Video SWG Minutes during SA4#113e

## 11.1 Opening of the session

Mr. Gilles Teniou (Tencent, Chairman of Video SWG) opens Video SWG on April 7, 2021 at 0830 CEST.

E-mail discussion started already on Tue, 6 Apr 2021 10:08:49 +0000

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| [VIDEO SWG SA4#113-e meeting - Start of Block A](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=75) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:08:49 +0000 |
| [VIDEO SWG SA4#113-e meeting - Start of Block A](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24697) | teniou(TeniouGilles) | Tue, 6 Apr 2021 15:30:43 +0000 |
| [Clarifications on Tdoc email agreements and tomorrow's VIDEO SWG session](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=9903) | teniou(TeniouGilles) | Tue, 6 Apr 2021 11:55:43 +0000 |

**Schedule:**



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

The minutes are shared [online](https://docs.google.com/document/d/1STSRcWE335nRd7QBfbvxeZJHM46p7h9vt6UbZvHu1Pw/edit?usp=sharing).

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

* <https://list.etsi.org/scripts/wa.exe?A1=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO>
* https://list.etsi.org/scripts/wa.exe?A1=ind2104B&L=3GPP\_TSG\_SA\_WG4\_VIDEO

Final Timestamp for e-mail discussions considered in the report: Wed, 7 Apr 2021 22:24:23 +0000

The agenda and the registration of documents are agreed.

## 11.2 Registration of documents

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

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| --- | --- | --- | --- |
| 6.2 | Other 3GPP groups | Plenary | 416 (SA2/5QIs) -> Video SWG |
| 6.3 | Other groups | Plenary | 408 (VRIF/8K VR360) -> Video SWG |

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| 7 | Issues for immediate consideration | Plenary | 421n539n, 429nwp, 437pp, 438pp, 563nwp,473 (email), 526, 573 |

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| 11 | Video SWG | - |   |
| 11.1 | Opening of the session | A |   |
| 11.2 | Registration of documents | A |   |
| 11.3 | Reports and liaisons from other groups | A |   |
| 11.4 | CRs to features in Release 16 and earlier | A |   |
| 11.5 | 8K\_VR\_5G (Operation Points for 8K VR 360 Video over 5G) | B | 434, 435, 457 |
| 11.6 | FS\_VR\_CoGui (Feasibility Study on VR Streaming Conformance and Guidelines) | B |   |
| 11.7 | FS\_5GVideo (Feasibility Study on 5G Video Codec Characteristics) | A | 460, 461, 463, 464, 465, 567, 568, 572458, 459, 462, 520  |
| 11.8 | FS\_XRTraffic (Feasibility Study on Typical Traffic Characteristics for XR Services and other Media) | B | 467, 468, 469466, ~~502~~ |
| 11.9 | FS\_5GSTAR (Feasibility Study on 5G Glass-type AR/MR Devices) | A | 427, 436, 445, 446, 447, 470, 504, 505, 508, 509, 510, 512, 513471 |
| 11.10 | New Work / New Work Items and Study Items | B | 8K TV over 5G: 472 |
| 11.11 | Liaisons and Liaison Responses | B |   |
| 11.12 | Any Other Business | B |   |
| 11.13 | Close of the session | B |   |

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| TDoc | Title | Source | Agenda item |
| [S4-210416](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210416.zip) | Reply LS on New Standardized 5QIs for 5G-AIS (Advanced Interactive Services) | 3GPP SA2 | 6.2 |
| [S4-210408](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210408.zip) | Reply Liaison Statement on 8K VR 360 operation points | VRIF | 6.3 |
| [S4-210434](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210434.zip) | Discussion on addition of Hybrid Log-Gamma (HLG) to VR Video Profiles | BBC, Apple, KPN N.V., Sony Corporation, Intel, EBU. | 11.5 |
| [S4-210435](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210435.zip) | Addition of HLG Transfer Characteristics | BBC, Apple, KPN N.V., Sony Corporation, Intel, EBU. | 11.5 |
| [S4-210457](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210457.zip) | [8K\_VR\_5G] Typical Traffic Characteristics | Qualcomm Incorporated | 11.5 |
| [S4-210429](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210429.zip) | Adding AV1 to the 5G Video Study | Apple, ATEME, AT&T, BBC, Facebook Inc., Google, Intel, Samsung | 11.7 |
| [S4-210437](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210437.zip) | Revised SID of 5G Video | Apple, ATEME, AT&T, BBC, Facebook Inc., Google, Intel, Samsung | 11.7 |
| [S4-210438](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210438.zip) | Proposed update to TR 26.955 | Apple, ATEME, AT&T, BBC, Facebook Inc., Google, Intel, Samsung | 11.7 |
| [S4-210458](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210458.zip) | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | 11.7 |
| [S4-210459](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210459.zip) | TR26.955: Proposed Editor's Update | Qualcomm Incorporated | 11.7 |
| [S4-210460](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210460.zip) | pCR26.955: Verification | Qualcomm Incorporated | 11.7 |
| [S4-210461](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210461.zip) | [FS\_5G\_Video] Status | Qualcomm Incorporated | 11.7 |
| [S4-210462](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210462.zip) | pCR26.955: FullHD Streaming | Qualcomm Incorporated | 11.7 |
| [S4-210463](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210463.zip) | pCR26.955: Messaging and Social Sharing | Qualcomm Incorporated | 11.7 |
| [S4-210464](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210464.zip) | pCR26.955: Updates to Reference Sequences | Qualcomm Incorporated | 11.7 |
| [S4-210465](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210465.zip) | [FS\_5G\_Video] Screen Content Sequence | Qualcomm Incorporated | 11.7 |
| S4-210520 | AVC anchor | InterDigital, Europe, Ltd. | 11.7 |
| [S4-210563](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210563.zip) | Concerns related to the proposed update to the FS\_5GVideo Work Item | InterDigital, Europe, Ltd., Qualcomm Incorporated, Fraunhofer-Gesellschaft, Ericsson, Nokia, Dolby, Orange, Sisvel, Philips | 11.7 |
| [S4-210567](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210567.zip) | Updates to 4K-TV scenario | Ericsson LM, Interdigital, ATEME | 11.7 |
| [S4-210568](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210568.zip) | Sequences for social messaging scenario | Ericsson LM, Qualcomm Inc. | 11.7 |
| [S4-210572](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210572.zip) | [FS\_5GVideo] On Messaging and Social Sharing source sequences | Tencent | 11.7 |
| [S4-210466](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210466.zip) | Proposed Updates to Work Plan for FS\_XRTraffic | Qualcomm Incorporated | 11.8 |
| [S4-210467](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210467.zip) | [FS\_XRTraffic] Proposed TR26.9xx | Qualcomm Incorporated | 11.8 |
| [S4-210468](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210468.zip) | [FS\_XRTraffic] SA4 and RAN1 Collaboration Proposal | Qualcomm Incorporated | 11.8 |
| [S4-210469](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210469.zip) | [FS\_XRTraffic] Updates to Quality Evaluation Framework | Qualcomm Incorporated | 11.8 |
| S4-210502 | Discussion on the packet level importance in the XR Services | HUAWEI Technologies Japan K.K. | 11.8 |
| [S4-210427](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210427.zip) | Introduction and overview of ETSI AR Framework Architecture | Perey Research & Consulting | 11.9 |
| [S4-210436](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210436.zip) | [5G\_STAR] Comparison of TR26.998 Architecture and ETSI ISG AR Framework GS 003 | Perey Research & Consulting | 11.9 |
| [S4-210445](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210445.zip) | Proposed Architectures for AR Conversational Services | HUAWEI TECHNOLOGIES Co. Ltd. | 11.9 |
| [S4-210446](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210446.zip) | [5GSTAR] pCR on TR 26.998 to add use case on AR Gaming | China Mobile Com. Corporation | 11.9 |
| [S4-210447](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210447.zip) | Proposed Functionalities of 5G EDGAR | China Mobile Com. Corporation | 11.9 |
| [S4-210470](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210470.zip) | [FS\_5GSTAR] Device Considerations | Qualcomm Incorporated | 11.9 |
| S4-210471 | [FS\_5GSTAR] Proposed Updates to Architectures | Qualcomm Incorporated | 11.9 |
| [S4-210504](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210504.zip) | [5GSTAR] Updated Work Plan | Samsung Guangzhou Mobile R&D | 11.9 |
| [S4-210505](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210505.zip) | [5GSTAR] pCR on Mapping to 5G System Architecture | Samsung Guangzhou Mobile R&D | 11.9 |
| [S4-210508](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210508.zip) | FS\_5GSTAR: Content formats and codecs pCR | Samsung Electronics Czech | 11.9 |
| [S4-210509](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210509.zip) | [5GSTAR] pCR on architecture & media flow for interactive services | Samsung Guangzhou Mobile R&D | 11.9 |
| [S4-210510](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210510.zip) | Draft TR 26.998 | Samsung Guangzhou Mobile R&D | 11.9 |
| [S4-210512](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210512.zip) | [5G\_STAR] 5GMS Immersive downlink streaming procedures for EDGAR UEs | Fraunhofer HHI | 11.9 |
| [S4-210513](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210513.zip) | [5G\_STAR] 5GMS Immersive downlink streaming procedures and architecture for Edge-assisted STAR UEs | Fraunhofer HHI | 11.9 |
| [S4-210472](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210472.zip) | 8K TV over 5G | Qualcomm Incorporated | 11.10 |
| S4-210453 | Information from ITU-T SG 12 on Online Gaming | Qualcomm Incorporated | 11.12 |

## 11.3 Reports and liaisons from other groups

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| [S4-210416](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210416.zip) | Reply LS on New Standardized 5QIs for 5G-AIS (Advanced Interactive Services) | 3GPP SA2 | Jayeeta Saha |

**E-mail Discussion:**

**Presenter:**

**Online Discussion:**

**Decision:**

**S4-210416** is noted/replied.

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| [S4-210408](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210408.zip) | Reply Liaison Statement on 8K VR 360 operation points | VRIF | Jayeeta Saha |

**E-mail Discussion:**

**Presenter:**

**Online Discussion:**

**Decision:**

**S4-210408** is noted/replied.

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

none.

## 11.5 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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| [S4-210434](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210434.zip) | Discussion on addition of Hybrid Log-Gamma (HLG) to VR Video Profiles | BBC, Apple, KPN N.V., Sony Corporation, Intel, EBU. | Paul Gorley |

**E-mail Discussion:**

**Presenter:** Paul Gorley (BBC)

**Online Discussion:**

**Decision:**

**S4-210434** is noted/agreed/revised.

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| [S4-210435](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210435.zip) | Addition of HLG Transfer Characteristics | BBC, Apple, KPN N.V., Sony Corporation, Intel, EBU. | Paul Gorley |

**E-mail Discussion:**

**Presenter:** Paul Gorley (BBC)

**Online Discussion:**

**Decision:**

**S4-210435** is noted/agreed/revised.

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| [S4-210457](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210457.zip) | [8K\_VR\_5G] Typical Traffic Characteristics | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210457** is noted/agreed/revised.

## 11.6 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)

## 11.7 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)

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| [S4-210429](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210429.zip) | Adding AV1 to the 5G Video Study | Apple, ATEME, AT&T, BBC, Facebook Inc., Google, Intel, Samsung | Fabrice Plante |

**S4-210429** was dealt in opening SA4 plenary under agenda item 7 and is noted without presentation.

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| [S4-210563](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210563.zip) | Concerns related to the proposed update to the FS\_5GVideo Work Item | InterDigital, Europe, Ltd., Qualcomm Incorporated, Fraunhofer-Gesellschaft, Ericsson, Nokia, Dolby, Orange, Sisvel, Philips | Gaelle Martin-Cocher |

**S4-210563** was dealt in opening SA4 plenary under agenda item 7 and is noted without presentation.

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| [S4-210437](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210437.zip) | Revised SID of 5G Video | Apple, ATEME, AT&T, BBC, Facebook Inc., Google, Intel, Samsung | Fabrice Plante |

**S4-210437** was dealt in opening SA4 plenary under agenda item 7 and is postponed.

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| [S4-210438](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210438.zip) | Proposed update to TR 26.955 | Apple, ATEME, AT&T, BBC, Facebook Inc., Google, Intel, Samsung | Fabrice Plante |

**S4-210438** was dealt in opening SA4 plenary under agenda item 7 and is postponed.

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| [S4-210458](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210458.zip) | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 458, Block A, 7th Apr. 2200CEST] Workplan update](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=17963) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:26:25 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210458** is noted/agreed/revised.

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| [S4-210459](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210459.zip) | TR26.955: Proposed Editor's Update | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 459, Block A, 7th Apr. 2200CEST] Proposed Editor's updates to TR](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=19461) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:26:31 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210459** is noted/agreed/revised.

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| [S4-210460](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210460.zip) | pCR26.955: Verification | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 460, Block A, 7th Apr. 2200CEST] Verification](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=18707) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:26:17 +0000 |
| [[FS\_5GVideo, 460, Block A, 7th Apr. 2200CEST] Verification](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=63960) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:29:48 +0000 |
| [[FS\_5GVideo, 460, Block A, 7th Apr. 2200CEST] Verification](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=69389) | Michel Kerdranvat | Wed, 7 Apr 2021 16:51:08 +0000 |
| [[FS\_5GVideo, 460, Block A, 7th Apr. 2200CEST] Verification](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=70057) | Thomas Stockhammer | Wed, 7 Apr 2021 17:31:29 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210460** is noted/agreed/revised.

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| [S4-210461](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210461.zip) | [FS\_5G\_Video] Status | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 461, Block A, 7th Apr. 2200CEST] Status](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16445) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:26:14 +0000 |
| [[FS\_5GVideo, 461, Block A, 7th Apr. 2200CEST] Status](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=64769) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:35:53 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210461** is noted/agreed/revised.

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| [S4-210462](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210462.zip) | pCR26.955: FullHD Streaming | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 462, Block A, 7th Apr. 2200CEST] FullHD streaming sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=21160) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:31:43 +0000 |
| [[FS\_5GVideo, 462, Block A, 7th Apr. 2200CEST] FullHD streaming sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=65339) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:41:45 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210462** is noted/agreed/revised.

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| [S4-210463](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210463.zip) | pCR26.955: Messaging and Social Sharing | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 463, Block A, 7th Apr. 2200CEST] Messaging and social sharing](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=28527) | Fabrice Plante | Tue, 6 Apr 2021 11:59:03 -0700 |
| [[FS\_5GVideo, 463, Block A, 7th Apr. 2200CEST] Messaging and social sharing](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=17193) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:26:13 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210463** is noted/agreed/revised.

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| [S4-210464](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210464.zip) | pCR26.955: Updates to Reference Sequences | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 464, Block A, 7th Apr. 2200CEST] Updates on reference sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=14102) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:26:02 +0000 |
| [[FS\_5GVideo, 464, Block A, 7th Apr. 2200CEST] Updates on reference sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=65992) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:46:49 +0000 |
| [[FS\_5GVideo, 464, Block A, 7th Apr. 2200CEST] Updates on reference sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=67585) | Michel Kerdranvat | Wed, 7 Apr 2021 16:25:42 +0000 |
| [[FS\_5GVideo, 464, Block A, 7th Apr. 2200CEST] Updates on reference sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=68558) | Thomas Stockhammer | Wed, 7 Apr 2021 16:32:30 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210464** is noted/agreed/revised.

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| [S4-210465](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210465.zip) | [FS\_5G\_Video] Screen Content Sequence | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 465, Block A, 7th Apr. 2200CEST] Screen Content Sequence](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=13337) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:26:05 +0000 |
| [[FS\_5GVideo, 465, Block A, 7th Apr. 2200CEST] Screen Content Sequence](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=71029) | Fabrice Plante | Wed, 7 Apr 2021 10:56:00 -0700 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210465** is noted/agreed/revised.

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| S4-210520 | AVC anchor | InterDigital, Europe, Ltd. | Gaelle Martin-Cocher |

**E-mail Discussion:**

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

**Online Discussion:**

**Decision:**

**S4-210520** is noted/agreed/revised.

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| [S4-210567](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210567.zip) | Updates to 4K-TV scenario | Ericsson LM, Interdigital, ATEME | Bo Burman |

**E-mail Discussion:**

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| [[FS\_5GVideo, 567, Block A, 7th Apr. 2200CEST] Updates to 4KTV scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=12571) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:26:08 +0000 |
| [[FS\_5GVideo, 567, Block A, 7th Apr. 2200CEST] Updates to 4KTV scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=50854) | Thomas Stockhammer | Wed, 7 Apr 2021 14:38:50 +0000 |

**Presenter:** Lukasz Litwic (Ericsson)

**Online Discussion:**

**Decision:**

**S4-210567** is noted/agreed/revised.

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| [S4-210568](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210568.zip) | Sequences for social messaging scenario | Ericsson LM, Qualcomm Inc. | Bo Burman |

**E-mail Discussion:**

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| [[FS\_5GVideo, 568, Block A, 7th Apr. 2200CEST] Sequences for social messaging scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=15664) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:26:11 +0000 |

**Presenter:** Lukasz Litwic (Ericsson)

**Online Discussion:**

**Decision:**

**S4-210568** is noted/agreed/revised.

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| [S4-210572](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210572.zip) | [FS\_5GVideo] On Messaging and Social Sharing source sequences | Tencent | Gilles Teniou |

**E-mail Discussion:**

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| [[FS\_5GVideo, 572, Block A, 7th Apr. 2200CEST] On Messaging and Social sharing source sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=14874) | teniou(TeniouGilles) | Tue, 6 Apr 2021 14:26:10 +0000 |
| [[FS\_5GVideo, 572, Block A, 7th Apr. 2200CEST] On Messaging and Social sharing source sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=71614) | Thomas Stockhammer | Wed, 7 Apr 2021 18:34:18 +0000 |
| [[FS\_5GVideo, 572, Block A, 7th Apr. 2200CEST] On Messaging and Social sharing source sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=76042) | teniou(TeniouGilles) | Wed, 7 Apr 2021 20:32:12 +0000 |
| [[FS\_5GVideo, 572, Block A, 7th Apr. 2200CEST] On Messaging and Social sharing source sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=76907) | Thomas Stockhammer | Wed, 7 Apr 2021 21:27:17 +0000 |
| [[FS\_5GVideo, 572, Block A, 7th Apr. 2200CEST] On Messaging and Social sharing source sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=78924) | teniou(TeniouGilles) | Wed, 7 Apr 2021 22:24:23 +0000 |

**Presenter:** Gilles Teniou (Tencent)

**Online Discussion:**

**Decision:**

**S4-210572** is noted/agreed/revised.

## 11.8 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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| [S4-210466](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210466.zip) | Proposed Updates to Work Plan for FS\_XRTraffic | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210466** is noted/agreed/revised.

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| [S4-210467](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210467.zip) | [FS\_XRTraffic] Proposed TR26.9xx | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210467** is noted/agreed/revised.

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| [S4-210468](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210468.zip) | [FS\_XRTraffic] SA4 and RAN1 Collaboration Proposal | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210468** is noted/agreed/revised.

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| [S4-210469](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210469.zip) | [FS\_XRTraffic] Updates to Quality Evaluation Framework | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210469** is noted/agreed/revised.

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| S4-210502 | Discussion on the packet level importance in the XR Services | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

**Presenter:** Qi Pan (Huawei)

**Online Discussion:**

**Decision:**

**S4-210502** is noted/agreed/revised.

## 11.9 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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| [S4-210427](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210427.zip) | Introduction and overview of ETSI AR Framework Architecture | Perey Research & Consulting | Christine Perey |

**E-mail Discussion:**

See S4-210436

**Presenter:** Christine Perey (Perey Research & Consulting)

**Online Discussion:**

* See S4-210436

**Decision:**

**S4-210427** is noted.

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| [S4-210436](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210436.zip) | [5G\_STAR] Comparison of TR26.998 Architecture and ETSI ISG AR Framework GS 003 | Perey Research & Consulting | Christine Perey |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 427&436, Block A, 7th Apr. 1200CEST] ETSI ARF](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=750) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:26:20 +0000 |
| [[FS\_5GSTAR, 427&436, Block A, 7th Apr. 1200CEST] ETSI ARF](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=27888) | Christine Perey | Tue, 6 Apr 2021 20:19:13 +0200 |
| [[FS\_5GSTAR, 427&436, Block A, 7th Apr. 1200CEST] ETSI ARF](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=21847) | Hakju Ryan Lee | Tue, 6 Apr 2021 23:34:47 +0900 |
| [[FS\_5GSTAR, 427&436, Block A, 7th Apr. 1200CEST] ETSI ARF](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=39875) | Thomas Stockhammer | Wed, 7 Apr 2021 04:09:25 +0000 |
| [[FS\_5GSTAR, 427&436, Block A, 7th Apr. 1200CEST] ETSI ARF(Internet mail)](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=58674) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:10:40 +0000 |

**Presenter:** Christine Perey (Perey Research & Consulting)

**Online Discussion:**

* Christine:
	+ Table 1 is showing that there is a correspondence between ETSI and 3GPP.
	+ Table 2 has more details and what is missing
	+ Clause 2 is most important
	+ Thomas:
		- I disagree that chipset manufacturers in Khronos do not understand 5G. I would prefer to make this incremental rather changing in principle. Our preference remains that we use Khronos/OpenXR/glTF/Vulkan
		- Some aspects are more application centric
	+ Christine: request to analyse Table 2 in an offline work.
	+ Ryan: agree with Thomas, would prefer more concrete aspects that need to be done.
* Gilles: our scope may be more focussed. We can add some information to PD
* Jerome:
	+ 3D map is a very important function. May need interoperability.
	+ Vision Engine includes too many functions, should be broken down
* Mary-Luc: Work from ISG is great, very detailed. But our scope is to focus on 5G specific aspects. We spent time to have a simple architecture.
* Christine: by adopting the ARF architecture, we simplify. Cluster sub-function in logical groups. It simplifies the architecture. We want to do something in a follow-up.
* Frederic: Familiar on the work. Seen that ARF has matured. There are reference points. Will they be specified?
	+ Christine: We have published group specifications for architecture. We are now working on reference point requirements. Most work is on world representation and world storage so that we can have more discussion. We also started to look into world capture.
	+ Frederic: Which reference points AR-15 and AR-16?
	+ Muriel: We are not planning to define specifications for each reference point, and will look at existing specifications developed outside ETSI.
* Gilles:
	+ propose to add the information in the permanent document
	+ Come back with more input

**Decision:**

* Content is included in permanent document.
* Invited to provide more concrete input for next meeting
* Rapporteur will add to PD.

**S4-210436** is noted.

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| [S4-210445](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210445.zip) | Proposed Architectures for AR Conversational Services | HUAWEI TECHNOLOGIES Co. Ltd. | Yan Liu |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=9183) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:52:56 +0000 |
| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=11669) | Thorsten Lohmar | Tue, 6 Apr 2021 13:39:05 +0000 |
| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=20262) | Liuyan (Scarlett) | Tue, 6 Apr 2021 14:29:37 +0000 |
| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=25485) | Ali El Essaili | Tue, 6 Apr 2021 15:43:01 +0000 |
| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=26456) | Liuyan (Scarlett) | Tue, 6 Apr 2021 16:14:51 +0000 |
| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=27235) | Liuyan (Scarlett) | Tue, 6 Apr 2021 16:26:09 +0000 |
| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=31966) | Imed Bouazizi | Wed, 7 Apr 2021 00:17:28 +0000 |
| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24022) | Hakju Ryan Lee | Wed, 7 Apr 2021 00:29:25 +0900 |
| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=44155) | Liuyan (Scarlett) | Wed, 7 Apr 2021 05:54:09 +0000 |
| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=48346) | Liuyan (Scarlett) | Wed, 7 Apr 2021 07:59:50 +0000 |
| [[FS\_5GSTAR, 445, Block A, 7th Apr. 1200CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=34822) | Hyun-Koo Yang | Wed, 7 Apr 2021 10:11:43 +0900 |
| [[FS\_5GSTAR, 445, Block A, 9th Apr. 0600CEST] Proposed Architectures for AR Conversational Services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=57710) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:10:30 +0000 |

**Presenter:** Yan Liu (Huawei)

**Online Discussion:**

**Decision:**

* Continue e-mail discussion

**S4-210445** is noted/agreed/revised.

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| [S4-210446](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210446.zip) | [5GSTAR] pCR on TR 26.998 to add use case on AR Gaming | China Mobile Com. Corporation | Yujian Yin |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 446, Block A, 7th Apr. 1200CEST] Use case on AR gaming](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=1508) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:28:54 +0000 |
| [[FS\_5GSTAR, 446, Block A, 7th Apr. 1200CEST] Use case on AR gaming](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=33588) | Imed Bouazizi | Wed, 7 Apr 2021 00:49:30 +0000 |
| [[FS\_5GSTAR, 446, Block A, 7th Apr. 1200CEST] Use case on AR gaming](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=36744) | [[log in to unmask]](https://list.etsi.org/scripts/wa.exe?LOGON=A1%3Dind2104A%26L%3D3GPP_TSG_SA_WG4_VIDEO) | Wed, 7 Apr 2021 10:52:07 +0800 |
| [[FS\_5GSTAR, 446, Block A, 7th Apr. 1200CEST] Use case on AR gaming](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=60301) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:10:55 +0000 |

**Presenter:** Yujian Yin (CMCC)

**Online Discussion:**

* Thomas: not clear what the exact what the additional aspects are that need to be added. Could be added to PD with questions
	+ Ryan: it is already in PD
* Mary-Luc: it would be good to know how this use case is different from existing ones.

**Decision:**

* Note the document and ask for more information on what additional aspects are new to address this. Analysis on standardization needs may be done.

**S4-210446** is noted.

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| [S4-210447](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210447.zip) | Proposed Functionalities of 5G EDGAR | China Mobile Com. Corporation | Yujian Yin |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 447, Block A, 7th Apr. 1200CEST] 5G\_EDGAR functionalities](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=2194) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:30:46 +0000 |
| [[FS\_5GSTAR, 447, Block A, 7th Apr. 1200CEST] 5G\_EDGAR functionalities](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=22598) | Hakju Ryan Lee | Tue, 6 Apr 2021 23:46:12 +0900 |
| [[FS\_5GSTAR, 447, Block A, 7th Apr. 1200CEST] 5G\_EDGAR functionalities](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=34219) | Imed Bouazizi | Wed, 7 Apr 2021 00:55:18 +0000 |
| [[FS\_5GSTAR, 447, Block A, 7th Apr. 1200CEST] 5G\_EDGAR functionalities](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=35934) | [[log in to unmask]](https://list.etsi.org/scripts/wa.exe?LOGON=A1%3Dind2104A%26L%3D3GPP_TSG_SA_WG4_VIDEO) | Wed, 7 Apr 2021 10:51:29 +0800 |
| [[FS\_5GSTAR, 447, Block A, 7th Apr. 1200CEST] 5G\_EDGAR functionalities](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=40766) | Hakju Ryan Lee | Wed, 7 Apr 2021 13:14:40 +0900 |
| [[FS\_5GSTAR, 447, Block A, 7th Apr. 1200CEST] 5G\_EDGAR functionalities](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=61136) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:11:02 +0000 |
| [[FS\_5GSTAR, 447, Block A, 7th Apr. 1200CEST] 5G\_EDGAR functionalities](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=66777) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:53:21 +0000 |

**Presenter:** Yujian Yin (CMCC)

**Online Discussion:**

* Gilles summarizes the discussion
* Ryan: text is almost identical, what needs to change. Unclear what the proposal is

**Decision:**

* Noted, but invite for revised architecture.

**S4-210447** is noted.

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| [S4-210470](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210470.zip) | [FS\_5GSTAR] Device Considerations | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=2883) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:32:37 +0000 |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=29133) | Sanchez de la Fuente, Yago | Tue, 6 Apr 2021 20:02:34 +0000 |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=29807) | Thomas Stockhammer | Tue, 6 Apr 2021 20:11:37 +0000 |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=31355) | Champel MaryLuc | Tue, 6 Apr 2021 22:54:49 +0000 |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=23205) | Hakju Ryan Lee | Tue, 6 Apr 2021 23:59:33 +0900 |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=54916) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:10:04 +0000 |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=72403) | Thomas Stockhammer | Wed, 7 Apr 2021 18:57:47 +0000 |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=73166) | Sanchez de la Fuente, Yago | Wed, 7 Apr 2021 19:21:20 +0000 |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=74079) | Ahmed Hamza | Wed, 7 Apr 2021 20:08:04 +0000 |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=74933) | teniou(TeniouGilles) | Wed, 7 Apr 2021 20:14:34 +0000 |
| [[FS\_5GSTAR, 470, Block A, 7th Apr. 1200CEST] Device considerations](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=77923) | Champel MaryLuc | Wed, 7 Apr 2021 22:22:15 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

* Thomas: explains the situation
	+ Yago: support to clarify the situation

**Decision:**

* Offline discussion on Friday, April 9, 1pm cest

**S4-210470** is revised to **S4-210553**.

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| [S4-210553](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210553.zip) | [FS\_5GSTAR] Device Considerations | Qualcomm Incorporated | Thomas Stockhammer |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210553** is noted/revised/agreed.

|  |  |  |  |
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| S4-210471 | [FS\_5GSTAR] Proposed Updates to Architectures | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210471** is withdrawn.

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| --- | --- | --- | --- |
| [S4-210504](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210504.zip) | [5GSTAR] Updated Work Plan | Samsung Guangzhou Mobile R&D | Hakju Ryan Lee |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GSTAR, 504, Block A, 7th Apr. 1200CEST] Updated Workplan](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=3570) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:34:03 +0000 |
| [[FS\_5GSTAR, 504, Block A, 7th Apr. 1200CEST] Updated Workplan](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=30796) | Thomas Stockhammer | Tue, 6 Apr 2021 20:24:33 +0000 |
| [[FS\_5GSTAR, 504, Block A, 7th Apr. 1200CEST] Updated Workplan](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=32853) | Hakju Ryan Lee | Wed, 7 Apr 2021 09:36:49 +0900 |
| [[FS\_5GSTAR, 504, Block A, 7th Apr. 1200CEST] Updated Workplan](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=49188) | Hakju Ryan Lee | Wed, 7 Apr 2021 17:39:00 +0900 |
| [[FS\_5GSTAR, 504, Block A, 9th Apr. 0600CEST] Updated Workplan](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=56797) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:10:21 +0000 |

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

**Online Discussion:**

* Will be revised offline

**Decision:**

**S4-210504** is noted/agreed/revised.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210505](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210505.zip) | [5GSTAR] pCR on Mapping to 5G System Architecture | Samsung Guangzhou Mobile R&D | Hakju Ryan Lee |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GSTAR, 505, Block A, 7th Apr. 1200CEST] Mapping to 5GS architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=4253) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:35:16 +0000 |
| [[FS\_5GSTAR, 505, Block A, 7th Apr. 1200CEST] Mapping to 5GS architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=53018) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:09:30 +0000 |

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

**Online Discussion:**

* Ali: is this any binding text?
	+ Ryan: It is just an introductory text

**Decision:**

**S4-210505** is agreed.

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| [S4-210508](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210508.zip) | FS\_5GSTAR: Content formats and codecs pCR | Samsung Electronics Czech | Sungryeul Rhyu |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 508, Block A, 7th Apr. 1200CEST] Content formats and codecs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=4947) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:38:19 +0000 |
| [[FS\_5GSTAR, 508, Block A, 7th Apr. 1200CEST] Content formats and codecs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=38185) | Imed Bouazizi | Wed, 7 Apr 2021 03:20:30 +0000 |
| [[FS\_5GSTAR, 508, Block A, 7th Apr. 1200CEST] Content formats and codecs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=43535) | Sungryeul Rhyu | Wed, 7 Apr 2021 13:32:46 +0900 |
| [[FS\_5GSTAR, 508, Block A, 9th Apr. 0600CEST] Content formats and codecs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=55894) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:10:13 +0000 |

**Presenter:** Sungryeul Rhyu (Samsung)

**Online Discussion:**

* Gilles summarizes the discussion
* Ryan mentions
* Thomas:
	+ We are not saying that MPEG Scene Description needs to be added, just general scene
	+ We also believe we need well-defined entry point which is a scene description. A 3D object is not an entry point. There needs to be a reference space.
* Jerome: We are looking in ARF in defining some anchors and mappings.
* Offline discussion continues - create revision.

**Decision:**

**S4-210508** is noted/agreed/revised.

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| --- | --- | --- | --- |
| [S4-210509](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210509.zip) | [5GSTAR] pCR on architecture & media flow for interactive services | Samsung Guangzhou Mobile R&D | Hakju Ryan Lee |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GSTAR, 509, Block A, 7th Apr. 1200CEST] Architecture and media flow for interactive services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=5640) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:39:12 +0000 |
| [[FS\_5GSTAR, 509, Block A, 7th Apr. 1200CEST] Architecture and media flow for interactive services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=10642) | Thorsten Lohmar | Tue, 6 Apr 2021 13:33:43 +0000 |
| [[FS\_5GSTAR, 509, Block A, 7th Apr. 1200CEST] Architecture and media flow for interactive services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=39005) | Imed Bouazizi | Wed, 7 Apr 2021 03:29:53 +0000 |
| [[FS\_5GSTAR, 509, Block A, 7th Apr. 1200CEST] Architecture and media flow for interactive services](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=35088) | Hakju Ryan Lee | Wed, 7 Apr 2021 10:55:52 +0900 |

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

**Online Discussion:**

**Decision:**

**S4-210509** is noted/agreed/revised.

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| [S4-210510](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210510.zip) | Draft TR 26.998 | Samsung Guangzhou Mobile R&D | Hakju Ryan Lee |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 510, Block A, 7th Apr. 1200CEST] Draft TR 26.998](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=6359) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:40:18 +0000 |
| [[FS\_5GSTAR, 510, Block A, 7th Apr. 1200CEST] Draft TR 26.998](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=41569) | Thomas Stockhammer | Wed, 7 Apr 2021 04:25:11 +0000 |
| [[FS\_5GSTAR, 510, Block A, 7th Apr. 1200CEST] Draft TR 26.998](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=42484) | Hakju Ryan Lee | Wed, 7 Apr 2021 13:31:38 +0900 |
| [[FS\_5GSTAR, 510, Block A, 7th Apr. 1200CEST] Draft TR 26.998](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=59501) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:10:47 +0000 |

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

**Online Discussion:**

* none

**Decision:**

* agreed

**S4-210510** is agreed.

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| [S4-210512](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210512.zip) | [5G\_STAR] 5GMS Immersive downlink streaming procedures for EDGAR UEs | Fraunhofer HHI | Yago Sanchez de la Fuente |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GSTAR, 512, Block A, 7th Apr. 1200CEST] Immersive downlink procedures for EDGAR UEs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=7041) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:41:13 +0000 |
| [[FS\_5GSTAR, 512, Block A, 7th Apr. 1200CEST] Immersive downlink procedures for EDGAR UEs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=37479) | Imed Bouazizi | Wed, 7 Apr 2021 03:03:50 +0000 |
| [[FS\_5GSTAR, 512, Block A, 7th Apr. 1200CEST] Immersive downlink procedures for EDGAR UEs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=45797) | Sanchez de la Fuente, Yago | Wed, 7 Apr 2021 06:26:47 +0000 |
| [[FS\_5GSTAR, 512, Block A, 7th Apr. 1200CEST] Immersive downlink procedures for EDGAR UEs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=47756) | Sanchez de la Fuente, Yago | Wed, 7 Apr 2021 07:19:33 +0000 |
| [[FS\_5GSTAR, 512, Block A, 9th Apr. 0600CEST] Immersive downlink procedures for EDGAR UEs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=53880) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:09:50 +0000 |

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

**Online Discussion:**

**Decision:**

**S4-210512** is noted/agreed/revised.

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| [S4-210513](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210513.zip) | [5G\_STAR] 5GMS Immersive downlink streaming procedures and architecture for Edge-assisted STAR UEs | Fraunhofer HHI | Yago Sanchez de la Fuente |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GSTAR, 513, Block A, 7th Apr. 1200CEST] Immersive downlink procedures for Edge-assisted STAR UEs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=7751) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:42:20 +0000 |
| [[FS\_5GSTAR, 513, Block A, 7th Apr. 1200CEST] Immersive downlink procedures for Edge-assisted STAR UEs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=45152) | Imed Bouazizi | Wed, 7 Apr 2021 06:08:04 +0000 |
| [[FS\_5GSTAR, 513, Block A, 9th Apr. 0600CEST] Immersive downlink procedures for Edge-assisted STAR UEs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=61954) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:11:12 +0000 |
| [[FS\_5GSTAR, 513, Block A, 9th Apr. 0600CEST] Immersive downlink procedures for Edge-assisted STAR UEs](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=62957) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:11:23 +0000 |

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

**Online Discussion:**

**Decision:**

**S4-210512** is noted/agreed/revised.

## 11.10 New Work / New Work Items and Study Items

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| [S4-210472](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210472.zip) | 8K TV over 5G | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[NEW WORK, 472, Block A, 7th Apr. 1200CEST] New Work Item description on 8K TV over 5G](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=8475) | teniou(TeniouGilles) | Tue, 6 Apr 2021 10:50:04 +0000 |
| [[NEW WORK, 472, Block A, 7th Apr. 1200CEST] New Work Item description on 8K TV over 5G](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=46858) | Thomas Stockhammer | Wed, 7 Apr 2021 06:35:57 +0000 |
| [[NEW WORK, 472, Block A, 7th Apr. 1200CEST] New Work Item description on 8K TV over 5G](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=49980) | Thomas Stockhammer | Wed, 7 Apr 2021 12:01:25 +0000 |
| [[NEW WORK, 472, Block A, 7th Apr. 1200CEST] New Work Item description on 8K TV over 5G](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=51447) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:08:16 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

* Thomas: have revision
* Gilles: 8K association is relevant as well
	+ Thomas: not necessarily for CMAF, but we can check
	+ Gilles: does not have to be listed.
* Paul: add support from Sony Europe B.V.
* Thomas: just a comment that HFR is not added and will not be. If you have a comment, let me know. This would mean that you can do 4K HFR and 8K regular frame rate.

**Decision:**

* Revised, expect to be agreed for closing plenary block A.

**S4-210472** is revised to **S4-210551**.

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| [S4-210551](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210551.zip) | 8K TV over 5G | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[NEW WORK, 551, Block A, 9th Apr. 0600CEST] New Work Item description on 8K TV over 5G](https://list.etsi.org/scripts/wa.exe?A2=ind2104A&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=52287) | teniou(TeniouGilles) | Wed, 7 Apr 2021 15:08:32 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210551** is revised/noted/agreed.

## 11.11 Liaisons and Liaison Responses

## 11.12 Any Other Business

|  |  |  |  |
| --- | --- | --- | --- |
| S4-210453 | Information from ITU-T SG 12 on Online Gaming | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

**Decision:**

**S4-210472** is noted/agreed/revised.

Block A Summary

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)**.**

## 11.13 Work Plan

See time plans for the individual Study items.

## 11.14 Close of the session

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

The online session was closed on November 18, 2020 at 18:11 (CET).

E-mail approval for documents will conclude on November 19, 2020 19:00 (CET)

## 11.15 Participants

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** |  | **COMPANY** | **Attended** |
| Stockhammer | **Thomas** | **Qualcomm Incorporated** | Yes |
| Teniou | **Gilles** | **Tencent** |  |
| Curcio | **Igor** | **Nokia** |  |
| Oh | **Sejin** | **LG Electronics Inc.** |  |
| Lee | **Brian** | **Dolby Laboratories**  |  |
| Singh | **Gurdeep** | **Fraunhofer HHI** |  |
| Thienot | **Cedric** | **Expway** |  |
| Tan | **Peng** | **TELUS** |  |
| Champel | **Mary-Luc** | **XiaoMi** |  |
| Yee Sin | **Chan** | **Facebook** | yes |
| Iraj | **Sodagar** | **Tencent** |  |
| Richard | **Bradbury** | **BBC R&D** |  |
| Henri | **Fourdeux** | **InterDigital** | Yes |
| Choi | **Kiho** | **Samsung Electronics** |  |
| Michel | **Kerdranvat** | **InterDigital** |  |
| Ahmed | **Hamza** | **InterDigital** | Yes |
| Bo | **Burman** | **Ericsson** |  |
| Lee | **Ryan** | **Samsung Electronics** |  |
| Hu | **James** | **AT&T** |  |
| Isberg | **Peter** | **Sony** | Yes |
| Jung | **Kyunghun** | **Facebook** |  |
| Lemotheux | **Julien** | **Orange** |  |
| Dadas | **Mohammed** | **Orange** |  |
| Oyman | **Ozgur** | **Intel** |  |
| Srinivas | **Gudumasu** | **InterDigital** |  |
| Zhang | **Zhuoyun** | **Tencent** |  |
| Biatek | **Thibaud** | **ATEME** |  |
| Jelinek | **Milan** | **VoiceAge Corporation** |  |
| Plante | **Fabrice** | **Apple** |  |
| Thomas | **Emmanuel** | **KPN N.V.** |  |
| Shiferaw | **Yonatan** | **KPN N.V.** |  |
| Ahsan | **Saba**  | **Nokia Corporation** |  |
| Gunkel | **Simon** | **KPN N.V.** |  |
| Ali | **El Essaili** | **Ericsson** |  |
| Mauricio | **Aracena** | **Ericsson** |  |
| Thorsten | **Lohmar** | **Ericsson** |  |
| Lukasz | **Litwic** | **Ericsson** |  |
| Feiten | **Bernhard** | **Deutsche Telekom AG** |  |
| Szucs | **Paul** | **Sony Europe B.V.** | Yes |
| Isberg | **Peter** | **Sony** | Yes |
| Rhyu | **Sungryeul** | **Samsung Electronics** | Yes |
| Dadas | **Mohammed** | **Orange** | Yes |
| Yip | **Eric** | **Samsung Electronics** | Yes |
| Sanchez | **Yago** | **Fraunhofer HHI** | Yes |