Video SWG Minutes during SA4#114e

## 10.1 Opening of the session

Mr. Gilles Teniou (Tencent, Chairman of Video SWG) opens Video SWG on May 19, 2021 at 23:02 CEST.

E-mail discussion started already on Fri, 21 May 2021 20:36:09 +0000

**Schedule:**



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

The minutes are shared [online](https://docs.google.com/document/d/1R2zfDbLqmCucRjqdOxT5emnX0AVFDqzqG5GDjHldNgM/edit?usp=sharing).

Attendees are listed [here](#so4odidx9hey), please add attendance ‘Y’.

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

* https://list.etsi.org/scripts/wa.exe?A1=ind2105C&L=3GPP\_TSG\_SA\_WG4\_VIDEO
* https://list.etsi.org/scripts/wa.exe?A1=ind2105D&L=3GPP\_TSG\_SA\_WG4\_VIDEO

Final Timestamp for e-mail discussions considered in the report: Wed, 26 May 2021 20:58:33 +0000

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| --- | --- | --- |
| [3GPP SA4#114-e meeting - Proposed VIDEO SWG agenda](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=73) | teniou(TeniouGilles) | Tue, 18 May 2021 22:58:13 +0000 |

The agenda and the registration of documents are agreed.

## 10.2 Registration of documents

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| --- | --- | --- | --- |
| 5.2 | Other 3GPP groups | Plenary | 716 (RAN1/AIS) -> Video SWG  |
| 5.3 | Other groups | Plenary | 408 (VRIF/8K VR360) -> Video SWG860 (ITU-T SG12/Cloud Gaming) -> 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 |   |
| 10.4 | CRs to features in Release 16 and earlier | A | 738, 739 |
| 10.5 | 8K\_VR\_5G (Operation Points for 8K VR 360 Video over 5G) | B | 712, ~~844~~, 740 |
| 10.6 | FS\_VR\_CoGui (Feasibility Study on VR Streaming Conformance and Guidelines) | B | 854 |
| 10.7 | FS\_5GVideo (Feasibility Study on 5G Video Codec Characteristics) | A | 730, 713->867, 731, 727, 734, 735, 758, 801, 743, 744, 745, 746, 747, 748, 781 858, 859 732, 741, ~~845~~ |
| 10.8 | FS\_XRTraffic (Feasibility Study on Typical Traffic Characteristics for XR Services and other Media) | B | 749, 750, 751 |
| 10.9 | FS\_5GSTAR (Feasibility Study on 5G Glass-type AR/MR Devices) | A | 714, 788, 789, 819, 776, 777, 752, 753, 754, 755, 756, 787, 782, 784 ~~846~~, 856, 857 |
| 10.10 | New Work / New Work Items and Study Items | B |   |
| 10.11 | Liaisons and Liaison Responses | B |  800 |
| 10.12 | Any Other Business | B |   |
| 10.13 | Close of the session | B |   |

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| TDoc | Title | Source | Contact | Agenda item |
| [S4-210716](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210716.zip) | Reply LSon New Standardized 5QIs for 5G-AIS (Advanced Interactive Services) | 3GPP RAN2 | Jayeeta Saha | 5.2 |
| [S4-210842](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210842.zip) | Decoding Capabilities and Operation Points for 8K VR 360 Video over 5GMS | Intel, Qualcomm Incorporated, Tencent, Fraunhofer HHI | Jayeeta Saha | 6 |
| [S4-210738](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210738.zip) | Spatial positioning of the chroma samples for TV Video Profiles | Qualcomm Incorporated | Thomas Stockhammer | 10.4 |
| [S4-210739](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210739.zip) | Spatial positioning of the chroma samples for VR Video Profiles | Qualcomm Incorporated | Thomas Stockhammer | 10.4 |
| [S4-210712](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210712.zip) | Addition of HLG Transfer Characteristics | BBC, Apple, KPN N.V., Sony Corporation, Intel, EBU, Tencent | Richard Bradbury | 10.5 |
| S4-210740 | [8K\_VR\_5G] Work Item Summary | Qualcomm Incorporated | Thomas Stockhammer | 10.5 |
| S4-210844 | Addition of HLG Transfer Characteristics | BBC, Apple, KPN N.V., Sony Corporation, Intel, EBU, Tencent | Richard Bradbury | 10.5 |
| [S4-210854](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210854.zip) | Finalization of FS\_VR\_CoGui SID | Nokia Corporation | Igor Curcio | 10.6 |
| [S4-210713](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210713.zip) | Adding AV1 to the 5G Video Study | Apple, ATEME, AT&T, BBC, Broadcom, Cisco Systems, Facebook Inc., Google, Intel, Samsung Electronics Co. Ltd., TELUS, T-Mobile US | Fabrice Plante | 10.7 |
| [S4-210727](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210727.zip) | Mission Control bitstreams and updated screen content results | InterDigital, Europe, Ltd. | Gaelle Martin-Cocher | 10.7 |
| [S4-210730](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210730.zip) | pCR 26.955 Editorial updates | Apple | Fabrice Plante | 10.7 |
| [S4-210731](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210731.zip) | Adaptive Streaming | Apple, Netflix, Facebook Inc, Google | Fabrice Plante | 10.7 |
| S4-210732 | Reference sequences for 4K-TV broadcast scenario | InterDigital, Ericsson, Ateme | Michel Kerdranvat | 10.7 |
| [S4-210734](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210734.zip) | HEVC-AVC | InterDigital, Europe, Ltd. | Gaelle Martin-Cocher | 10.7 |
| [S4-210735](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210735.zip) | Reference softwares | InterDigital, Europe, Ltd. | Gaelle Martin-Cocher | 10.7 |
| S4-210741 | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210743](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210743.zip) | Suggestion for codecs versioning in TR | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210744](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210744.zip) | [FS\_5G\_Video] Status | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210745](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210745.zip) | pCR26.955: FullHD Streaming | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210746](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210746.zip) | pCR26.955: Software Updates | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210747](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210747.zip) | [FS\_5G\_Video] Configuration updates | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210748](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210748.zip) | Proposed WID update for 5G Video | Qualcomm Incorporated | Thomas Stockhammer | 10.7 |
| [S4-210758](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210758.zip) | S3-S5 metrics | InterDigital, Europe, Ltd. | Gaelle Martin-Cocher | 10.7 |
| [S4-210781](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210781.zip) | [FS\_5GVideo] Proposed Configuration Files for EVC | Samsung Electronics Co. Ltd., Qualcomm | Rajan Joshi | 10.7 |
| [S4-210801](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210801.zip) | [FS\_5GVideo] Editor's Proposed Updates to TR26.955 | Qualcomm communications-France | Thomas Stockhammer | 10.7 |
| S4-210867 | Adding AV1 to the 5G Video Study | Apple, ATEME, AT&T, BBC, Broadcom, Cisco Systems, Facebook Inc., Google, Intel, Samsung Electronics Co. Ltd., TELUS, T-Mobile US | Fabrice Plante | 10.7 |
| S4-210749 | Proposed Updates to Work Plan for FS\_XRTraffic | Qualcomm Incorporated | Thomas Stockhammer | 10.8 |
| S4-210750 | [FS\_XRTraffic] Proposed Updated TR26.926 | Qualcomm Incorporated | Thomas Stockhammer | 10.8 |
| S4-210751 | [FS\_XRTraffic] Updates to Quality Evaluation | Qualcomm Incorporated | Thomas Stockhammer | 10.8 |
| [S4-210714](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210714.zip) | [FS\_5GSTAR] Examination of Requirements for Spatial Computing and 3D World Map services in 5G AR Use Cases | B-Com, Perey Research & Consulting, Orange | Muriel Deschanel | 10.9 |
| [S4-210752](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210752.zip) | [FS\_5GSTAR] Basic Process and Functions | Qualcomm Incorporated | Thomas Stockhammer | 10.9 |
| [S4-210753](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210753.zip) | [FS\_5GSTAR] 5G Media Delivery in STAR | Qualcomm Incorporated | Thomas Stockhammer | 10.9 |
| [S4-210754](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210754.zip) | [FS\_5GSTAR] Proposed Updates to Architectures | Qualcomm Incorporated | Thomas Stockhammer | 10.9 |
| [S4-210755](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210755.zip) | [FS\_5GSTAR] Call Flow Updates for Streaming to STAR UE | Qualcomm Incorporated | Thomas Stockhammer | 10.9 |
| [S4-210756](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210756.zip) | [FS\_5GSTAR] Call Flow Updates for Streaming to EDGAR UE | Qualcomm Incorporated | Thomas Stockhammer | 10.9 |
| [S4-210776](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210776.zip) | Proposed an extension to MTSI Architecture for AR two-party calls | HiSilicon Technologies Co. Ltd | Yan Liu | 10.9 |
| [S4-210777](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210777.zip) | Proposed an extension to DCMTSI Architecture for AR two-party calls | HiSilicon Technologies Co. Ltd | Yan Liu | 10.9 |
| [S4-210782](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210782.zip) | [5GSTAR] Content formats and codecs | Samsung Electronics Czech | Sungryeul Rhyu | 10.9 |
| [S4-210784](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210784.zip) | [FS\_5GSTAR] Proposed update on EDGAR architecture | Samsung Guangzhou Mobile R&D | Hakju Ryan Lee | 10.9 |
| [S4-210787](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210787.zip) | [FS\_5GSTAR] Updates to Procedures for 5G Downlink Streaming using a STAR UE | Samsung Electronics Co., Ltd. | Eric Yip | 10.9 |
| [S4-210788](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210788.zip) | [FS\_5GSTAR] Proposed Functionalities Updates of 5G EDGAR | China Mobile Com. Corporation | Yujian Yin | 10.9 |
| [S4-210789](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210789.zip) | [FS\_5GSTAR] Update on Use Cases Mapping | China Mobile Com. Corporation | Yujian Yin | 10.9 |
| [S4-210819](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210819.zip) | Architecture mapping for AR conversational services and call flow | Ericsson LM | Bo Burman | 10.9 |
| S4-210846 | [FS\_5GSTAR] Examination of Requirements for Spatial Computing and 3D World Map services in 5G AR Use Cases | B-Com | Muriel Deschanel | 10.9 |
| S4-210856 | [FS\_5GSTAR] Background on MPEG Scene Description | Qualcomm Incorporated | Thomas Stockhammer | 10.9 |
| S4-210857 | [FS\_5GSTAR] AR Runtime Overview | Qualcomm Incorporated | Thomas Stockhammer | 10.9 |
| S4-210800 | Proposed LS to 8K Association | Qualcomm communications-France | Thomas Stockhammer | 10.11 |
| S4-210706 | Video SWG report during SA4 meeting | Tencent | Gilles Teniou | 13.5 |

## 10.3 Reports and liaisons from other groups

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| [S4-210716](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210716.zip) | Reply LSon New Standardized 5QIs for 5G-AIS (Advanced Interactive Services) | 3GPP RAN1 | Jayeeta Saha |

**E-mail Discussion:**

none

**Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Thomas
	+ Note
	+ Add information to PD

**Decision:**

* Agreed to note and to PD of XR Traffic in **890**.

**S4-210716** is noted.

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| [S4-210860](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210860.zip) | LS/r on Cloud Gaming Efforts in 3GPP SA4 (response to 3GPP TSG SA4-LS43) | ITU-T Study Group 12 | Jayeeta Saha |

**E-mail Discussion:**

none

**Presenter: Gunnar Heikkälä (Ericsson)**

**Online Discussion:**

* Thomas: propose to add bullets 2, 3, 4, 6 to XR Traffic PD, add 1, 5 and 7 to Video PD
* On issue 7 - some discussion if this is relevant

**Decision:**

* LS is noted
* Integrate work into PDs
* Respond informally and inform them on more later.

**S4-210860** is noted.

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| [S4-210866](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210866.zip) | 8K VR 360 operation points | VR-IF | Jayeeta Saha |

**Presenter: Gilles Teniou**

**Online Discussion:**

* We will respond

**Decision:**

* Gilles will provide response 891 based on the information in the work item summary.

**S4-210716** is replied to **S4-210891**.

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| [S4-210891](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210891.zip) | Reply to VRIF on 8K VR 360 operation points | 3GPP SA4 SWG | Gilles Teniou |

**Presenter: Gilles Teniou**

**Online Discussion:**

**Decision:**

* Gilles will trigger e-mail agreement

**S4-210891** is presented to SA4 plenary.

## 10.4 CRs to features in Release 16 and earlier

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| [S4-210738](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210738.zip) | Spatial positioning of the chroma samples for TV Video Profiles | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

None triggered.

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

* none

**Decision:**

* Agreed. We need a formal CR in **S4-210868** and will go to e-mail agreement.

**S4-210738** is agreed.

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| [S4-210868](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210868.zip) | CR26.116-0015: Spatial positioning of the chroma samples for TV Video Profiles | Qualcomm Incorporated, Tencent, BBC | Thomas Stockhammer |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

* none

**Decision:**

* Agreed.

**S4-210868** is agreed and is presented to SA4 plenary.

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| [S4-210739](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210739.zip) | Spatial positioning of the chroma samples for VR Video Profiles | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

None triggered.

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

* none

**Decision:**

* Agreed. We need a formal CR in **S4-210869** and **S4-210870** and will go to e-mail agreement.

**S4-210739** is agreed.

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| [S4-210869](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210869.zip) | CR26.118-0009: Spatial positioning of the chroma samples for VR Video Profiles (Rel-16) | Qualcomm Incorporated, Tencent, BBC | Thomas Stockhammer |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

* none

**Decision:**

* Agreed.

**S4-210869** is agreed and is presented to SA4 plenary.

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| [S4-210870](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210870.zip) | CR26.118-0010: Spatial positioning of the chroma samples for VR Video Profiles (Rel-17) | Qualcomm Incorporated, Tencent, BBC | Thomas Stockhammer |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

* Thomas explains the comments and why he got a few more grey hairs with that one.

**Decision:**

* Agreed.

**S4-210870** is agreed and is presented to SA4 plenary.

## 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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| [S4-210712](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210712.zip) | Addition of HLG Transfer Characteristics | BBC, Apple, KPN N.V., Sony Corporation, Intel, EBU, Tencent | Richard Bradbury |

**E-mail Discussion:**

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| [[8K\_VR\_5G, 712, Block B, 25th May 2100CEST] Addition of HLG Transfer Characteristics](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16194) | teniou(TeniouGilles) | Mon, 24 May 2021 20:45:13 +0000 |
| [[8K\_VR\_5G, 712, Block B, 25th May 2100CEST] Addition of HLG Transfer Characteristics](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=29661) | Thomas Stockhammer | Tue, 25 May 2021 19:00:22 +0000 |
| [[8K\_VR\_5G, 712->886, Block B, 25th May 2100CEST] Addition of HLG Transfer Characteristics](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=37254) | Richard Bradbury | Tue, 25 May 2021 23:39:13 +0100 |

**Presenter:**

**Online Discussion:**

* Update from Qualcomm: https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_114-e/Inbox/Drafts/Video/S4-210712%20Draft%20CR%20to%20TS26.118%20-%20Addition%20of%20HLG%20transfer%20characteristics%20-%20QC.docx
	+ Thomas provides summary
	+ Paul: ok with the addition
	+ Richard: ok, small changes
	+ Online fixes done
	+ Alexis: We may not want this to be presented.
	+ Dmytro: agree in principle
	+ Alexis: some rewording suggested.
	+ Thomas: explains again the situation, 14 and 18.

**Decision:**

* Revise to 886 with the revision
	+ NOTE2: If the content is provided to a receiver that is not able to process the SEI message, the receiver uses the backward-compatibility mode of HLG to present an SDR representation of the signal.

**S4-210712** is revised to **S4-210886**.

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| [S4-210886](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210886.zip) | Addition of HLG Transfer Characteristics | BBC, Apple, KPN N.V., Sony Corporation, Intel, EBU, Tencent | Richard Bradbury |

**S4-210886** is agreed.

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| [S4-210887](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210887.zip) | CR26.118-0009: Addition of HLG Transfer Characteristics | BBC, Apple, KPN N.V., Sony Corporation, Intel, EBU, Tencent, Qualcomm Incorporated | Richard Bradbury |

**Presenter: Richard Bradbury (BBC)**

**Online Discussion:**

* No comments

**Decision:**

**S4-210887** is agreed and will be presented to the SA4 plenary.

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| S4-210740 | [8K\_VR\_5G] Work Item Summary | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8K\_VR\_5G, 740, Block B, 25th May 2100CEST] Work Item Summary](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16976) | teniou(TeniouGilles) | Mon, 24 May 2021 20:45:22 +0000 |

**Online Discussion:**

* No comments

**Decision:**

* agreed

**S4-210740** is agreed and will be presented to the SA4 plenary.

## 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)

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| [S4-210854](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210854.zip) | Finalization of FS\_VR\_CoGui SID | Nokia Corporation | Igor Curcio |

**E-mail Discussion:**

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| [[FS\_VR\_CoGui, 854, Block B, 25th May 2100CEST] Finalization of FS\_VR\_CoGui SID](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=15418) | teniou(TeniouGilles) | Mon, 24 May 2021 20:45:00 +0000 |
| [[FS\_VR\_CoGui, 854, Block B, 25th May 2100CEST] Finalization of FS\_VR\_CoGui SID](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=28307) | Thomas Stockhammer | Tue, 25 May 2021 17:40:58 +0000 |
| [[FS\_VR\_CoGui, 854, Block B, 25th May 2100CEST] Finalization of FS\_VR\_CoGui SID](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=33711) | Curcio, Igor (Nokia - FI/Tampere) | Tue, 25 May 2021 20:48:58 +0000 |
| [[FS\_VR\_CoGui, 854, Block B, 25th May 2100CEST] Finalization of FS\_VR\_CoGui SID](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=35610) | Thomas Stockhammer | Tue, 25 May 2021 21:04:30 +0000 |

**Presenter:**

**Online Discussion:**

* Gilles: summarizes the online contribution
* Thomas:
	+ Do we really decide to complete everything and send the TR to SA4 plenary?
	+ Prefer to wait for the next meeting

**Decision:**

* We wait for the next meeting
* We create a timeplan in 888

**S4-210854** is noted.

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| [S4-210888](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210888.zip) | Time Plan FS\_VR\_CoGui | Nokia Corporation | Igor Curcio |

**S4-210888** is presented to SA4 plenary.

## 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)

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| [S4-210713](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210713.zip) | Adding AV1 to the 5G Video Study | Apple, ATEME, AT&T, BBC, Broadcom, Cisco Systems, Facebook Inc., Google, Intel, Samsung Electronics Co. Ltd., TELUS, T-Mobile US | Fabrice Plante |

**S4-210713** is revised to **S4-210867**.

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| [S4-210727](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210727.zip) | Mission Control bitstreams and updated screen content results | InterDigital, Europe, Ltd. | Gaelle Martin-Cocher |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GVideo, 727, Block A, 19th May 2100CEST] Mission Control bitstreams and updated screen content results](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=7726) | teniou(TeniouGilles) | Wed, 19 May 2021 04:06:32 +0000 |
| [[FS\_5GVideo, 727, Block A, 19th May 2100CEST] Mission Control bitstreams and updated screen content results](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=32216) | Thomas Stockhammer | Wed, 19 May 2021 14:58:20 +0000 |
| [[FS\_5GVideo, 727, Block A, 19th May 2100CEST] Mission Control bitstreams and updated screen content results](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=50362) | teniou(TeniouGilles) | Wed, 19 May 2021 19:15:08 +0000 |

**Decision:**

* Only positive feedback received and actions listed below for the rapporteur.

**S4-210727** is agreed.

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| [S4-210730](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210730.zip) | pCR 26.955 Editorial updates | Apple | Fabrice Plante |

**E-mail Discussion:**

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| --- | --- | --- |
| [[FS\_5GVideo, 730, Block A, 19th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=11599) | teniou(TeniouGilles) | Wed, 19 May 2021 04:07:02 +0000 |
| [[FS\_5GVideo, 730, Block A, 19th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=34617) | Thomas Stockhammer | Wed, 19 May 2021 16:35:08 +0000 |
| [[FS\_5GVideo, 730, Block A, 19th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=39284) | Gaëlle Martin-Cocher | Wed, 19 May 2021 17:31:21 +0000 |
| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=79339) | Fabrice Plante | Wed, 19 May 2021 18:34:33 -0700 |
| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=69500) | teniou(TeniouGilles) | Thu, 20 May 2021 00:37:34 +0000 |
| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=116976) | Fabrice Plante | Thu, 20 May 2021 11:30:23 -0700 |
| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=90799) | Gaëlle Martin-Cocher | Thu, 20 May 2021 14:21:17 +0000 |
| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=105835) | Thomas Stockhammer | Thu, 20 May 2021 16:22:49 +0000 |
| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=122283) | Gaëlle Martin-Cocher | Thu, 20 May 2021 19:02:37 +0000 |

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| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=14257) | Fabrice Plante | Mon, 24 May 2021 13:45:01 -0700 |
| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=27657) | Fabrice Plante | Tue, 25 May 2021 08:25:36 -0700 |
| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=31669) | Alexandros Tourapis | Tue, 25 May 2021 12:12:40 -0700 |
| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=36396) | Fabrice Plante | Tue, 25 May 2021 15:08:12 -0700 |
| [[FS\_5GVideo, 730, Block A, 24th May 2100CEST] pCR 26.955 Editorial updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=29001) | Dmytro Rusanovskyy | Tue, 25 May 2021 17:51:59 +0000 |

**Online Discussion:**

* May 21, 2021: Gilles summarizes
	+ May 24, 2021: Fabrice presents: <https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_114-e/Inbox/Drafts/Video/S4-210730_Draft_CR_26955_Editorial_changes_v2-apple.docx>
	+ Dmytro: Why is encoding complexity removed?
		- Fabrice: it was agreed with Interdigital that this is not part of the TR
		- Gilles: yes this is agreed
		- Alexis: numbers are hard to get
		- Thomas: complexity was added for defining the configs. If now removed.
* May 25, 2021: Fabrice presents: https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_114-e/Inbox/Drafts/Video/S4-210730\_Draft\_CR\_26955\_Editorial\_changes\_r01.docx
	+ Dmytro: Propose to add “Given how the anchors are produced (Clause 6), it is expected that the test encoders should follow similar configuration settings, which would enable similar functionality as per the defined applications. Only fixed periodic (temporal) QP and coding structures are permitted, without the use of any lookahead (sequence level multi pass encoding) that would alter the QP or coding structures dynamically per content. For HDR content, the QP settings may be adjusted within a frame as a function of the local, average luma value. QP and coding structures may differ from those used by the anchors but such differences should be consistent for all content in a scenario and should be described.
	+ Online edits done and agreed.

**Decision:**

* May 21, 2021: Needs more time and will be revised
* May 24, 2021: Likely agreeable, but e-mail agreement is extended 24 hours.
* May 25, 2021: online version is agreeable - needs to be revised to 893

**S4-210730** is revised to **S4-210893**.

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| [S4-210893](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210893.zip) | pCR 26.955 Editorial updates | Apple | Fabrice Plante |

**S4-210893** is agreed.

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| [S4-210731](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210731.zip) | Adaptive Streaming | Apple, Netflix, Facebook Inc, Google | Fabrice Plante |

**E-mail Discussion:**

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| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=2405) | teniou(TeniouGilles) | Wed, 19 May 2021 04:05:36 +0000 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=33022) | Alexandros Tourapis | Wed, 19 May 2021 09:05:03 -0700 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=37732) | Alexandros Tourapis | Wed, 19 May 2021 10:28:24 -0700 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=29673) | Lukasz Litwic | Wed, 19 May 2021 14:00:49 +0000 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=31552) | Thomas Stockhammer | Wed, 19 May 2021 14:08:18 +0000 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=66024) | Alexandros Tourapis | Wed, 19 May 2021 15:22:01 -0700 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=38395) | Dmytro Rusanovskyy | Wed, 19 May 2021 17:29:58 +0000 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=42128) | Michel Kerdranvat | Wed, 19 May 2021 18:02:09 +0000 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=46474) | teniou(TeniouGilles) | Wed, 19 May 2021 19:01:45 +0000 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=161239) | Alexandros Tourapis | Fri, 21 May 2021 08:16:46 -0700 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=168496) | Alexandros Tourapis | Fri, 21 May 2021 11:00:49 -0700 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=160405) | Sanchez de la Fuente, Yago | Fri, 21 May 2021 11:40:44 +0000 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=169905) | Alexandros Tourapis | Fri, 21 May 2021 12:14:22 -0700 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=171563) | Alexandros Tourapis | Fri, 21 May 2021 12:40:31 -0700 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=165639) | Sanchez de la Fuente, Yago | Fri, 21 May 2021 17:30:05 +0000 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=169373) | Sanchez de la Fuente, Yago | Fri, 21 May 2021 19:03:08 +0000 |
| [[FS\_5GVideo, 731, Block A, 19th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=170737) | Sanchez de la Fuente, Yago | Fri, 21 May 2021 19:31:11 +0000 |

**Decision:**

* Revise to change source

**S4-210731** is revised to **S4-210873**.

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| [S4-210873](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210873.zip) | Adaptive Streaming | Apple, Facebook Inc, Google | Fabrice Plante |

**E-mail Discussion:**

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| [[FS\_5GVideo, 873, Block A, 24th May 2100CEST] Adaptive Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=71466) | teniou(TeniouGilles) | Thu, 20 May 2021 00:37:40 +0000 |

**Presenter: Fabrice Plante (Apple)**

**Online Discussion:**

* Fabrice explains the
* Thomas: very interesting. Understand the complexity of the discussion, but believe that we could create some very good framework. Propose to use SWG telcos to see if we can progress this. Thomas suggests to add this reference.

**Decision:**

* Note. Add this to the status document together with 745 to be checked for further discussion together with discussion.

**S4-210873** is noted.

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| S4-210732 | Reference sequences for 4K-TV broadcast scenario | InterDigital, Ericsson, Ateme | Michel Kerdranvat |

**Online Discussion:**

* Submitted late - not presented.
* Thomas: add this information to the PD document

**Decision:**

* Add to PD document
* Sequences are not yet agreed

**S4-210732** is noted.

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| [S4-210734](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210734.zip) | HEVC-AVC | InterDigital, Europe, Ltd. | Gaelle Martin-Cocher |

**E-mail Discussion:**

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| [[FS\_5GVideo, 734, Block A, 19th May 2100CEST] HEVC-AVC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=8531) | teniou(TeniouGilles) | Wed, 19 May 2021 04:06:37 +0000 |
| [[FS\_5GVideo, 734, Block A, 19th May 2100CEST] HEVC-AVC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=35396) | Fabrice Plante | Wed, 19 May 2021 10:06:16 -0700 |
| [[FS\_5GVideo, 734, Block A, 19th May 2100CEST] HEVC-AVC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=27657) | Thomas Stockhammer | Wed, 19 May 2021 12:18:59 +0000 |
| [[FS\_5GVideo, 734, Block A, 19th May 2100CEST] HEVC-AVC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=28873) | Gaëlle Martin-Cocher | Wed, 19 May 2021 13:37:13 +0000 |
| [[FS\_5GVideo, 734, Block A, 19th May 2100CEST] HEVC-AVC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=78271) | Fabrice Plante | Wed, 19 May 2021 17:49:01 -0700 |
| [[FS\_5GVideo, 734, Block A, 19th May 2100CEST] HEVC-AVC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=125398) | Gaëlle Martin-Cocher | Thu, 20 May 2021 19:17:20 +0000 |
| [[FS\_5GVideo, 734, Block A, 24th May 2100CEST] HEVC-AVC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=72058) | teniou(TeniouGilles) | Thu, 20 May 2021 00:37:51 +0000 |

**Online Discussion:**

* May 21 Telco
* Gilles summarizes offline discussion.
* Dmytro: This seems to be an encoder optimization.
	+ Alexis: True. But not temporal filtering is not like this. But we need to add this to JM to make this proper.
	+ Dmytro: These results are at least 5 years old, so it is not relevant. No temporal filtering.
	+ Gaelle: these are external evaluation results. This is old and has nothing to do with anchors or cfg in this study. This is external data. The note is overly broad.
	+ Alexis: We know that these results have some serious problems due to lambda usage. It is more HM and JM is using some settings. We should mention this.
	+ Gilles: we are not comparing technologies, but implementations of it. Would be fine with addressing specifics of implementation. But this note is too broad as it suggests that there may be some problems.
	+ Alexis: problems exists. We can refine the note to be more accurate.
	+ Rajan: When we run tests, we want to take this into account.
	+ Dmytro: Support chair, this is not relevant. This was published by MPEG as official results. This is fine. If someone does not agree with AVC implementation, this could change.
* Gilles proposes to extend the discussion.
* May 24 Telco: agreed with the revision

**Decision:**

* Apple will revise note and provide an updates.
* May 24: revision <https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_114-e/Inbox/Drafts/Video/S4-210734-pCR-H.265-Characterization-against-H.264_QC_Apple_Apple.docx> agreeable

**S4-210734** is revised to **S4-210882**.

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| [S4-210882](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210882.zip) | HEVC-AVC | InterDigital, Europe, Ltd. | Gaelle Martin-Cocher |

**S4-210882** is agreed.

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| [S4-210735](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210735.zip) | Reference softwares | InterDigital, Europe, Ltd. | Gaelle Martin-Cocher |

**E-mail Discussion:**

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| [[FS\_5GVideo, 735, Block A, 19th May 2100CEST] Reference softwares](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=9282) | teniou(TeniouGilles) | Wed, 19 May 2021 04:06:41 +0000 |
| [[FS\_5GVideo, 735, Block A, 19th May 2100CEST] Reference softwares](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=53617) | teniou(TeniouGilles) | Wed, 19 May 2021 19:21:59 +0000 |

**Decision:**

* No comment was received.
* The document **S4-210735** is **agreed**.

**S4-210735** is agreed.

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| S4-210741 | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | Thomas Stockhammer |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Note that the table is not the latest decision. The joint telco with MTSI is on June 22, not June 8.

**Decision:**

* agreed

**S4-210741** is agreed and presented to SA4 plenary

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| [S4-210743](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210743.zip) | Suggestion for codecs versioning in TR | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 743, Block A, 19th May 2100CEST] Suggestion for codecs versioning in TR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=4641) | teniou(TeniouGilles) | Wed, 19 May 2021 04:06:11 +0000 |
| [[FS\_5GVideo, 743, Block A, 19th May 2100CEST] Suggestion for codecs versioning in TR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=30627) | Gaëlle Martin-Cocher | Wed, 19 May 2021 14:05:49 +0000 |
| [[FS\_5GVideo, 743, Block A, 19th May 2100CEST] Suggestion for codecs versioning in TR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=43613) | Thomas Stockhammer | Wed, 19 May 2021 18:14:53 +0000 |
| [[FS\_5GVideo, 743, Block A, 19th May 2100CEST] Suggestion for codecs versioning in TR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=54461) | teniou(TeniouGilles) | Wed, 19 May 2021 19:31:11 +0000 |
| [[FS\_5GVideo, 743, Block A, 19th May 2100CEST] Suggestion for codecs versioning in TR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=56281) | Thomas Stockhammer | Wed, 19 May 2021 19:34:48 +0000 |

**Decision:**

* The comments made by Interdigital are accepted and taken into account in the below version.
* The document **S4-210743** is **revised** into **S4-210865**. We will check in session if we can directly agree on it.

**S4-210865** is revised to **S4-210865**.

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| [S4-210865](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210865.zip) | Suggestion for codecs versioning in TR | Qualcomm Incorporated | Thomas Stockhammer |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

* none

**Decision:**

* agreed

**S4-210865** is agreed.

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| [S4-210744](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210744.zip) | [FS\_5G\_Video] Status | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 744, Block A, 19th May 2100CEST] Status](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=878) | teniou(TeniouGilles) | Wed, 19 May 2021 04:05:32 +0000 |
| [[FS\_5GVideo, 744, Block A, 19th May 2100CEST] Status](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=47953) | teniou(TeniouGilles) | Wed, 19 May 2021 19:12:32 +0000 |

**Decision:**

* No comment was received.
* The document **S4-210744** is **agreed**.

**S4-210744** is agreed.

The new PD is available in **S4-210872**.

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| [S4-210872](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210872.zip) | [FS\_5G\_Video] FS\_5GVideo: Permanent document on Open Issues v0.2.0 | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210871** is sent to SA4 plenary.

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| [S4-210745](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210745.zip) | pCR26.955: FullHD Streaming | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 745, Block A, 19th May 2100CEST] pCR26.955: FullHD Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=6192) | teniou(TeniouGilles) | Wed, 19 May 2021 04:06:16 +0000 |
| [[FS\_5GVideo, 745, Block A, 19th May 2100CEST] pCR26.955: FullHD Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=52941) | Dmytro Rusanovskyy | Wed, 19 May 2021 19:19:51 +0000 |
| [[FS\_5GVideo, 745, Block A, 24th May 2100CEST] pCR26.955: FullHD Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=70535) | teniou(TeniouGilles) | Thu, 20 May 2021 00:37:47 +0000 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

* Dmytro: agree in principle is ok
* Fabrice: can be combined with 731
* Thomas: basically agree to combine 731
* Dmytro: not agreeable as is, may lead to confusion

**Decision:**

* noted

**S4-210745** is noted.

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| [S4-210746](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210746.zip) | pCR26.955: Software Updates | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 746, Block A, 19th May 2100CEST] pCR26.955: Software Updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=5422) | teniou(TeniouGilles) | Wed, 19 May 2021 04:06:21 +0000 |
| [[FS\_5GVideo, 746, Block A, 19th May 2100CEST] pCR26.955: Software Updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=55414) | teniou(TeniouGilles) | Wed, 19 May 2021 19:34:40 +0000 |

**Decision:**

* No comment was received,
* The document **S4-210746** is **agreed**.

**S4-210746** is agreed.

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| [S4-210747](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210747.zip) | [FS\_5G\_Video] Configuration updates | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 747, Block A, 19th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=6962) | teniou(TeniouGilles) | Wed, 19 May 2021 04:06:27 +0000 |
| [[FS\_5GVideo, 747, Block A, 19th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=36678) | Fabrice Plante | Wed, 19 May 2021 10:13:09 -0700 |
| [[FS\_5GVideo, 747, Block A, 19th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=43020) | Thomas Stockhammer | Wed, 19 May 2021 18:06:11 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=73041) | teniou(TeniouGilles) | Thu, 20 May 2021 00:37:55 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=128373) | Fabrice Plante | Thu, 20 May 2021 12:42:04 -0700 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=138110) | Fabrice Plante | Thu, 20 May 2021 14:34:33 -0700 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=110407) | Thomas Stockhammer | Thu, 20 May 2021 17:11:06 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=134633) | Thomas Stockhammer | Thu, 20 May 2021 21:18:27 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=155742) | Fabrice Plante | Thu, 20 May 2021 21:34:30 -0700 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=139057) | Rajan Laxman Joshi | Thu, 20 May 2021 21:39:07 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=142564) | Dmytro Rusanovskyy | Thu, 20 May 2021 21:47:17 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=144691) | Rajan Laxman Joshi | Thu, 20 May 2021 21:57:38 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=156963) | Fabrice Plante | Thu, 20 May 2021 22:51:58 -0700 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=150166) | Emmanuel Thomas | Thu, 20 May 2021 23:53:42 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=151244) | Lukasz Litwic | Fri, 21 May 2021 01:03:32 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=153907) | Lukasz Litwic | Fri, 21 May 2021 01:25:19 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=156020) | Rajan Laxman Joshi | Fri, 21 May 2021 05:05:15 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=157983) | Rajan Laxman Joshi | Fri, 21 May 2021 06:07:27 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=162884) | Lukasz Litwic | Fri, 21 May 2021 15:06:11 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=167478) | Dmytro Rusanovskyy | Fri, 21 May 2021 17:58:51 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=172953) | Thomas Stockhammer | Fri, 21 May 2021 20:36:09 +0000 |

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| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=73) | Alexandros Tourapis | Sat, 22 May 2021 09:06:38 -0700 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=8797) | Rajan Laxman Joshi | Mon, 24 May 2021 16:51:24 +0000 |
| [[FS\_5GVideo, 747, Block A, 24th May 2100CEST] Configuration updates](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=32561) | Thomas Stockhammer | Tue, 25 May 2021 20:25:41 +0000 |

**Online Discussion:**

* Thomas summarizes the intention.
* Alexis: we believe that some parameters are not appropriate.
	+ Thomas: agreed, but which ones need to change.
	+ Gilles: invites for concrete proposed updates.
	+ Dave: we are happy help, fix the parameters
	+ Thomas: please help
* Offline discussion produced: <https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_114-e/Inbox/Drafts/Video/S4-210747r01.zip>
* More changes:
	+ Note from Samsung: Note: For scenario 2 (4K TV), in cases where the anchor uses temporal filtering and the codec being tested does not, additional results may be included for information to show the comparison with temporal filtering turned off for the anchor. Alternatively, an external document, which details the improvement due to temporal filtering for the anchor, may be referenced.
	+ Revision 1 from Apple: <https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_114-e/Inbox/Drafts/Video/S4-210747r01_apple.zip>
	+ Fabrice explains

**Decision:**

* May 21: Will be extended. Fixes to be done.
* May 24: Apple version + note from Samsung

**S4-210747** is revised to **S4-210883**.

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| [S4-210883](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210883.zip) | [FS\_5G\_Video] Configuration updates | Qualcomm Incorporated, Apple, Samsung, Ericsson | Thomas Stockhammer |

**S4-210883** is agreed.

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| [S4-210748](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210748.zip) | Proposed WID update for 5G Video | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24063) | David Singer | Tue, 18 May 2021 21:21:26 -0700 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=12370) | teniou(TeniouGilles) | Wed, 19 May 2021 04:07:05 +0000 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24788) | Chris Steck (csteck) | Wed, 19 May 2021 04:48:31 +0000 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=25648) | Adrian Grange | Wed, 19 May 2021 06:28:13 +0100 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=26129) | Kyunghun Jung | Wed, 19 May 2021 06:37:48 +0000 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=33881) | teniou(TeniouGilles) | Wed, 19 May 2021 16:20:26 +0000 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=40230) | Thomas Stockhammer | Wed, 19 May 2021 17:37:51 +0000 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=80439) | David Singer | Wed, 19 May 2021 20:52:28 -0700 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=68151) | Wong, Samuel | Wed, 19 May 2021 23:19:07 +0000 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=81817) | Chris Steck (csteck) | Thu, 20 May 2021 07:04:31 +0000 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=82498) | Thomas Stockhammer | Thu, 20 May 2021 08:36:56 +0000 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=112459) | David Singer | Thu, 20 May 2021 10:29:17 -0700 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=114642) | David Singer | Thu, 20 May 2021 11:09:31 -0700 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=130051) | David Singer | Thu, 20 May 2021 13:06:15 -0700 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=108847) | Dmytro Rusanovskyy | Thu, 20 May 2021 16:52:36 +0000 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=113279) | Thomas Stockhammer | Thu, 20 May 2021 17:37:50 +0000 |
| [[FS\_5GVideo, 748, Block A, 20th May 2100CEST] Proposed WID update for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=159751) | Michael Cheng | Fri, 21 May 2021 08:50:02 +0100 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Online Discussion:**

* Gilles summarizes the discussion.
* Thomas explains the situation that shows why we have a document that has 150 pages.
* Dave: We object to the discussion as it makes MPEG the golden standard
* Gaelle: proposes to take both revisions and find a revision
* Chris: we object for the same reason as apple
* Thomas: by just adding the codec, we open up to wide range of new options.
* Gilles summarizes the discussion
* David:
	+ I repeat we are NOT trying to change the basic framework
* Gaelle Martin-Cocher to Everyone
	+ Dave, the request is to document it
* Dave Singer to Everyone
	+ it's in our contributions and statements
* Thomas: Where?
* Apple — Dave Singer to Everyone
	+ 210858 accepts the definition of the tests and framework
* Thomas:
	+ no, it is nowhere said.
	+ If it says that the new codec is evaluated under the MPEG framework, it is ok. We do not wanna do this, so we listed the points that are needed without referring to MPEG
* Apple — Dave Singer to Everyone
	+ It is precisely why we didn't change a single word in the rest. I'm sorry if that wasn't clear to you
* Thomas:
	+ But by adding a codec outside MPEG, we are wide open. This changes everything
* Dave Singer: OK, I understand the fear. But it doesn't change everything. We are working hard on fitting into the framework as best can be done, and trying to help finish the anchors and test definitions
* Thomas:
	+ But this needs to be documented in the WID update.
* More discussion to try to make sure that addresses both positions.

**Decision:**

* The conversation in 858 will also be considered. 881 will be created starting from the original WID.

**S4-210748** is merged to **S4-210881**.

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| [S4-210758](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210758.zip) | S3-S5 metrics | InterDigital, Europe, Ltd. | Gaelle Martin-Cocher |

**E-mail Discussion:**

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| [[FS\_5GVideo, 758, Block A, 19th May 2100CEST] S3-S5 metrics](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=3885) | teniou(TeniouGilles) | Wed, 19 May 2021 04:06:01 +0000 |
| [[FS\_5GVideo, 758, Block A, 19th May 2100CEST] S3-S5 metrics](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=26784) | Thomas Stockhammer | Wed, 19 May 2021 12:04:06 +0000 |
| [[FS\_5GVideo, 758, Block A, 19th May 2100CEST] S3-S5 metrics](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=51935) | teniou(TeniouGilles) | Wed, 19 May 2021 19:16:38 +0000 |

**Decision:**

* Only positive feedback received.
* The document **S4-210758** is **agreed**.

**S4-210758** is agreed.

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| [S4-210781](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210781.zip) | [FS\_5GVideo] Proposed Configuration Files for EVC | Samsung Electronics Co. Ltd., Qualcomm | Rajan Joshi |

**E-mail Discussion:**

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| [[FS\_5GVideo, 781, Block A, 19th May 2100CEST] Proposed Configuration Files for EVC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=10044) | teniou(TeniouGilles) | Wed, 19 May 2021 04:06:46 +0000 |
| [[FS\_5GVideo, 781, Block A, 19th May 2100CEST] Proposed Configuration Files for EVC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=59178) | teniou(TeniouGilles) | Wed, 19 May 2021 20:04:18 +0000 |

**Decision:**

* No comment was received.
* The document **S4-210781** is **agreed**.

**S4-210781** is agreed.

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| [S4-210801](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210801.zip) | [FS\_5GVideo] Editor's Proposed Updates to TR26.955 | Qualcomm communications-France | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 801, Block A, 19th May 2100CEST] Editor's Proposed Updates to TR26.955](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=1626) | teniou(TeniouGilles) | Wed, 19 May 2021 04:05:37 +0000 |
| [[FS\_5GVideo, 801, Block A, 19th May 2100CEST] Editor's Proposed Updates to TR26.955](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=47076) | teniou(TeniouGilles) | Wed, 19 May 2021 19:08:04 +0000 |

**Decision:**

* No comment was received.
* The document **S4-210801** is **agreed**.

**S4-210801** is agreed.

A new version of the TR is in **S4-210871**.

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| [S4-210871](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210871.zip) | [FS\_5GVideo] TR26.955v1.2.0 | Qualcomm communications-France | Thomas Stockhammer |

**S4-210871** is sent to SA4 plenary.

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| [S4-210858](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210858.zip) | Revised SID of the 5G Video Study | Apple, ATEME, AT&T, BBC, Facebook Inc., Google, Intel, Samsung | Fabrice Plante |

**E-mail Discussion:**

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| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=3165) | teniou(TeniouGilles) | Wed, 19 May 2021 04:05:49 +0000 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=44716) | Gaëlle Martin-Cocher | Wed, 19 May 2021 18:53:22 +0000 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=118816) | David Singer | Thu, 20 May 2021 11:35:00 -0700 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=129259) | David Singer | Thu, 20 May 2021 13:04:28 -0700 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=141745) | David Singer | Thu, 20 May 2021 14:45:50 -0700 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=143321) | Fabrice Plante | Thu, 20 May 2021 14:56:53 -0700 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=97708) | Thomas Stockhammer | Thu, 20 May 2021 15:27:31 +0000 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=105011) | Gaëlle Martin-Cocher | Thu, 20 May 2021 16:22:15 +0000 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=107597) | Gaëlle Martin-Cocher | Thu, 20 May 2021 16:29:55 +0000 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=116119) | Thomas Stockhammer | Thu, 20 May 2021 18:29:52 +0000 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=131962) | Gaëlle Martin-Cocher | Thu, 20 May 2021 20:43:46 +0000 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=133221) | Thomas Stockhammer | Thu, 20 May 2021 20:58:27 +0000 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=146506) | Thomas Stockhammer | Thu, 20 May 2021 22:52:33 +0000 |
| [[FS\_5GVideo, 858, Block A, 20th May 2100CEST] Revised SID of the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=151958) | Dmytro Rusanovskyy | Fri, 21 May 2021 01:21:17 +0000 |

**Decision:**

* Merged to 881.

**S4-210858** is merged to **S4-210881**.

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| [S4-210881](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210881.zip) | Revised SID of the 5G Video Study | 3GPP SA4 Video SWG | Gilles Teniou |

**Presenter:** Gilles Teniou (Tencent)

**Online Discussion:**

* Gilles: provides a summary of the offline discussion
* Gaelle: add Interdigital
* Adrian: fix Google too Google Inc.

**Decision:**

* Agreed with online edits

**S4-210881** is agreed and will be presented to SA4 plenary.

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| [S4-210859](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210859.zip) | Proposed Update to 26.955 |  | Fabrice Plante |

**E-mail Discussion:**

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| [[FS\_5GVideo, 859, Block A, 20th May 2100CEST] Proposed Update to 26.955](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=13124) | teniou(TeniouGilles) | Wed, 19 May 2021 04:07:10 +0000 |
| [[FS\_5GVideo, 859, Block A, 20th May 2100CEST] Proposed Update to 26.955](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=90006) | David Singer | Thu, 20 May 2021 07:07:09 -0700 |
| [[FS\_5GVideo, 859, Block A, 20th May 2100CEST] Proposed Update to 26.955](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=93478) | David Singer | Thu, 20 May 2021 07:31:09 -0700 |
| [[FS\_5GVideo, 859, Block A, 20th May 2100CEST] Proposed Update to 26.955](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=87520) | Gaëlle Martin-Cocher | Thu, 20 May 2021 14:02:40 +0000 |
| [[FS\_5GVideo, 859, Block A, 20th May 2100CEST] Proposed Update to 26.955](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=91591) | Gaëlle Martin-Cocher | Thu, 20 May 2021 14:24:35 +0000 |

**Presenter:**

**Online Discussion:**

**Decision:**

* .

**S4-210859** is ???.

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| S4-210867 | Adding AV1 to the 5G Video Study | Apple, ATEME, AT&T, BBC, Broadcom, Cisco Systems, Facebook Inc., Google, Intel, Samsung Electronics Co. Ltd., TELUS, T-Mobile US | Fabrice Plante |

**E-mail Discussion:**

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| [[FS\_5GVideo, 861, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=10823) | teniou(TeniouGilles) | Wed, 19 May 2021 04:06:52 +0000 |
| [[FS\_5GVideo, 861, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=88208) | David Singer | Thu, 20 May 2021 07:03:00 -0700 |
| [[FS\_5GVideo, 861, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=86092) | Gaëlle Martin-Cocher | Thu, 20 May 2021 13:35:49 +0000 |
| [[FS\_5GVideo, 861, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=89197) | Gaëlle Martin-Cocher | Thu, 20 May 2021 14:04:23 +0000 |

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| [[FS\_5GVideo, 867, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=74039) | teniou(TeniouGilles) | Thu, 20 May 2021 00:38:00 +0000 |
|  [[FS\_5GVideo, 867, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=109751) | Fabrice Plante | Thu, 20 May 2021 09:57:59 -0700 |
|  [[FS\_5GVideo, 867, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=85088) | Michael Brown | Thu, 20 May 2021 13:30:31 +0000 |
|  [[FS\_5GVideo, 867, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=94064) | Gaëlle Martin-Cocher | Thu, 20 May 2021 15:15:14 +0000 |
|  [[FS\_5GVideo, 867, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=96947) | teniou(TeniouGilles) | Thu, 20 May 2021 15:27:03 +0000 |
|  [[FS\_5GVideo, 867, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=101267) | Gaëlle Martin-Cocher | Thu, 20 May 2021 15:50:16 +0000 |
| [[FS\_5GVideo, 867, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=106575) | Dmytro Rusanovskyy | Thu, 20 May 2021 16:25:26 +0000 |
|  [[FS\_5GVideo, 867, Block A, 20th May 2100CEST] Adding AV1 to the 5G Video Study](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=124620) | Gaëlle Martin-Cocher | Thu, 20 May 2021 19:13:43 +0000 |

**Presenter: Gilles Teniou**

**Online Discussion:**

* Gaelle: Are all sources committed to contribute? We seem to have lots of co-signers, but many fewer are added to work item supporters.

**Decision:**

* The document is noted, but the real update is in S4-210881 that reflects the details on what is agreed.

**S4-210867** 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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| S4-210749 | Proposed Updates to Work Plan for FS\_XRTraffic | Qualcomm Incorporated | Thomas Stockhammer |

**Presenter: Thomas Stockhammer**

**Online Discussion:**

* No comments

**Decision:**

* agreed

**S4-210749** is agreed.

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| S4-210750 | [FS\_XRTraffic] Proposed Updated TR26.926 | Qualcomm Incorporated | Thomas Stockhammer |

**Presenter: Thomas Stockhammer**

**Online Discussion:**

* none

**Decision:**

* Agreed. - allocate 894 as TR26.926 v0.2.0.

**S4-210750** is agreed.

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| S4-210894 | TR26.926v0.2.0 | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210894** is agreed and presented to SA4 plenary.

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| S4-210751 | [FS\_XRTraffic] Updates to Quality Evaluation | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210751** is noted.

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| S4-210890 | Permanent document on XR Traffic v0.7.0 | Qualcomm Incorporated | Thomas Stockhammer |

**Presenter: Thomas Stockhammer**

**Online Discussion:**

* none

**Decision:**

* Does ot need to go SA4 plenary.

**S4-210890** is agreed.

## 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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| [S4-210714](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210714.zip) | [FS\_5GSTAR] Examination of Requirements for Spatial Computing and 3D World Map services in 5G AR Use Cases | B-Com, Perey Research & Consulting, Orange | Muriel Deschanel |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 714, Block A, 20th May 2100CEST] Reqs for Spatial Computing and 3D World Map services in 5G AR UC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=22487) | teniou(TeniouGilles) | Wed, 19 May 2021 04:08:18 +0000 |
| [[FS\_5GSTAR, 714, Block A, 20th May 2100CEST] Reqs for Spatial Computing and 3D World Map services in 5G AR UC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=95983) | Imed Bouazizi | Thu, 20 May 2021 15:18:44 +0000 |
| [[FS\_5GSTAR, 714, Block A, 20th May 2100CEST] Reqs for Spatial Computing and 3D World Map services in 5G AR UC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=103224) | Jérome ROYAN | Thu, 20 May 2021 15:53:50 +0000 |
| [[FS\_5GSTAR, 714, Block A, 20th May 2100CEST] Reqs for Spatial Computing and 3D World Map services in 5G AR UC](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=122927) | Curcio, Igor (Nokia - FI/Tampere) | Thu, 20 May 2021 19:04:39 +0000 |

**Online Discussion:**

* Jerome summarizes the discussion
* Thomas: we do not see that this aspect is really a run-time on the edge. It is more an additional component on the edge application that is used.
	+ Jerome: We believe it is an important component.
	+ Thomas: not disagreeing, but AR experiences are possible without using a spatial compute server. We need to see the CR.
	+ Jerome: ok, we will do a pCR

**Decision:**

* Generally agreed, but we need to see a pCR. Expected for the next telco

**S4-210714** is agreed.

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| [S4-210752](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210752.zip) | [FS\_5GSTAR] Basic Process and Functions | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 752, Block A, 19th May 2100CEST] Basic Process and Functions](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=19166) | teniou(TeniouGilles) | Wed, 19 May 2021 04:08:04 +0000 |
| [[FS\_5GSTAR, 752,788, Block A, 24th May 2100CEST] Basic Process and Functions EDGAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=77479) | teniou(TeniouGilles) | Thu, 20 May 2021 00:48:46 +0000 |
| [[FS\_5GSTAR, 752,788, Block A, 24th May 2100CEST] Basic Process and Functions EDGAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=111290) | Thomas Stockhammer | Thu, 20 May 2021 17:22:26 +0000 |
| [[FS\_5GSTAR, 752,788, Block A, 24th May 2100CEST] Basic Process and Functions EDGAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=113918) | Iraj Sodagar | Thu, 20 May 2021 17:59:22 +0000 |
| [[FS\_5GSTAR, 752,788, Block A, 24th May 2100CEST] Basic Process and Functions EDGAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=126170) | Thomas Stockhammer | Thu, 20 May 2021 19:22:51 +0000 |
| [[FS\_5GSTAR, 752,788, Block A, 24th May 2100CEST] Basic Process and Functions EDGAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=120889) | Hakju Ryan Lee | Fri, 21 May 2021 03:45:02 +0900 |

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| [[FS\_5GSTAR, 752,788, Block A, 24th May 2100CEST] Basic Process and Functions EDGAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=7894) | Thomas Stockhammer | Mon, 24 May 2021 13:33:46 +0000 |
| [[FS\_5GSTAR, 752,788, Block A, 24th May 2100CEST] Basic Process and Functions EDGAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=9618) | Thomas Stockhammer | Mon, 24 May 2021 17:51:08 +0000 |

**Presenter: Thomas Stockhammer**

**Online Discussion:**

* Thomas summarizes: <https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_114-e/Inbox/Drafts/Video/S4-210752r04.docx>
* Ryan: Compositor -> AR Runtime

**Decision:**

* Agreed the revision 4 with comments.

**S4-210752** is revised to **S4-210885**.

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| [S4-210885](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210885.zip) | [FS\_5GSTAR] Basic Process and Functions | Qualcomm Incorporated. CMCC, Samsung | Thomas Stockhammer |

**S4-210885** is agreed.

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| [S4-210753](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210753.zip) | [FS\_5GSTAR] 5G Media Delivery in STAR | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 753, Block A, 19th May 2100CEST] 5G Media Delivery in STAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=20934) | teniou(TeniouGilles) | Wed, 19 May 2021 04:08:08 +0000 |
| [[FS\_5GSTAR, 753, Block A, 19th May 2100CEST] 5G Media Delivery in STAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=41543) | Thomas Stockhammer | Wed, 19 May 2021 17:55:13 +0000 |
| [[FS\_5GSTAR, 753, Block A, 19th May 2100CEST] 5G Media Delivery in STAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=61050) | teniou(TeniouGilles) | Wed, 19 May 2021 20:18:00 +0000 |

**Decision:**

* No comment was received.
* The document **S4-210753** is **agreed**.

**S4-210753** is agreed.

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| [S4-210754](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210754.zip) | [FS\_5GSTAR] Proposed Updates to Architectures | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=19935) | teniou(TeniouGilles) | Wed, 19 May 2021 04:08:00 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=65290) | Thorsten Lohmar | Wed, 19 May 2021 21:27:13 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=79102) | Eric Yip | Thu, 20 May 2021 10:30:59 +0900 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=84072) | Thomas Stockhammer | Thu, 20 May 2021 11:29:01 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=86866) | Sanchez de la Fuente, Yago | Thu, 20 May 2021 13:41:28 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=81031) | Hakju Ryan Lee | Thu, 20 May 2021 15:41:51 +0900 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=102147) | Thorsten Lohmar | Thu, 20 May 2021 15:50:26 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=104126) | Thomas Stockhammer | Thu, 20 May 2021 15:56:24 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=135402) | Thomas Stockhammer | Thu, 20 May 2021 21:23:43 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=139838) | Thorsten Lohmar | Thu, 20 May 2021 21:41:46 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=119466) | Hakju Ryan Lee | Fri, 21 May 2021 03:36:46 +0900 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=126952) | Hakju Ryan Lee | Fri, 21 May 2021 04:24:21 +0900 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=136276) | Hakju Ryan Lee | Fri, 21 May 2021 06:30:50 +0900 |

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| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=25830) | Thomas Stockhammer | Tue, 25 May 2021 13:24:16 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=37968) | Thomas Stockhammer | Tue, 25 May 2021 23:10:17 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=40361) | Thomas Stockhammer | Wed, 26 May 2021 05:54:28 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=41458) | Thomas Stockhammer | Wed, 26 May 2021 07:07:33 +0000 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=39508) | Hakju Ryan Lee | Wed, 26 May 2021 13:46:32 +0900 |
| [[FS\_5GSTAR, 754,784,787, Block A, 20th May 2100CEST] Architectures & Procedures](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=40753) | Hakju Ryan Lee | Wed, 26 May 2021 15:00:10 +0900 |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Needs revision based on comments

**Decision:**

* Revised to 878 - will be discussed in offline.

**S4-210754** is revised to **S4-210878**.

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| [S4-210878](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210878.zip) | [FS\_5GSTAR] Proposed Updates to Architectures | Qualcomm Incorporated | Thomas Stockhammer |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* No comments

**Decision:**

* agreed

**S4-210878** is agreed.

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| [S4-210755](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210755.zip) | [FS\_5GSTAR] Call Flow Updates for Streaming to STAR UE | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 755,756, Block A, 19th May 2100CEST] Call Flow Updates for Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=18309) | teniou(TeniouGilles) | Wed, 19 May 2021 04:07:56 +0000 |
| [[FS\_5GSTAR, 755,756, Block A, 19th May 2100CEST] Call Flow Updates for Streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=60056) | teniou(TeniouGilles) | Wed, 19 May 2021 20:12:38 +0000 |

**Decision:**

* No comment was received.
* The document **S4-210755** is **agreed**.

**S4-210755** is agreed.

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| [S4-210756](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210756.zip) | [FS\_5GSTAR] Call Flow Updates for Streaming to EDGAR UE | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

* See S4-210756.

**Decision:**

* No comment was received.
* The document **S4-210756** is **agreed**.

**S4-210756** is agreed.

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| [S4-210776](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210776.zip) | Proposed an extension to MTSI Architecture for AR two-party calls | HiSilicon Technologies Co. Ltd | Yan Liu |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=13837) | teniou(TeniouGilles) | Wed, 19 May 2021 04:07:27 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=28296) | Ahsan, Saba (Nokia - FI/Espoo) | Wed, 19 May 2021 12:52:59 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=45745) | Liuyan (Scarlett) | Wed, 19 May 2021 19:00:14 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=48770) | Imed Bouazizi | Wed, 19 May 2021 19:13:24 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=57174) | Liuyan (Scarlett) | Wed, 19 May 2021 19:46:39 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=58135) | Kyunghun Jung | Wed, 19 May 2021 19:46:55 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=63627) | Ali El Essaili | Wed, 19 May 2021 21:12:35 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=66606) | Liuyan (Scarlett) | Wed, 19 May 2021 22:56:19 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=67552) | Liuyan (Scarlett) | Wed, 19 May 2021 23:06:01 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=68807) | Kyunghun Jung | Thu, 20 May 2021 00:11:44 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=133827) | Liuyan (Scarlett) | Thu, 20 May 2021 21:16:16 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=145521) | Kyunghun Jung | Thu, 20 May 2021 22:27:20 +0000 |
| [[FS\_5GSTAR, 776, Block A, 24th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=74715) | teniou(TeniouGilles) | Thu, 20 May 2021 00:42:22 +0000 |

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| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=852) | Liuyan (Scarlett) | Sun, 23 May 2021 15:39:38 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=3504) | Liuyan (Scarlett) | Mon, 24 May 2021 07:22:33 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=5210) | Liuyan (Scarlett) | Mon, 24 May 2021 08:39:35 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=6034) | Liuyan (Scarlett) | Mon, 24 May 2021 09:29:32 +0000 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=1845) | Hakju Ryan Lee | Mon, 24 May 2021 14:46:04 +0900 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=3257) | Hyun-Koo Yang | Mon, 24 May 2021 15:27:49 +0900 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=4331) | Hakju Ryan Lee | Mon, 24 May 2021 16:57:53 +0900 |
| [[FS\_5GSTAR, 776, Block A, 19th May 2100CEST] MTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=10606) | Curcio, Igor (Nokia - FI/Tampere) | Mon, 24 May 2021 18:04:29 +0000 |

**Online Discussion:**

* May 24, 2021: Gilles reviews status, still many comments.

**Decision:**

* Noted. Expected to be addressed in MTSI SWG

**S4-210776** is noted.

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| [S4-210777](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210777.zip) | Proposed an extension to DCMTSI Architecture for AR two-party calls | HiSilicon Technologies Co. Ltd | Yan Liu |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 777, Block A, 19th May 2100CEST] DCMTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=17535) | teniou(TeniouGilles) | Wed, 19 May 2021 04:07:46 +0000 |
| [[FS\_5GSTAR, 777, Block A, 19th May 2100CEST] DCMTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=51192) | Imed Bouazizi | Wed, 19 May 2021 19:15:29 +0000 |
| [[FS\_5GSTAR, 777, Block A, 19th May 2100CEST] DCMTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=58745) | Kyunghun Jung | Wed, 19 May 2021 19:50:53 +0000 |
| [[FS\_5GSTAR, 777, Block A, 19th May 2100CEST] DCMTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=64500) | Ali El Essaili | Wed, 19 May 2021 21:14:44 +0000 |
| [[FS\_5GSTAR, 777, Block A, 24th May 2100CEST] DCMTSI Architecture for AR calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=75660) | teniou(TeniouGilles) | Thu, 20 May 2021 00:43:15 +0000 |

**Online Discussion:**

* May 24, 2021: Gilles reviews status, still many comments.

**Decision:**

* Noted. Expected to be addressed in MTSI SWG

**S4-210777** is noted.

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| [S4-210782](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210782.zip) | [5GSTAR] Content formats and codecs | Samsung Electronics Czech | Sungryeul Rhyu |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 782, Block A, 20th May 2100CEST] Content formats and codecs](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=14609) | teniou(TeniouGilles) | Wed, 19 May 2021 04:07:43 +0000 |
| [[FS\_5GSTAR, 782, Block A, 20th May 2100CEST] Content formats and codecs](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=92437) | Thomas Stockhammer | Thu, 20 May 2021 14:27:00 +0000 |
| [[FS\_5GSTAR, 782, Block A, 20th May 2100CEST] Content formats and codecs](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=98563) | Thomas Stockhammer | Thu, 20 May 2021 15:33:00 +0000 |
| [[FS\_5GSTAR, 782, Block A, 20th May 2100CEST] Content formats and codecs](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=94901) | Sungryeul Rhyu | Fri, 21 May 2021 00:15:29 +0900 |
| [[FS\_5GSTAR, 782, Block A, 20th May 2100CEST] Content formats and codecs](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=130728) | Sungryeul Rhyu | Fri, 21 May 2021 05:24:21 +0900 |
| [[FS\_5GSTAR, 782, Block A, 20th May 2100CEST] Content formats and codecs](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=147108) | Sungryeul Rhyu | Fri, 21 May 2021 07:57:50 +0900 |

**Presenter:**

**Online Discussion:**

* Agreed with revision

**Decision:**

* Revised and agreed

**S4-210782** is noted/revised to **S4-210879**.

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| [S4-210879](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210879.zip) | [5GSTAR] Content formats and codecs | Samsung Electronics Czech, Qualcomm Incorporated | Sungryeul Rhyu |

**S4-210879** is agreed.

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| [S4-210784](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210784.zip) | [FS\_5GSTAR] Proposed update on EDGAR architecture | Samsung Guangzhou Mobile R&D | Hakju Ryan Lee |

**E-mail Discussion:**

See discussion below [754](#rasok32sofyz).

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

**Online Discussion:**

* Content mostly in 752.

**Decision:**

* Hence noted

**S4-210784** is noted.

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| [S4-210787](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210787.zip) | [FS\_5GSTAR] Updates to Procedures for 5G Downlink Streaming using a STAR UE | Samsung Electronics Co., Ltd. | Eric Yip |

**E-mail Discussion:**

See discussion below [754](#rasok32sofyz).

**Presenter: Eric Yip (Samsung)**

**Online Discussion:**

* There is a revision.
* It is aligned with 755 and 756.

**Decision:**

* The revision is agreed

**S4-210787** is revised to **S4-210877**.

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| [S4-210877](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210877.zip) | [FS\_5GSTAR] Updates to Procedures for 5G Downlink Streaming using a STAR UE | Samsung Electronics Co., Ltd. | Eric Yip |

**S4-210877** is agreed without presentation.

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| [[FS\_5GSTAR] 877 Available in inbox](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=151055) | Eric Yip | Fri, 21 May 2021 10:11:02 +0900 |

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| [S4-210788](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210788.zip) | [FS\_5GSTAR] Proposed Functionalities Updates of 5G EDGAR | China Mobile Com. Corporation | Yujian Yin |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 788, Block A, 19th May 2100CEST] Proposed Functionalities Updates of 5G EDGAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=21701) | teniou(TeniouGilles) | Wed, 19 May 2021 04:08:11 +0000 |
| [[FS\_5GSTAR, 788, Block A, 19th May 2100CEST] Proposed Functionalities Updates of 5G EDGAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=40877) | Thomas Stockhammer | Wed, 19 May 2021 17:53:09 +0000 |
| [[FS\_5GSTAR, 788, Block A, 19th May 2100CEST] Proposed Functionalities Updates of 5G EDGAR](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=61904) | [[log in to unmask]](https://list.etsi.org/scripts/wa.exe?LOGON=A1%3Dind2105C%26L%3D3GPP_TSG_SA_WG4_VIDEO) | Thu, 20 May 2021 04:50:33 +0800 |

**Presenter:**

**Online Discussion:**

**Decision:**

**S4-210788** is noted/revised to **S4-210xxx**/agreed.

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| [S4-210789](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210789.zip) | [FS\_5GSTAR] Update on Use Cases Mapping | China Mobile Com. Corporation | Yujian Yin |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 789, Block A, 19th May 2100CEST] Update on Use Cases Mapping](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=23294) | teniou(TeniouGilles) | Wed, 19 May 2021 04:08:15 +0000 |
| [[FS\_5GSTAR, 789, Block A, 19th May 2100CEST] Update on Use Cases Mapping](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=49548) | Hakju Ryan Lee | Thu, 20 May 2021 04:13:21 +0900 |
| [[FS\_5GSTAR, 789, Block A, 19th May 2100CEST] Update on Use Cases Mapping](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=62824) | Yujian Yin | Thu, 20 May 2021 05:05:23 +0800 |
| [[FS\_5GSTAR, 789, Block A, 24th May 2100CEST] Update on Use Cases Mapping](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=76525) | teniou(TeniouGilles) | Thu, 20 May 2021 00:44:40 +0000 |
| [[FS\_5GSTAR, 789, Block A, 24th May 2100CEST] Update on Use Cases Mapping](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=83142) | Yujian Yin | Thu, 20 May 2021 18:39:52 +0800 |

**Online Discussion:**

* May 24, 2021: Revision provided by CMCC is agreed.

**Decision:**

* Agreed: https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_114-e/Inbox/Drafts/Video/S4-210789r01.docx

**S4-210789** is revised to **S4-210884**.

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| [S4-210819](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210819.zip) | Architecture mapping for AR conversational services and call flow | Ericsson LM | Bo Burman |

**E-mail Discussion:**

|  |  |  |
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| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16736) | teniou(TeniouGilles) | Wed, 19 May 2021 04:07:35 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=99423) | Imed Bouazizi | Thu, 20 May 2021 15:34:47 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=115283) | Ali El Essaili | Thu, 20 May 2021 18:25:27 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=120217) | Imed Bouazizi | Thu, 20 May 2021 18:44:04 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=127594) | Ali El Essaili | Thu, 20 May 2021 19:26:54 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=148430) | Stephane Ragot | Thu, 20 May 2021 23:20:01 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=161997) | Ali El Essaili | Fri, 21 May 2021 15:31:31 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=165009) | teniou(TeniouGilles) | Fri, 21 May 2021 16:37:56 +0000 |

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| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=6993) | Ali El Essaili | Mon, 24 May 2021 11:09:51 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=21363) | Curcio, Igor (Nokia - FI/Tampere) | Mon, 24 May 2021 17:39:08 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=12410) | Stephane Ragot | Mon, 24 May 2021 20:32:17 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=13082) | Kyunghun Jung | Mon, 24 May 2021 20:43:04 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=22990) | Ali El Essaili | Tue, 25 May 2021 10:21:11 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=23861) | Stephane Ragot | Tue, 25 May 2021 10:55:22 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24841) | Curcio, Igor (Nokia - FI/Tampere) | Tue, 25 May 2021 12:38:39 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=26701) | Ali El Essaili | Tue, 25 May 2021 14:38:31 +0000 |
| [[FS\_5GSTAR, 819, Block A, 20th May 2100CEST] Architecture mapping and call flow for AR conversational](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=30820) | Stephane Ragot | Tue, 25 May 2021 19:10:56 +0000 |

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

**Online Discussion:**

* Ali summarizes the situation
* Gilles: Does the figure have to be updated?
	+ Ali: yes once added to the TR
* Yan: imed and I suggested to also to add MTSI. How can we proceed on this?
	+ Gilles: MTSI is one option. The 776 is not at the same stage. This one is more defining the options.
* Stefan: Why do we discuss a new architecture here?
	+ Gilles: just provides options.
	+ Stephane: still some confusion. The middle one is not conversational.
	+ Gilles: it is just a candidate
* May 24, 2021:
	+ Ali explains the update: <https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_114-e/Inbox/Drafts/Video/S4-210819r01.zip>
	+ Stefan Döhla: Maybe not call WebRTC new, but OTT architecture
	+ Igor: Was also some giving comments to discuss with MTSI, more and more comments are coming. Specifically a definition on the data channel, it requires new definition for immersive media. Partially in true. We already do this. In practice in “ITT4RT”
	+ Gilles: suggest to have a call with MTSI for upcoming SWG telco
	+ Stephane: Thanks to capture some of the comments. Still concerned on last column on webRTC. What is new here. Also SA2.
	+ Gilles suggests to extend e-mail discussion.
* May 25:
	+ Revision here: <https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_114-e/Inbox/Drafts/Video/S4-210819r03.zip>
	+ Agreeable

**Decision:**

* May 21: Still not agreed, e-mail discuss is extended
* May 24: Still not agreed, e-mail discuss is extended
* May 25: Rev-3 is agreeable

**S4-210819** is revised to **S4-210892**.

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| [S4-210892](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210892.zip) | Architecture mapping for AR conversational services and call flow | Ericsson LM | Bo Burman |

**S4-210892** is agreed.

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| S4-210846 | [FS\_5GSTAR] Examination of Requirements for Spatial Computing and 3D World Map services in 5G AR Use Cases | B-Com | Muriel Deschanel |

**S4-210846** is withdrawn.

|  |  |  |  |
| --- | --- | --- | --- |
| S4-210856 | [FS\_5GSTAR] Background on MPEG Scene Description | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
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| [[FS\_5GSTAR, 856, Block A, 20th May 2100CEST] Background on MPEG Scene Description](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16048) | teniou(TeniouGilles) | Wed, 19 May 2021 04:07:32 +0000 |
| [[FS\_5GSTAR, 856, Block A, 20th May 2100CEST] Background on MPEG Scene Description](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=100304) | Ahsan, Saba (Nokia - FI/Espoo) | Thu, 20 May 2021 15:40:50 +0000 |
| [[FS\_5GSTAR, 856, Block A, 20th May 2100CEST] Background on MPEG Scene Description](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=123870) | Imed Bouazizi | Thu, 20 May 2021 19:11:01 +0000 |
| [[FS\_5GSTAR, 856, Block A, 20th May 2100CEST] Background on MPEG Scene Description](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=154730) | Hakju Ryan Lee | Fri, 21 May 2021 12:49:01 +0900 |

**Presenter: Thomas Stockhammer**

**Online Discussion:**

* Saba: 856 and the agreed contribution has some overlap.
	+ Ryan: It is a different section
	+ Thomas: agree, but different section.
* Thomas: agree this version
	+ Ryan: I am ok

**Decision:**

* Agreed with revision

**S4-210856** is revised to **S4-210880**.

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| S4-210880 | [FS\_5GSTAR] Background on MPEG Scene Description | Qualcomm Incorporated | Thomas Stockhammer |

**S4-210880** is agreed.

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| S4-210857 | [FS\_5GSTAR] AR Runtime Overview | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 857, Block A, 20th May 2100CEST] AR Runtime Overview](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=15377) | teniou(TeniouGilles) | Wed, 19 May 2021 04:07:39 +0000 |
| [[FS\_5GSTAR, 857, Block A, 20th May 2100CEST] AR Runtime Overview](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=137266) | teniou(TeniouGilles) | Thu, 20 May 2021 21:31:10 +0000 |

**Decision:**

* No comment was received.
* The document **S4-210857** is **agreed**.

**S4-210857** is agreed.

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| [S4-210874](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210874.zip) | TR 26.998v0.8.0 | Samsung Guangzhou Mobile R&D | Hakju Ryan Lee |

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

**Online Discussion:**

* No comments - many agreed documents

**Decision:**

* Agreed as basis for future work.

**S4-210874** is agreed and is presented to SA4 plenary.

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| [S4-210875](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210875.zip) | [FS\_5GSTAR] Permanent Document | Samsung Guangzhou Mobile R&D | Hakju Ryan Lee |

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

**Online Discussion:**

* No comments

**Decision:**

* Agreed as basis for future work.

**S4-210875** is agreed.

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| --- | --- | --- | --- |
| [S4-210876](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210876.zip) | [FS\_5GSTAR] Proposed Timeplan | Samsung Guangzhou Mobile R&D | Hakju Ryan Lee |

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

**Online Discussion:**

* There is a revised version: https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_114-e/Inbox/Drafts/Video/S4-210876r3.doc

**Decision:**

* Agreed on the revision r3.

**S4-210876** is revised to **S4-210965**

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| [S4-210965](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_114-e/Docs/S4-210965.zip) | [FS\_5GSTAR] Proposed Timeplan | Samsung Guangzhou Mobile R&D | Hakju Ryan Lee |

**S4-210965** is agreed and is presented to SA4 plenary.

## 10.10 New Work / New Work Items and Study Items

none.

## 10.11 Liaisons and Liaison Responses

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| S4-210800 | Proposed LS to 8K Association | Qualcomm communications-France | Thomas Stockhammer |

**E-mail Discussion:**

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| [[LSout, 800, Block B, 26th May 2100CEST] Proposed LS to 8K Association](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=18489) | teniou(TeniouGilles) | Mon, 24 May 2021 20:49:47 +0000 |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Wrong recipient
* Fix last sentence

**Decision:**

* Agreed with online edits

**S4-210800** is revised to **S4-210889**.

|  |  |  |  |
| --- | --- | --- | --- |
| S4-210889 | Proposed LS to 8K Association | Qualcomm communications-France | Thomas Stockhammer |

**S4-210889** is agreed and presented to the SA4 plenary.

## 10.12 Any Other Business

The report will be made available.

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| S4-210706 | Video SWG report during SA4 meeting | Tencent | Gilles Teniou |

Offline Calls

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| [5G Video Offline on WID Update](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=172112) | Thomas Stockhammer | Fri, 21 May 2021 20:15:53 +0000 |
| [5G Video: Offline for Config Files (S4-210747)](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=149468) | Thomas Stockhammer | Thu, 20 May 2021 23:25:40 +0000 |
| [Draft version of 881](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=158660) | Fabrice Plante | Thu, 20 May 2021 23:10:12 -0700 |
| [Draft version of 881](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=163803) | Fabrice Plante | Fri, 21 May 2021 09:28:43 -0700 |
| [Draft version of 881](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=166439) | teniou(TeniouGilles) | Fri, 21 May 2021 17:41:54 +0000 |
| [FS\_5GVideo SID update - offline](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=172336) | teniou(TeniouGilles) | Fri, 21 May 2021 20:22:42 +0000 |
| [Revised SID for 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=149250) | Thomas Stockhammer | Thu, 20 May 2021 23:24:10 +0000 |
| [Revised SID for 5G Video (742, 858 -> 881)](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=149930) | Thomas Stockhammer | Thu, 20 May 2021 23:38:13 +0000 |
| [STAR Calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=117916) | Thomas Stockhammer | Thu, 20 May 2021 18:30:42 +0000 |
| [STAR Calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=132737) | Iraj Sodagar | Thu, 20 May 2021 20:47:18 +0000 |
| [STAR Calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=152977) | Christine Perey | Thu, 20 May 2021 21:37:26 -0400 |
| [STAR Calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=140939) | Thorsten Lohmar | Thu, 20 May 2021 21:44:37 +0000 |
| [STAR Calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=146205) | Ahmed Hamza | Thu, 20 May 2021 22:33:52 +0000 |
| [STAR Calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=121641) | Hakju Ryan Lee | Fri, 21 May 2021 03:57:42 +0900 |
| [STAR Calls](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=159459) | Jérome ROYAN | Fri, 21 May 2021 06:52:33 +0000 |
| [STAR OFFLINE (752, 753, 787)](https://list.etsi.org/scripts/wa.exe?A2=ind2105C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=149708) | Thomas Stockhammer | Thu, 20 May 2021 23:37:36 +0000 |

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| [FS\_5GVideo SID update - final version](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=47636) | teniou(TeniouGilles) | Wed, 26 May 2021 16:48:49 +0000 |
| [FS\_5GVideo SID update - offline](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=11268) | teniou(TeniouGilles) | Mon, 24 May 2021 19:55:28 +0000 |
| [FS\_5GVideo SID update - offline](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=34335) | teniou(TeniouGilles) | Tue, 25 May 2021 20:53:02 +0000 |
| [FS\_5GVideo SID update - offline](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=45333) | teniou(TeniouGilles) | Wed, 26 May 2021 14:29:43 +0000 |

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| [5G Video Offline again](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=35395) | Thomas Stockhammer | Tue, 25 May 2021 21:00:38 +0000 |
| [Offline 5G Video](https://list.etsi.org/scripts/wa.exe?A2=ind2105D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=21154) | Thomas Stockhammer | Mon, 24 May 2021 21:35:31 +0000 |

## 10.13 Close of the session

The chairman thanked the participants. Dave Singer thanked the chairman on behalf of the delegates.

The online session was closed on May 27, 2021 at 0:08 (CEST).

E-mail approval for documents was concluded on May 26, 2021 at 21:00 (CEST)

## 10.14 Attendees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TITLE** | **Family Name** | **Given Name** | **Employer Organization** | **Attended** |
| Dr. | Abhishek | Rohit | Tencent | N |
| Ms. | Ahsan | Saba | Nokia Corporation | N |
| Mr. | Aracena | Mauricio | Ericsson LM | N |
| Dr. | Bouazizi | Imed | Qualcomm Incorporated | N |
| Dr. | Bradbury | Richard | BBC | N |
| Dr. | Bruhn | Stefan | Dolby Laboratories Inc. | N |
| Dr. | Budagavi | Madhukar | Samsung Research America | N |
| Mr. | Burdinat | Christophe | ATEME | N |
| Mr. | Burman | Bo | Ericsson LM | N |
| Mr. | Champel | Mary-Luc | Beijing Xiaomi Mobile Software | N |
| Dr. | Chan | Yee Sin | Facebook | N |
| Dr. | Chen | Lulin | MediaTek Inc. | N |
| Dr. | Curcio | Igor | Nokia Corporation | N |
| Mr. | Dadas | Mohammed | Orange | N |
| Mr. | Dawkins | Spencer | Tencent | N |
| Mr. | De Bont | Frans | Philips International B.V. | N |
| Ms. | Deschanel | Muriel | B-Com | Y |
| Mr. | Doehla | Stefan | Fraunhofer IIS | Y |
| Dr. | Ehara | Hiroyuki | Panasonic Corporation | N |
| Dr. | El Essaili | Ali | Ericsson GmbH, Eurolab | N |
| Dr. | Feiten | Bernhard | Deutsche Telekom AG | N |
| Dr. | FOURDEUX | Henri | InterDigital France R&D, SAS | Y |
| Mr. | Gabin | Frederic | Dolby Laboratories Inc. | N |
| Mr. | Gibellino | Diego | TELECOM ITALIA S.p.A. | N |
| Dr. | Gorley | Paul | BBC | N |
| Mr. | Gu | Xiaojun | HUAWEI TECHNOLOGIES Co. Ltd. | N |
| Mr. | Gudumasu | Srinivas | InterDigital Communications | N |
| Mr. | Gunkel | Simon | TNO | N |
| Dr. | Hamza | Ahmed | InterDigital Communications | Y |
| Mr. | Heikkilä | Gunnar | Ericsson LM | Y |
| Dr. | Hu | James | AT&T GNS Belgium SPRL | N |
| Dr. | Huang-fu | JJ | MediaTek Inc. | N |
| Dr. | Isabelle | Scott | Amazon | Y |
| Mr. | Isberg | Peter | Sony Europe B.V. | Y |
| Mr. | Jansson Toftgård | Tomas | Ericsson LM | N |
| Dr. | Jelinek | Milan | VoiceAge Corporation | N |
| Dr. | Joshi | Rajan | Samsung Research America | N |
| Dr. | Jung | Kyunghun | Facebook | N |
| Mr. | Kerdranvat | Michel | InterDigital France R&D, SAS | N |
| Dr. | Kim | Wuk | Samsung R&D Institute UK | N |
| Dr. | Kolan | Prakash | Samsung Research America | N |
| Dr. | Kroon | Peter | Apple Benelux B.V. | N |
| Mr. | Kwon | WooSuk | LG Electronics Inc. | Y |
| Mr. | Laaksonen | Lasse | Nokia Corporation | N |
| Dr. | Lee | Brian | Dolby Laboratories Inc. | Y |
| Dr. | Lee | Hakju Ryan | Samsung R&D Institute UK | Y |
| Mr. | Lei | Yu | Beijing Xiaomi Mobile Software | N |
| Mr. | Lemotheux | Julien | Orange | Y |
| Mr. | Leung | Nikolai | Qualcomm CDMA Technologies | N |
| Mr. | Libunao | Gerardo | Verizon UK Ltd | N |
| Dr. | Litwic | Lukasz | Ericsson LM | N |
| Mr. | LIU | Jianning(Carry) | Beijing Xiaomi Mobile Software | N |
| Mrs. | Liu | Yan | HUAWEI TECHNOLOGIES Co. Ltd. | N |
| Ms. | liu | yutian | Transsion Holdings | N |
| Mr. | Lo | Charles | Qualcomm CDMA Technologies | N |
| Dr. | Lohmar | Thorsten | Ericsson LM | N |
| Ms. | Lu | Wei | Xiaomi Technology | N |
| Mrs. | Martin-Cocher | Gaelle | InterDigital, Europe, Ltd. | N |
| Mr. | Morita | Naotaka | NTT | N |
| Dr. | Moriya | Takehiro | NTT | N |
| Mr. | Multrus | Markus | Fraunhofer IIS | N |
| Mr. | Nangia | Vijay | Motorola Mobility UK Ltd. | N |
| Mr. | Noblet | Ludovic | B-Com | N |
| Dr. | Oyman | Ozgur | Intel Corporation (UK) Ltd | N |
| Dr. | Pan | Qi | HUAWEI Technologies Japan K.K. | N |
| Mr. | Pavlov | Dimitar | VODAFONE Group Plc | N |
| Mr. | Peng | Ke | ZTE Corporation | N |
| Ms. | Perey | Christine | Perey Research & Consulting | N |
| Mr. | Plante | Fabrice | Apple Italia S.R.L. | N |
| Mr. | Pousi | Timo | Ericsson LM | N |
| Mr. | Pudney | Chris | VODAFONE Group Plc | N |
| Mr. | Ragot | Stephane | Orange | N |
| Mr. | Reimes | Jan | HEAD acoustics GmbH | N |
| Mr. | Rhyu | Sungryeul | Samsung Electronics Co., Ltd | Y |
| Mr. | Royan | Jerome | B-Com | Y |
| Ms. | Saha | Jayeeta | TSDSI | N |
| Mr. | Schevciw | Andre | Qualcomm Technologies Int | N |
| Mr. | Singer | David | Apple (UK) Limited | N |
| Dr. | Sodagar | Iraj | Tencent | N |
| Dr. | Song | Jaeyeon | Samsung Electronics Co., Ltd | N |
| Mr. | Steck | Chris | Cisco Systems France | Y |
| Dr. | Stockhammer | Thomas | Qualcomm CDMA Technologies | Y |
| Dr. | Su | Huan-yu | HuaWei Technologies Co., Ltd | N |
| Dr. | Szczerba | Marek | Philips International B.V. | N |
| Dr. | TAN | PENG | TELUS | N |
| Dr. | Tech | Gerhard | Fraunhofer HHI | N |
| Mr. | Teniou | Gilles | Tencent | N |
| Mr. | Thomas | Emmanuel | Beijing Xiaomi Mobile Software | Y |
| Dr. | Tossavainen | Antero | HUAWEI TECHNOLOGIES Co. Ltd. | N |
| Dr. | Tourapis | Alexandros | Apple GmbH | N |
| Mr. | Varga | Imre | Qualcomm CDMA Technologies | N |
| Mr. | Wang | Bin | HUAWEI TECH. GmbH | N |
| Mr. | Wang | Dong | Guangdong OPPO Mobile Telecom. | N |
| Dr. | Wang | Xin | MediaTek Inc. | N |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Software | N |
| Ms. | Wu | Shuxia | Honor | N |
| Mr. | Xie | Minjie | OPPO | N |
| Mr. | Xu | Song | China Mobile Com. Corporation | N |
| Dr. | Yang | Hyun-Koo | Samsung Electronics Co., Ltd | N |
| Mr. | Yang | Weidong | Apple Europe Limited | N |
| Mrs. | Yin | Yujian | China Mobile Com. Corporation | Y |
| Mr. | Yip | Eric | Samsung Electronics Co., Ltd | Y |
| Mr. | Zhang | Pengfei | vivo Mobile Communication Co., | N |
| Mr. | Sanchez | Yago | Fraunhofer HHI | Y |