 208](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=83817) | Rajan Laxman Joshi | Wed, 3 Feb 2021 18:34:34 +0000 |

**Discussion:**

* Updates provided by Apple.
  + We think it is quite important when making claim about performance to clarify that the results are for the reference encoder.
  + This provides more correct context since different encoder of the same standard may behave differently.
  + Also for AVC, isn’t the profile Progressive High 10?
  + We propose an updated version with this editorial changes in :
  + [S4-210105 pCR 26.955 - updated EVC verification test results\_Apple.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_112-e/Inbox/Drafts/S4-210105%20pCR%2026.955%20-%20updated%20EVC%20verification%20test%20results_Apple.docx)
  + Agreed
* Gaelle: check reference 52
  + Rajan: will do
  + <http://www.mpegstandards.org/wp-content/uploads/mpeg_meetings/133_OnLine/w20000.zip>

**Decision:**

* Online changes are agreed.

**S4-210105** is revised to **S4-210208.**

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| [S4-210208](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210208.zip) | [FS\_5GVideo] pCR26.955: Updated EVC verification test results | Samsung, Qualcomm | Rajan Joshi |

**S4-210208** is agreed**.**

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| [S4-210131](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210131.zip) | 4K-HDR Test Material Selection for FS\_5GVideo | ATEME, InterDigital, Ericsson | Thibaud Biatek |

**E-mail Discussion:**

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| --- | --- | --- |
| [[FS\_5GVideo, 131, Block A, 2nd Feb. 1200CET] 4K-HDR Test Material Selection](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=2987) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:09:37 +0000 |
| [[FS\_5GVideo, 131, Block A, 2nd Feb. 1200CET] 4K-HDR Test Material Selection](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=27983) | Fabrice Plante | Mon, 1 Feb 2021 19:50:32 -0800 |
| [[FS\_5GVideo, 131, Block A, 2nd Feb. 1200CET] 4K-HDR Test Material Selection](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=20961) | Thomas Stockhammer | Mon, 1 Feb 2021 21:46:23 +0000 |
| [[FS\_5GVideo, 131, Block A, 2nd Feb. 1200CET] 4K-HDR Test Material Selection](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=27106) | Dmytro Rusanovskyy | Tue, 2 Feb 2021 02:22:14 +0000 |
| [[FS\_5GVideo, 131, Block A, 2nd Feb. 1200CET] 4K-HDR Test Material Selection](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=44311) | Fabrice Plante | Tue, 2 Feb 2021 06:16:37 -0800 |
| [[FS\_5GVideo, 131, Block A, 2nd Feb. 1200CET] 4K-HDR Test Material Selection](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=45170) | Fabrice Plante | Tue, 2 Feb 2021 06:21:50 -0800 |
| [[FS\_5GVideo, 131, Block A, 2nd Feb. 1200CET] 4K-HDR Test Material Selection](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=32644) | Thibaud Biatek | Tue, 2 Feb 2021 09:14:06 +0000 |
| [[FS\_5GVideo, 131, Block A, 2nd Feb. 1200CET] 4K-HDR Test Material Selection](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=34257) | Thibaud Biatek | Tue, 2 Feb 2021 09:26:06 +0000 |
| [[FS\_5GVideo, 131, Block A, 2nd Feb. 1200CET] 4K-HDR Test Material Selection](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=35028) | Thibaud Biatek | Tue, 2 Feb 2021 09:32:54 +0000 |
| [[FS\_5GVideo, 131, Block A, 2nd Feb. 1200CET] 4K-HDR Test Material Selection](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=46026) | Thibaud Biatek | Tue, 2 Feb 2021 14:24:19 +0000 |

**Discussion:**

* Gilles summarizes the e-mail discussion.
* Thibaud provides updates:
  + Will upload sequences
  + Bitstreams will be shared on how conversion was done
  + Regeneration of sequences will take some time (responding to Apple’s comments)
  + We need to document he conversion process in the Annex
  + Need to also check if we can redistribute the converted sequences
* Revision is needed

**Decision:**

* Revise taking into account the above comments
* Will be made available by block B completion

**S4-210131** is revised to **S4-210209**.

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| [S4-210209](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210209.zip) | 4K-HDR Test Material Selection for FS\_5GVideo | ATEME, InterDigital, Ericsson | Thibaud Biatek |

**E-mail Discussion:**

None triggered

**Presenter:**

**Discussion:**

* Not available. Thibaud explains situation and the configuration of the files.
* Expect this available by the end of the SA4#112-e, if not it will be pushed
* In the Block B summary it was reported that this is work in progress.
* It will be presented in a telco

**Decision:**

* noted

**S4-210209** is noted.

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| [S4-210165](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210165.zip) | Proposed updates on Gaming sequences description | Tencent, InterDigital | Gilles Teniou |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GVideo, 165, Block A, 2nd Feb. 1200CET] Proposed updates on Gaming sequences description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=3758) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:10:16 +0000 |
| [[FS\_5GVideo, 165, Block A, 2nd Feb. 1200CET] Proposed updates on Gaming sequences description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=23213) | Thomas Stockhammer | Mon, 1 Feb 2021 22:02:03 +0000 |
| [[FS\_5GVideo, 165, Block A, 2nd Feb. 1200CET] Proposed updates on Gaming sequences description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=42133) | teniou(TeniouGilles) | Tue, 2 Feb 2021 12:40:43 +0000 |

**Decision:**

* Editorial changes are under the control of the spec editor.
* Therefore the document **S4-210165** is **agreed**. The editorial changes will be checked by the source when the next version of the draft TR is available.

**S4-210165** is agreed.

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| --- | --- | --- | --- |
| [S4-210168](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210168.zip) | Proposed updates on Screen Content sequences description | Tencent, InterDigital | Gilles Teniou |

**E-mail Discussion:**

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| [[FS\_5GVideo, 168, Block A, 2nd Feb. 1200CET] Proposed updates on Screen Content sequences description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=4481) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:10:20 +0000 |
| [[FS\_5GVideo, 168, Block A, 2nd Feb. 1200CET] Proposed updates on Screen Content sequences description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=22347) | Thomas Stockhammer | Mon, 1 Feb 2021 22:00:36 +0000 |
| [[FS\_5GVideo, 168, Block A, 2nd Feb. 1200CET] Proposed updates on Screen Content sequences description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=43027) | teniou(TeniouGilles) | Tue, 2 Feb 2021 12:41:32 +0000 |

**Decision:**

* Editorial changes are under the control of the spec editor.
* Therefore the document **S4-210168** is **agreed**. The editorial changes will be checked by the source when the next version of the draft TR is available.

**S4-210168** is agreed.

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| --- | --- | --- | --- |
| [S4-210205](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210205.zip) | Screen Content scenario evaluation results | InterDigital France R&D, SAS | Gaelle Martin-Cocher |

**Presenter:** Gaelle Martin-Cocher (InterDigital)

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GVideo, 205, Block A, 4th Feb. 0900CET] Screen Content scenario evaluation results](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=51895) | teniou(TeniouGilles) | Tue, 2 Feb 2021 19:58:22 +0000 |

**Discussion:**

* No feedback, seems too early.

**Decision:**

* Note and ask for resubmission
* Please also add excel sheets

**S4-210205** is noted.

## 10.8 FS\_XRTraffic (Feasibility Study on Typical Traffic Characteristics for XR Services and other Media)

WID: [*SP-200054*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_87E_Electronic/Docs/SP-200054.zip) Feasibility Study on Typical Traffic Characteristics for XR Services and other Media

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| [S4-210068](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210068.zip) | Proposed Updates to Work Plan for FS\_XRTraffic | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

None triggered

**Presenter: Thomas Stockhammer**

**Discussion:**

* Add LS to be sent to RAN1 for March 16, 2021 to provide the latest information.
* Fix the dates to Tuesdays
* Fully align with the updated work item

**Decision:**

**S4-210068** is revised to **S4-210281**.

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| [S4-210069](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210069.zip) | [FS\_XRTraffic] Proposed Updated to Work Item Description | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210069** is revised to **S4-210211**.

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| [S4-210070](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210070.zip) | [FS\_XRTraffic] Proposed Annex to TR26.925 | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_XRTraffic, 070, Block B, 8th Feb. 1200CET] Proposed Annex to TR26.925](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=102123) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:27:17 +0000 |

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| [[FS\_XRTraffic, 070, Block B, 8th Feb. 1200CET] Proposed Annex to TR26.925](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16828) | teniou(TeniouGilles) | Mon, 8 Feb 2021 11:23:01 +0000 |

**Decision:**

* No comment was received. The document **S4-210070** is **agreed**.

**S4-210070** is agreed.

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| [S4-210071](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210071.zip) | [FS\_XRTraffic] Proposed Additional Traffic Models | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[FS\_XRTraffic, 071, Block B, 8th Feb. 1200CET] Proposed Annex to TR26.925](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=102897) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:27:27 +0000 |

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| [[FS\_XRTraffic, 071, Block B, 8th Feb. 1200CET] Proposed Annex to TR26.925](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=17570) | teniou(TeniouGilles) | Mon, 8 Feb 2021 11:24:33 +0000 |

**Decision:**

* No comment was received. The document **S4-210071** is **agreed**.

**S4-210071** is agreed.

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| [S4-210072](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210072.zip) | [FS\_XRTraffic] Traffic Model Overview and Status | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_XRTraffic, 072, Block B, 8th Feb. 1200CET] Traffic Model Overview and Status](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=103671) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:27:33 +0000 |
| [[FS\_XRTraffic, 072, Block B, 8th Feb. 1200CET] Traffic Model Overview and Status](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=117740) | Thomas Stockhammer | Thu, 4 Feb 2021 10:55:13 +0000 |
| [[FS\_XRTraffic, 072, Block B, 8th Feb. 1200CET] Traffic Model Overview and Status](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=131561) | Thomas Stockhammer | Thu, 4 Feb 2021 19:20:45 +0000 |

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| [[FS\_XRTraffic, 072, Block B, 8th Feb. 1200CET] Traffic Model Overview and Status](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=18312) | teniou(TeniouGilles) | Mon, 8 Feb 2021 11:30:30 +0000 |

**Decision:**

* Requested clarifications have been provided. The document **S4-210072** is **agreed**.
* The Permanent document will be updated accordingly taking into account the comments

**S4-210072** is agreed.

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| [S4-210073](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210073.zip) | [FS\_XRTraffic] From Traces to Statisical Models | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_XRTraffic, 073, Block B, 8th Feb. 1200CET] From Traces to Statisical Models](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=104452) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:27:42 +0000 |

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| [[FS\_XRTraffic, 073, Block B, 8th Feb. 1200CET] From Traces to Statisical Models](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=12316) | panqi (E) | Mon, 8 Feb 2021 09:19:13 +0000 |
| [[FS\_XRTraffic, 073, Block B, 8th Feb. 1200CET] From Traces to Statisical Models](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=12931) | Thomas Stockhammer | Mon, 8 Feb 2021 09:28:39 +0000 |
| [[FS\_XRTraffic, 073, Block B, 8th Feb. 1200CET] From Traces to Statisical Models](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=19190) | teniou(TeniouGilles) | Mon, 8 Feb 2021 11:37:39 +0000 |

**Decision:**

* Thanks Qi and Thomas for the update on what is going on in RAN1.
* I suggest we keep going with our duties in SA4 and wait for an official communication from our RAN1 friends.
* With regards to the document below I see no reason not to agree on it for the time being.
* The document **S4-210073** is **agreed**.

**S4-210073** is agreed.

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| [S4-210074](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210074.zip) | [FS\_XRTraffic] Proposed Quality Evaluation Framework | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_XRTraffic, 074, Block B, 8th Feb. 1200CET] Proposed Quality Evaluation Framework](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=105232) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:27:49 +0000 |

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| [[FS\_XRTraffic, 074, Block B, 8th Feb. 1200CET] Proposed Quality Evaluation Framework](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=78) | teniou(TeniouGilles) | Mon, 8 Feb 2021 00:10:43 +0000 |
| [[FS\_XRTraffic, 074, Block B, 8th Feb. 1200CET] Proposed Quality Evaluation Framework](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=1915) | Thomas Stockhammer | Mon, 8 Feb 2021 03:46:02 +0000 |

**Discussion:**

* Gilles summarizes the discussion
* Gilles: how do you identify error propagation?
  + Thomas: you are taking into account losses over time.
  + Gilles:
* Qi: The software is not yet available
  + Thomas: correct, it is on the list
* Qi: On proposal 8), this is not yet ready
  + Thomas: agree, can we send another LS to RAN1?

**Decision:**

* Agree without 8
* We will add an LS to a telco on March 4.
* Add to permanent document

**S4-210074** is agreed.

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| --- | --- | --- | --- |
| [S4-210121](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210121.zip) | Proposed Content Delivery Models and Quality Evaluation for VR1 | China Mobile Com. Corporation | Yujian Yin |

**E-mail Discussion:**

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| --- | --- | --- |
| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=106829) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:28:04 +0000 |
| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=123551) | Bo Burman | Thu, 4 Feb 2021 13:50:16 +0000 |
| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=130803) | Thomas Stockhammer | Thu, 4 Feb 2021 18:09:16 +0000 |
| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=140721) | yinyujian | Fri, 5 Feb 2021 09:50:53 +0800 |
| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=143179) | Chris Pudney | Fri, 5 Feb 2021 10:34:48 +0000 |
| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=145653) | Thomas Stockhammer | Fri, 5 Feb 2021 10:52:30 +0000 |
| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=151815) | [[log in to unmask]](https://list.etsi.org/scripts/wa.exe?LOGON=A1%3Dind2102A%26L%3D3GPP_TSG_SA_WG4_VIDEO) | Fri, 5 Feb 2021 21:53:04 +0800 |

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| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=15276) | Thomas Stockhammer | Mon, 8 Feb 2021 09:36:59 +0000 |
| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=25675) | Pudney, Chris, Vodafone Group | Mon, 8 Feb 2021 12:46:59 +0000 |
| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=28521) | Thomas Stockhammer | Mon, 8 Feb 2021 13:15:32 +0000 |
| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=27638) | yinyujian | Mon, 8 Feb 2021 21:10:15 +0800 |

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| [[FS\_XRTraffic, 121, Block B, 8th Feb. 1200CET] Proposed Content Delivery Models and Quality Evaluation for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=33416) | yinyujian | Tue, 9 Feb 2021 10:25:02 +0800 |

**Discussion:**

* Gilles summarizes the discussion.
* Open questions:
  + ITU-T P.910 how to use
    - Thomas: I am still unclear how the simulation would possibly be done. It is not a trivial task and it would be good be understood how this can be done.
    - Fei: we can remove this for now

**Decision:**

* Merge this into PD together with 71

**S4-210121** is agreed.

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| [S4-210122](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210122.zip) | Quality Measurement Consideration for VR1 | China Mobile Com. Corporation | Yujian Yin |

**E-mail Discussion:**

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| [[FS\_XRTraffic, 122, Block B, 8th Feb. 1200CET] Proposed Update to PD](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=107641) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:28:14 +0000 |
| [[FS\_XRTraffic, 122, Block B, 8th Feb. 1200CET] Proposed Update to PD](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=112117) | teniou(TeniouGilles) | Thu, 4 Feb 2021 09:12:39 +0000 |
| [[FS\_XRTraffic, 122, Block B, 8th Feb. 1200CET] Quality Measurement Consideration for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=113735) | teniou(TeniouGilles) | Thu, 4 Feb 2021 09:15:55 +0000 |

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| [[FS\_XRTraffic, 122, Block B, 8th Feb. 1200CET] Quality Measurement Consideration for VR1](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=23359) | teniou(TeniouGilles) | Mon, 8 Feb 2021 12:40:26 +0000 |

**Discussion:**

* Gilles summarizes

**Decision:**

* Merge this into PD together with 71

**S4-210122** is agreed.

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| [S4-210125](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210125.zip) | [FS\_XRTraffic] Proposed Update to PD | Qualcomm CDMA Technologies | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_XRTraffic, 125, Block B, 8th Feb. 1200CET] Proposed Update to PD](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=112966) | teniou(TeniouGilles) | Thu, 4 Feb 2021 09:15:49 +0000 |

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| [[FS\_XRTraffic, 125, Block B, 8th Feb. 1200CET] Proposed Update to PD](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24173) | teniou(TeniouGilles) | Mon, 8 Feb 2021 12:42:11 +0000 |

**Decision:**

* No comment was received. The Document **S4-210125** is the **agreed** permanent document as the basis for further work.
* A new version is allocated in 278

**S4-210125** is agreed.

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| [S4-210278](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210278.zip) | [FS\_XRTraffic] PD v0.5.0 | Qualcomm CDMA Technologies | Thomas Stockhammer |

**S4-210125** is agreed.

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| [S4-210211](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210211.zip) | [FS\_XRTraffic] Proposed Updated to Work Item Description | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_XRTraffic, 211, Block B, 8th Feb. 1200CET] Proposed Updated to Work Item Description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=108410) | teniou(TeniouGilles) | Thu, 4 Feb 2021 08:28:21 +0000 |
| [[FS\_XRTraffic, 211, Block B, 8th Feb. 1200CET] Proposed Updated to Work Item Description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=115349) | panqi (E) | Thu, 4 Feb 2021 10:31:08 +0000 |
| [[FS\_XRTraffic, 211, Block B, 8th Feb. 1200CET] Proposed Updated to Work Item Description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=116814) | Thomas Stockhammer | Thu, 4 Feb 2021 10:47:22 +0000 |
| [[FS\_XRTraffic, 211, Block B, 8th Feb. 1200CET] Proposed Updated to Work Item Description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=120945) | yixuelei(雷艺学) | Thu, 4 Feb 2021 13:17:17 +0000 |
| [[FS\_XRTraffic, 211, Block B, 8th Feb. 1200CET] Proposed Updated to Work Item Description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=122782) | panqi (E) | Thu, 4 Feb 2021 13:25:13 +0000 |
| [[FS\_XRTraffic, 211, Block B, 8th Feb. 1200CET] Proposed Updated to Work Item Description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=124789) | Thomas Stockhammer | Thu, 4 Feb 2021 14:20:42 +0000 |
| [[FS\_XRTraffic, 211, Block B, 8th Feb. 1200CET] Proposed Updated to Work Item Description](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=130077) | HU, JAMES | Thu, 4 Feb 2021 17:39:10 +0000 |

**Discussion:**

* Gilles summarizes the discussion
* Qi: TR is appropriate for XR Traffic work. XR Related work will be finished by June 2021. Time Plan extensions to December is too long.
  + Gilles: so we would not do anything until March
* Thomas: the study always included additional media services, for example 5G Video
  + Lei: We want to complete this work by latest June
  + Thomas: this is reflected, but we can add this to the remarks.
  + Lei: impacts SA2, so we need to complete this.
* Additional online edits

**Decision:**

* Add to the remarks that all XR related information will be completed by SA#92.
* Online edits agreed

**S4-210211** is revised to **S4-210280**.

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| [S4-210280](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210280.zip) | [FS\_XRTraffic] Proposed Updated to Work Item Description | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210280** is agreed.

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| [S4-210212](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210212.zip) | Discussion Paper on SA4 support for XR and other media application in 5G | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_XRTraffic, 212, Block B, 8th Feb. 1200CET] Discussion Paper on SA4 support for XR and other media application in 5G](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=158953) | yixuelei(雷艺学) | Fri, 5 Feb 2021 17:31:53 +0000 |
| [[FS\_XRTraffic, 212, Block B, 8th Feb. 1200CET] Discussion Paper on SA4 support for XR and other media application in 5G](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=165950) | panqi (E) | Sun, 7 Feb 2021 04:17:08 +0000 |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Lei: Do we have to approve this document? Needs to discussed at SA plenary level, but not in SA4. I do not want to repeat the discussion in the e-mail
  + Gilles: sympathy to react earlier to make SA4 more relevant. We need to react earlier
  + Qi: in order to prepare answers to SA1, SA2 and RAN1, it is ok. But we cannot agree the paper anyways
* James: very useful to do reference designs, also for deployment considerations. Proposed additions are very helpful. Also helpful with other working group considerations.
* Lei: this touches coordination with other working groups. Should be discussed in plenary level. It has question marks. There is also different Release planning.
* Gilles: Service requirements may be changed.
* Thomas: If we do not work discuss the details, we are just will not do good system designs. If we want to kill this based on procedures, go ahead. But let’s not pretend that we want to design good systems
  + Lei: not intention, but needs to be discussed on SA plenary level
  + James. Agree we Gilles and Thomas. Other groups are looking for SA4’s leadership in this area. This should be solved. Not a procedural issues.
* Chris: agree to deal with this matter and SA4 should be involved earlier in the discussion and sufficient time.

**Decision:**

* Revision will be done for SA4 plenary.

**S4-210212** is revised to **S4-210279**.

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| [S4-210279](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210279.zip) | Discussion Paper on SA4 support for XR and other media application in 5G | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [Update to S4-210212: Discussion Paper on SA4 support for XR and other media application in 5G](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=34432) | Thomas Stockhammer | Tue, 9 Feb 2021 07:12:14 +0000 |
| [Update to S4-210212: Discussion Paper on SA4 support for XR and other media application in 5G](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=47648) | Thomas Stockhammer | Tue, 9 Feb 2021 14:34:53 +0000 |

**S4-210279** is presented to **SA4 plenary**.

## 10.9 FS\_5GSTAR (Feasibility Study on 5G Glass-type AR/MR Devices)

WID: [SP\_200399](http://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_88E_Electronic/Docs/SP-200399.zip) New SID on 5G Glass-type AR/MR Devices

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| S4-210013 | Proposed Architectures for AR Conversational | HiSilicon Technologies Co. Ltd | Yan Liu |

**S4-210013** is withdrawn.

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| [S4-210014](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210014.zip) | Editorial corrections of the use cases on AR Conversational | HiSilicon Technologies Co. Ltd | Yan Liu |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 014, Block A, 3rd Feb. 1200CET] Editorial corrections of the use cases on AR Conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=8976) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:12:45 +0000 |
| [[FS\_5GSTAR, 014, Block A, 3rd Feb. 1200CET] Editorial corrections of the use cases on AR Conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=29926) | Hakju Ryan Lee | Tue, 2 Feb 2021 14:04:07 +0900 |
| [[FS\_5GSTAR, 014, Block A, 3rd Feb. 1200CET] Editorial corrections of the use cases on AR Conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=49146) | Liuyan (Scarlett) | Tue, 2 Feb 2021 14:52:44 +0000 |
| [[FS\_5GSTAR, 014, Block A, 3rd Feb. 1200CET] Editorial corrections of the use cases on AR Conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=63105) | Liuyan (Scarlett) | Wed, 3 Feb 2021 07:37:59 +0000 |
| [[FS\_5GSTAR, 014, Block A, 3rd Feb. 1200CET] Editorial corrections of the use cases on AR Conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=60360) | Hakju Ryan Lee | Wed, 3 Feb 2021 12:46:09 +0900 |

**Discussion:**

* none

**Decision:**

* Revision r01 is agreed

**S4-210014** is revised to **S4-210214**.

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| [S4-210214](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210214.zip) | Editorial corrections of the use cases on AR Conversational | HiSilicon Technologies Co. Ltd | Yan Liu |

**S4-210214** is agreed.

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| [S4-210076](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210076.zip) | [FS\_5GSTAR] Device Names | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 076, Block A, 3rd Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=13999) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:12:49 +0000 |
| [[FS\_5GSTAR, 076, Block A, 3rd Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=47457) | Hakju Ryan Lee | Tue, 2 Feb 2021 23:27:03 +0900 |
| [[FS\_5GSTAR, 076, Block A, 3rd Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=64109) | Liuyan (Scarlett) | Wed, 3 Feb 2021 07:51:15 +0000 |

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| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=88631) | teniou(TeniouGilles) | Wed, 3 Feb 2021 23:52:57 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=89411) | Kyunghun Jung | Thu, 4 Feb 2021 03:10:27 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=92238) | Liuyan (Scarlett) | Thu, 4 Feb 2021 03:39:00 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=92850) | Thomas Stockhammer | Thu, 4 Feb 2021 07:17:13 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=94945) | Thomas Stockhammer | Thu, 4 Feb 2021 07:28:09 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=109993) | Kyunghun Jung | Thu, 4 Feb 2021 08:47:10 +0000 |

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| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=8784) | Thorsten Lohmar | Mon, 8 Feb 2021 07:42:49 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=13735) | Thomas Stockhammer | Mon, 8 Feb 2021 09:30:15 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=19726) | Thorsten Lohmar | Mon, 8 Feb 2021 11:44:11 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=20608) | 王东(Dong) | Mon, 8 Feb 2021 11:57:19 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=22287) | Thomas Stockhammer | Mon, 8 Feb 2021 12:00:24 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=26582) | 王东(Dong) | Mon, 8 Feb 2021 12:52:09 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=6021) | Hakju Ryan Lee | Mon, 8 Feb 2021 15:08:02 +0900 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16146) | Hakju Ryan Lee | Mon, 8 Feb 2021 19:54:14 +0900 |

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| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=29496) | panqi (E) | Mon, 8 Feb 2021 15:16:24 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=30345) | 王东(Dong) | Mon, 8 Feb 2021 15:25:15 +0000 |
| [[FS\_5GSTAR, 076, Block A-EXT, 8th Feb. 1200CET] Device names](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=31453) | Thomas Stockhammer | Mon, 8 Feb 2021 20:13:24 +0000 |

**Discussion:**

* Comments
  + Huawei: proposed to remove sidelink
    - Thomas: ok
  + Huawei: MR/AR is unclear
    - It is explained in TR, please check there
  + Thomas: on device name, one company has strong opinion.
    - Fred: still want to good names
    - Ali: support
    - Mary-Luc: stuck
* We will discuss offline

**Decision:**

* revised

**S4-210076** is revised to **S4-210224**.

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| [S4-210224](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210224.zip) | [FS\_5GSTAR] Device Names | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 224, Block A-ext, 10th Feb. 1200 CET] Device Considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=50238) | teniou(TeniouGilles) | Tue, 9 Feb 2021 16:47:48 +0000 |

**Decision:**

**S4-210224** is revised/agreed/noted.

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| [S4-210077](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210077.zip) | [FS\_5GSTAR] Use Case to Architecture Mappings | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 077, Block A, 3rd Feb. 1200CET] Use Case to Architecture Mappings](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=14686) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:13:19 +0000 |
| [[FS\_5GSTAR, 077, Block A, 3rd Feb. 1200CET] Use Case to Architecture Mappings](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=46671) | teniou(TeniouGilles) | Tue, 2 Feb 2021 14:26:28 +0000 |
| [[FS\_5GSTAR, 077, Block A, 3rd Feb. 1200CET] Use Case to Architecture Mappings](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=37339) | Hakju Ryan Lee | Tue, 2 Feb 2021 19:12:34 +0900 |
| [[FS\_5GSTAR, 077, Block A, 3rd Feb. 1200CET] Use Case to Architecture Mappings](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=53480) | Thomas Stockhammer | Tue, 2 Feb 2021 21:16:09 +0000 |
| [[FS\_5GSTAR, 077, Block A, 3rd Feb. 1200CET] Use Case to Architecture Mappings](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=66653) | Liuyan (Scarlett) | Wed, 3 Feb 2021 09:07:06 +0000 |
| [[FS\_5GSTAR, 077, Block A, 3rd Feb. 1200CET] Use Case to Architecture Mappings](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=67327) | Curcio, Igor (Nokia - FI/Tampere) | Wed, 3 Feb 2021 09:24:57 +0000 |
| [[FS\_5GSTAR, 077, Block A, 3rd Feb. 1200CET] Use Case to Architecture Mappings](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=69619) | Thomas Stockhammer | Wed, 3 Feb 2021 09:40:29 +0000 |

**Discussion:**

* Thomas: we have discussed the details on the e-mail threads. This is just a way forward.

**Decision:**

* Agreed. Way forward in-emails.

**S4-210077** is agreed.

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| [S4-210078](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210078.zip) | [FS\_5GSTAR] OpenXR and Khronos | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 078, Block A, 3rd Feb. 1200CET] OpenXR and Khronos](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=9711) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:13:24 +0000 |
| [[FS\_5GSTAR, 078, Block A, 3rd Feb. 1200CET] OpenXR and Khronos](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=36764) | Hakju Ryan Lee | Tue, 2 Feb 2021 18:57:24 +0900 |
| [[FS\_5GSTAR, 078, Block A, 3rd Feb. 1200CET] OpenXR and Khronos](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=67919) | Curcio, Igor (Nokia - FI/Tampere) | Wed, 3 Feb 2021 09:31:02 +0000 |
| [[FS\_5GSTAR, 078, Block A, 3rd Feb. 1200CET] OpenXR and Khronos](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=68811) | Thomas Stockhammer | Wed, 3 Feb 2021 09:37:53 +0000 |

**Discussion:**

* Gilles summarizes the discussion.
* Ryan: what does reference mean?
  + Thomas: a platform that is open and well-specified
* Jaeyeon: We need an analysis of OpenXR/Vulkan on how this maps to our device architecture.
  + Gilles: explains what Thomas wanted to do
* Gilles: suggests that these are candidate technologies

**Decision:**

* Agreed as candidate technologies - more detailed information is requested for the next meeting

**S4-210078** is agreed.

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| --- | --- | --- | --- |
| [S4-210110](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210110.zip) | FS\_5GSTAR: Bidirectional media flows | Samsung Electronics Iberia SA | Eric Yip |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 110, Block A, 3rd Feb. 1200CET] Bidirectional media flows](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=11872) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:13:29 +0000 |
| [[FS\_5GSTAR, 110, Block A, 3rd Feb. 1200CET] Bidirectional media flows](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=57960) | Thomas Stockhammer | Tue, 2 Feb 2021 23:15:11 +0000 |
| [[FS\_5GSTAR, 110, Block A, 3rd Feb. 1200CET] Bidirectional media flows](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=64726) | Thomas Stockhammer | Wed, 3 Feb 2021 08:42:55 +0000 |
| [[FS\_5GSTAR, 110, Block A, 3rd Feb. 1200CET] Bidirectional media flows](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=65741) | Sanchez de la Fuente, Yago | Wed, 3 Feb 2021 09:01:20 +0000 |
| [[FS\_5GSTAR, 110, Block A, 3rd Feb. 1200CET] Bidirectional media flows](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=62482) | Eric Yip | Wed, 3 Feb 2021 16:04:11 +0900 |

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| [[FS\_5GSTAR, 110, Block A, 3rd Feb. 1200CET] Bidirectional media flows](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=90053) | Liuyan (Scarlett) | Thu, 4 Feb 2021 03:13:36 +0000 |
| [[FS\_5GSTAR, 110, Block A, 3rd Feb. 1200CET] Bidirectional media flows](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=114524) | Eric Yip | Thu, 4 Feb 2021 18:40:14 +0900 |

**Discussion:**

* together with 111, 112 and 113
* Thomas: suggest to create a template, that goes to the TR
  + Include the information into the PD
  + Fix some the comments

**Decision:**

* TR template to be created
* Information goes into PD taking into account the comments

**S4-210110** is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210111](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210111.zip) | FS\_5GSTAR: Unidirectional media flow from server to UE | Samsung R&D Institute UK | Hakju Ryan Lee |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GSTAR, 111, Block A, 3rd Feb. 1200CET] Unidirectional media flow from server to UE](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=13270) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:13:30 +0000 |
| [[FS\_5GSTAR, 111, Block A, 3rd Feb. 1200CET] Unidirectional media flow from server to UE](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=25531) | Thomas Stockhammer | Mon, 1 Feb 2021 23:09:19 +0000 |
| [[FS\_5GSTAR, 111, Block A, 3rd Feb. 1200CET] Unidirectional media flow from server to UE](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=31886) | Thomas Stockhammer | Tue, 2 Feb 2021 07:24:27 +0000 |
| [[FS\_5GSTAR, 111, Block A, 3rd Feb. 1200CET] Unidirectional media flow from server to UE](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=29327) | Hakju Ryan Lee | Tue, 2 Feb 2021 13:54:40 +0900 |
| [[FS\_5GSTAR, 111, Block A, 3rd Feb. 1200CET] Unidirectional media flow from server to UE](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=35784) | Hakju Ryan Lee | Tue, 2 Feb 2021 18:45:34 +0900 |
| [[FS\_5GSTAR, 111, Block A, 3rd Feb. 1200CET] Unidirectional media flow from server to UE](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=54975) | Thomas Stockhammer | Tue, 2 Feb 2021 21:47:48 +0000 |

**Discussion:**

* See 110 discussion

**Decision:**

* TR template to be created
* Information goes into PD taking into account the revision and the comments

**S4-210111** is revised to **S4-210216**.

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| [S4-210216](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210216.zip) | FS\_5GSTAR: Unidirectional media flow from server to UE | Samsung R&D Institute UK | Hakju Ryan Lee |

**S4-210216** is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210112](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210112.zip) | FS\_5GSTAR: Unidirectional media flow from UE to server | Samsung R&D Institute UK | Hakju Ryan Lee |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GSTAR, 112, Block A, 3rd Feb. 1200CET] Unidirectional media flow from UE to server](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=11143) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:13:33 +0000 |
| [[FS\_5GSTAR, 112, Block A, 3rd Feb. 1200CET] Unidirectional media flow from UE to server](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=57327) | Thomas Stockhammer | Tue, 2 Feb 2021 23:06:21 +0000 |

**Discussion:**

* See 110 discussion

**Decision:**

* TR template to be created
* Information goes into PD taking into account the comments

**S4-210112** is agreed.

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| --- | --- | --- | --- |
| [S4-210217](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210217.zip) | Use Case to 5G System Mapping Template - Way forward | Qualcomm, Samsung R&D Institute UK, others | Thomas Stockhammer |

**Presenter:** Thomas Stockhammer

**Discussion:**

* Ali: agreed in principle, mostly the document
* Gilles: fix AIS to IIS

**Decision:**

* Agreed in principle. Revise.
* We will develop a pCR 269 and do an offline on Monday CET. Thomas Sends invite.

**S4-210217** is **revised** in **S4-210268.**

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| --- | --- | --- | --- |
| [S4-210268](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210268.zip) | Use Case to 5G System Mapping Template - Way forward | Qualcomm, Samsung R&D Institute UK, others | Thomas Stockhammer |

**S4-210268** is **agreed.**

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210269](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210269.zip) | pCR26.998 5G System Mapping Template | Qualcomm, Samsung R&D Institute UK, others | Thomas Stockhammer |

**E-Mail Discussion:**

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| [Draft of S4-210269 (Architectures for STAR)](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=32576) | Thomas Stockhammer | Mon, 8 Feb 2021 22:16:52 +0000 |
| [Draft of S4-210269 (Architectures for STAR)](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=48620) | Thomas Stockhammer | Tue, 9 Feb 2021 14:37:21 +0000 |

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| [[FS\_5GSTAR, 269, Block A-ext, 10th Feb. 1200 CET] pCR template on the 5G system mapping](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=50965) | teniou(TeniouGilles) | Tue, 9 Feb 2021 16:48:06 +0000 |

**Decision:**

**S4-210269** is agreed/noted.

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| --- | --- | --- | --- |
| [S4-210113](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210113.zip) | Draft TR 26.998 | Samsung R&D Institute UK | Hakju Ryan Lee |

**E-mail Discussion:**

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| --- | --- | --- |
| [[FS\_5GSTAR, 113, Block A, 3rd Feb. 1200CET] Draft TR 26.998 v0.3.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=7381) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:12:13 +0000 |
| [[FS\_5GSTAR, 113, Block A, 3rd Feb. 1200CET] Draft TR 26.998 v0.3.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24067) | Thomas Stockhammer | Mon, 1 Feb 2021 22:33:11 +0000 |
| [[FS\_5GSTAR, 113, Block A, 3rd Feb. 1200CET] Draft TR 26.998 v0.3.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=31238) | Thomas Stockhammer | Tue, 2 Feb 2021 06:50:41 +0000 |
| [[FS\_5GSTAR, 113, Block A, 3rd Feb. 1200CET] Draft TR 26.998 v0.3.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=28574) | Hakju Ryan Lee | Tue, 2 Feb 2021 13:21:35 +0900 |
| [[FS\_5GSTAR, 113, Block A, 3rd Feb. 1200CET] Draft TR 26.998 v0.3.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=33495) | Hakju Ryan Lee | Tue, 2 Feb 2021 18:14:09 +0900 |
| [[FS\_5GSTAR, 113, Block A, 3rd Feb. 1200CET] Draft TR 26.998 v0.3.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=74364) | teniou(TeniouGilles) | Wed, 3 Feb 2021 11:25:35 +0000 |

**Discussion:**

* Thomas: unclear what happened, really urge that we add all the agreements to the document at the closing plenary.
  + Ryan: thanks for suggestion
  + Thomas: i am ok

**Decision:**

* Thanks Ryan for providing r01.
  + V0.3.0 is already published as S4-210113 <https://portal.3gpp.org/desktopmodules/Specifications/SpecificationDetails.aspx?specificationId=3774>
  + So the next version is v0.3.1 with the following changes in the history

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Change history** | | | | | | | |
| **Date** | **Meeting** | **TDoc** | **CR** | **Rev** | **Cat** | **Subject/Comment** | **New version** |
| 2020-08 | SA4#110 |  |  |  |  | Initial draft | 0.0.3 |
| 2020-11 | SA4#111 | S4-201496 |  |  |  | Agreement during SA4#111e: Use cases added | 0.1.0 |
| 2021-01 | postSA4#111 VIDEO Adhoc | Document withdrawn by mistake |  |  |  | SA4#111e late agreements: S4-201410; S4-201497; S4-201508 | 0.2.0 |
| 2021-01 | SA4#112 | S4-210113 |  |  |  | SA4#111e late agreements: S4-201410; S4-201497; S4-201508  Clause 4.2, 4.3, Annex A.5 updated (Agreement from SA4#111e)  Clause 4.2 further updated (Agreement from telcos prior to SA4#112e) | 0.3.0 |
| 2021-01 | SA4#112 | S4-xxxxxx |  |  |  | Editorial updates on the Change history. Basis for integration of SA4#112 agreements |  |

**S4-210113** is revised to **S4-210213.**

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| [S4-210213](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210213.zip) | TR 26.998v0.3.1 | Samsung R&D Institute UK | Hakju Ryan Lee |

**S4-210213** is agreed**.**

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| --- | --- | --- | --- |
| [S4-210215](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210215.zip) | TR 26.998v0.4.0 | Samsung R&D Institute UK | Hakju Ryan Lee |

**S4-210215** is revised **to S4-210267.**

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| --- | --- | --- | --- |
| [S4-210267](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210267.zip) | TR 26.998v0.5.0 | Samsung R&D Institute UK | Hakju Ryan Lee |

**S4-210267** is presented to SA4 plenary**.**

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| --- | --- | --- | --- |
| [S4-210114](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210114.zip) | FS\_5STAR: Permanent Document v0.2.0 | Samsung R&D Institute UK | Hakju Ryan Lee |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GSTAR, 114, Block A, 3rd Feb. 1200CET] Permanent document v0.2.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=8177) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:12:21 +0000 |
| [[FS\_5GSTAR, 114, Block A, 3rd Feb. 1200CET] Permanent document v0.2.0](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=75224) | teniou(TeniouGilles) | Wed, 3 Feb 2021 11:29:18 +0000 |

**Decision:**

* No comment was received. The (permanent) document **S4-210114** is **agreed** as the basis for further work.

**S4-210114** is agreed.

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| --- | --- | --- | --- |
| [S4-210218](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210218.zip) | FS\_5STAR: Permanent Document v0.3.0 | Samsung R&D Institute UK | Hakju Ryan Lee |

**Presenter:** Hakju Ryan Lee (Samsung)

**Discussion:**

* No comments

**Decision:**

* Agreed

**S4-210218** is **agreed.**

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| --- | --- | --- | --- |
| [S4-210270](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210270.zip) | FS\_5STAR: Permanent Document v0.4.0 | Samsung R&D Institute UK | Hakju Ryan Lee |

**S4-210270** is **presented to SA4 plenary.**

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| --- | --- | --- | --- |
| [S4-210115](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210115.zip) | 5GSTAR: Proposed Updates to Work Plan | Samsung R&D Institute UK | Hakju Ryan Lee |

**S4-210115** is revised to **S4-210222**.

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| --- | --- | --- | --- |
| [S4-210222](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210222.zip) | 5GSTAR: Proposed Updates to Work Plan | Samsung R&D Institute UK | Hakju Ryan Lee |

**Presenter:** Hakju Ryan Lee (Samsung)

**Discussion:**

* Thomas: Really 2 meeting cycles?
  + Ryan: fine either way.
  + Gilles: 1 is better for now
* Lei: any dependency to SA2?
  + Thomas: not foreseen, maybe in Rel-18.

**Decision:**

* Only one meeting cycle -> revise.

**S4-210222** is **revised to S4-210271.**

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| --- | --- | --- | --- |
| [S4-210271](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210271.zip) | 5GSTAR: Proposed Updates to Work Plan | Samsung R&D Institute UK | Hakju Ryan Lee |

**S4-210222** is **agreed without presentation and will be presented for Block-A plenary.**

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| --- | --- | --- | --- |
| [S4-210124](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210124.zip) | [5G\_STAR] pCR Proposed architecture for streaming volumetric video | Fraunhofer HHI | Yago Sanchez de la Fuente |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=10415) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:13:03 +0000 |
| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=55569) | Thomas Stockhammer | Tue, 2 Feb 2021 22:20:04 +0000 |
| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=58610) | Sanchez de la Fuente, Yago | Tue, 2 Feb 2021 23:42:12 +0000 |
| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=70667) | Curcio, Igor (Nokia - FI/Tampere) | Wed, 3 Feb 2021 09:48:18 +0000 |
| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=72382) | Sanchez de la Fuente, Yago | Wed, 3 Feb 2021 10:03:11 +0000 |
| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=61315) | Hakju Ryan Lee | Wed, 3 Feb 2021 13:14:50 +0900 |

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| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=78172) | Sanchez de la Fuente, Yago | Wed, 3 Feb 2021 16:28:08 +0000 |
| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=79929) | Thomas Stockhammer | Wed, 3 Feb 2021 17:14:52 +0000 |
| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=81638) | Sanchez de la Fuente, Yago | Wed, 3 Feb 2021 17:36:58 +0000 |
| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=83242) | Ahmed Hamza | Wed, 3 Feb 2021 18:23:35 +0000 |
| [[FS\_5GSTAR, 124, Block A, 3rd Feb. 1200CET] Proposed architecture for streaming volumetric video](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=85511) | Sanchez de la Fuente, Yago | Wed, 3 Feb 2021 20:08:52 +0000 |

**Discussion:**

* Gilles reviews the e-mail discussion.
* Thomas: Have one question, are we rendering only the volumetric video or a full-scene? Typically you render a scene
  + Yago: only object
  + Imed: explains the complexity, you place it on plane
  + Yago: scene is real scene
  + Imed: disparity adjustment is done automatically
  + We need to check the details on the rendering work flow.
* Thomas: we need to discuss the detailed signals that run over the network.

**Decision:**

* Revise to take into account the offline discussions - likely agreeable.

**S4-210124** is revised to **S4-210219**.

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| [S4-210219](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210219.zip) | [5G\_STAR] pCR Proposed architecture for streaming volumetric video | Fraunhofer HHI | Yago Sanchez de la Fuente |

**Presenter:** Yago Sanchez de la Fuente (Fraunhofer HHI)

**Discussion:**

* Ali: Are we rendering on a plane? If the same orientation, ok. But if you move around this gets more complex.
  + Yago: Orientation is synced to the user.

**Decision:**

* Needs to be mapped to the template. Agreed to the PD.

**S4-210219** is **agreed.**

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| [S4-210151](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210151.zip) | Gaps and architecture extensions for conversational AR services | Ericsson LM | Bo Burman |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 151, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=15405) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:13:07 +0000 |
| [[FS\_5GSTAR, 151, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services(Internet mail)](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=43938) | Kyunghun Jung | Tue, 2 Feb 2021 13:44:39 +0000 |
| [[FS\_5GSTAR, 151, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=56412) | Thomas Stockhammer | Tue, 2 Feb 2021 22:53:40 +0000 |
| [[FS\_5GSTAR, 151, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=73345) | Ali El Essaili | Wed, 3 Feb 2021 10:48:24 +0000 |
| [[FS\_5GSTAR, 151, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=61902) | Hakju Ryan Lee | Wed, 3 Feb 2021 13:27:57 +0900 |

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| [[FS\_5GSTAR, 151, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=76851) | Ali El Essaili | Wed, 3 Feb 2021 15:41:45 +0000 |
| [[FS\_5GSTAR, 151, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=79113) | Thomas Stockhammer | Wed, 3 Feb 2021 16:55:51 +0000 |
| [[FS\_5GSTAR, 151, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=80815) | Ali El Essaili | Wed, 3 Feb 2021 17:31:43 +0000 |
| [[FS\_5GSTAR, 151, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=82201) | Thomas Stockhammer | Wed, 3 Feb 2021 17:57:42 +0000 |
| [[FS\_5GSTAR, 151, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=93642) | Ali El Essaili | Thu, 4 Feb 2021 07:19:36 +0000 |

**Discussion:**

* Gilles and Ali summarize the discussion

**Decision:**

* Agreeable in general, revision should take into account the comments on e-mail.

**S4-210151** is revised to **S4-210220**.

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| [S4-210220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210220.zip) | Gaps and architecture extensions for conversational AR services | Ericsson LM | Bo Burman |

**Presenter: Ali El Essaili (Ericsson)**

**Discussion:**

* Thomas: Does the pose come from the glass to the 5G Phone?
  + Ali: not necessarily
  + Thomas: not clear to me, I am more lost on the use case.

**Decision:**

* Needs to be mapped to the template. Agreed to the PD.

**S4-210220** is agreed.

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| [S4-210173](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210173.zip) | [FS\_5GSTAR] pCR on Use case on AR IoT | Beijing Xiaomi Electronics | Mary-Luc Champel |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=12583) | teniou(TeniouGilles) | Mon, 1 Feb 2021 08:13:36 +0000 |
| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16075) | teniou(TeniouGilles) | Mon, 1 Feb 2021 12:44:32 +0000 |
| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] Gaps and architecture extensions for conversational AR services](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24664) | Thomas Stockhammer | Mon, 1 Feb 2021 22:35:54 +0000 |
| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] pCR on Use case on AR IoT](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16931) | teniou(TeniouGilles) | Mon, 1 Feb 2021 12:44:46 +0000 |
| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] pCR on Use case on AR IoT](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=30523) | Hakju Ryan Lee | Tue, 2 Feb 2021 14:33:39 +0900 |
| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] pCR on Use case on AR IoT](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=50218) | Champel MaryLuc | Tue, 2 Feb 2021 14:53:03 +0000 |
| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] pCR on Use case on AR IoT](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=54414) | Thomas Stockhammer | Tue, 2 Feb 2021 21:30:19 +0000 |
| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] pCR on Use case on AR IoT](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=71744) | Curcio, Igor (Nokia - FI/Tampere) | Wed, 3 Feb 2021 09:59:02 +0000 |
| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] pCR on Use case on AR IoT](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=76000) | Champel MaryLuc | Wed, 3 Feb 2021 12:14:48 +0000 |
| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] pCR on Use case on AR IoT](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=59624) | Hakju Ryan Lee | Wed, 3 Feb 2021 12:42:20 +0900 |

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| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] pCR on Use case on AR IoT](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=76000) | Champel MaryLuc | Wed, 3 Feb 2021 12:14:48 +0000 |
| [[FS\_5GSTAR, 173, Block A, 3rd Feb. 1200CET] pCR on Use case on AR IoT](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=118506) | Champel MaryLuc | Thu, 4 Feb 2021 11:51:45 +0000 |

**Discussion:**

* Thomas: would like to understand if this is a split rendering use case or anything else.
  + ML: not split rendering, will make explicit

**Decision:**

* Generally agreeable, will be revised.

**S4-210173** is revised to **S4-210221**.

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| [S4-210221](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210221.zip) | [FS\_5GSTAR] pCR on Use case on AR IoT | Beijing Xiaomi Electronics | Mary-Luc Champel |

**Presenter:** Mary-Luc Champel

**Discussion:**

* Gilles: please add trademarks as necessary

**Decision:**

* Agreed with comments, will go to TR

**S4-210221** is agreed.

## 10.11 Liaisons and Liaison Responses

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| [S4-210086](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210086.zip) | Discussion on LS on New Standardized 5QIs for 5G-AIS(S2-2009227) | Tencent | Yixue Lei |

**E-mail Discussion:**

See [here](#8ahmy0g7sxyq)

**Decision:**

* Noted thanks

**S4-210086** is noted.

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| [S4-210087](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210087.zip) | Draft Reply LS to S2-2009227 | Tencent | Yixue Lei |

**E-mail Discussion:**

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| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=767) | teniou(TeniouGilles) | Mon, 8 Feb 2021 00:57:17 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=1321) | panqi (E) | Mon, 8 Feb 2021 03:44:25 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=2965) | Thomas Stockhammer | Mon, 8 Feb 2021 03:59:26 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=4374) | yixuelei(雷艺学) | Mon, 8 Feb 2021 05:41:16 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=5191) | Thomas Stockhammer | Mon, 8 Feb 2021 05:53:13 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=7856) | yixuelei(雷艺学) | Mon, 8 Feb 2021 06:13:00 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=9352) | Thomas Stockhammer | Mon, 8 Feb 2021 07:42:03 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=10333) | panqi (E) | Mon, 8 Feb 2021 08:01:24 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=11175) | Thomas Stockhammer | Mon, 8 Feb 2021 08:21:59 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=14538) | Sanchez de la Fuente, Yago | Mon, 8 Feb 2021 09:30:34 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24958) | Pudney, Chris, Vodafone Group | Mon, 8 Feb 2021 12:44:22 +0000 |

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| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=37486) | JJ HuangFu (皇甫建君) | Tue, 9 Feb 2021 10:17:42 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=38217) | Thomas Stockhammer | Tue, 9 Feb 2021 10:20:38 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=39168) | panqi (E) | Tue, 9 Feb 2021 10:39:36 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=39939) | Thomas Stockhammer | Tue, 9 Feb 2021 10:44:19 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=40833) | panqi (E) | Tue, 9 Feb 2021 12:04:16 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=41660) | panqi (E) | Tue, 9 Feb 2021 12:23:01 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=42649) | Thomas Stockhammer | Tue, 9 Feb 2021 12:24:52 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=43482) | Thomas Stockhammer | Tue, 9 Feb 2021 12:25:38 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=44331) | panqi (E) | Tue, 9 Feb 2021 12:44:16 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=45054) | Thomas Stockhammer | Tue, 9 Feb 2021 12:55:02 +0000 |
| [[Reply LS, 006, 075,086,087, Block B, 9th Feb. 1200CET] Reply LS to SA2](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=45780) | panqi (E) | Tue, 9 Feb 2021 13:23:57 +0000 |

**Discussion:**

* See S4-210075

**Decision:**

* merged

**S4-210087** is merged into **S4-210283**.

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| [S4-210075](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210075.zip) | [FS\_XRTraffic] Proposed Reply LS to SA2 (S2-2009227) | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See [here](#8ahmy0g7sxyq):

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Revision: <https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_112-e/Inbox/Drafts/S4-210075%20Proposed%20Reply%20LS%20to%20SA2-on-AIS-r2.docx>
* Qi: Why do we need lower loss rates for uplink?
  + Thomas: Three issues
    - Lower data rates: MTBF is higher than video
    - Control data is less sensitive - can do time warping for older pose
* Fabrice:
  + Typo
  + Also remove if needed, as we will send it later.

**Decision:**

* Agreed

**S4-210075** is revised to **S4-210283**.

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| [S4-210283](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210283.zip) | [FS\_XRTraffic] Proposed Reply LS to SA2 (S2-2009227) | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210283** is agreed.

## 10.12 Any Other Business

Block A Summary was made available in .

Block B Summary is available S4-210330

The report will be made available in [**S4-210336**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_111-e/Docs/S4-210336.zip)**.**

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| [S4-210330](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_112-e/Docs/S4-210330.zip) | VIDEO SWG Report during SA4#112-e | VIDEO SWG Chair (Tencent) | 13.5 |

## 10.13 Work Plan

See time plans for the individual Study items.

## 10.14 Close of the session

The chairman thanked the participants. The participants thanked the chairman.

The online session was closed on February 9, 2021 at 16:37 (CET).

E-mail approval for documents concluded on February 10, 2021 12:00 (CET)

## 10.15 Participants

Tbd from GotoMeeting