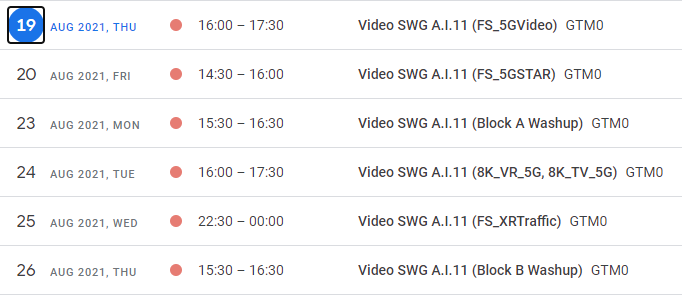
Video SWG Minutes during SA4#115e

## 11.1 Opening of the session

Mr. Gilles Teniou (Tencent, Chairman of Video SWG) opens the Video SWG on August 19, 2021 at 16:00 CEST.

E-mail discussion started already on Wed, 18 Aug 2021 07:41:51 +0000

**Schedule:**



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

The minutes are shared [Video SWG Minutes during SA4#115e](https://docs.google.com/document/d/1DGYFBTMi07xwxaHHRvW9O0rApp_2U2915cgyhlJGGL0/edit?usp=sharing).

Attendees are listed [here](#kix.n1upwvkp78nv), please add attendance ‘Y’.

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

* https://list.etsi.org/scripts/wa.exe?A1=ind2108C&L=3GPP\_TSG\_SA\_WG4\_VIDEO
* https://list.etsi.org/scripts/wa.exe?A1=ind2108D&L=3GPP\_TSG\_SA\_WG4\_VIDEO

Latest Timestamp for e-mail discussions considered in the report: Thu, 26 Aug 2021 14:34:26 +0000.

|  |  |  |
| --- | --- | --- |
| [3GPP SA4#115-e meeting - Proposed VIDEO SWG agenda + Tdoc allocation](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d29d92b3.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 07:41:51 +0000 |
| [3GPP SA4#115-e meeting - Proposed VIDEO SWG agenda + Tdoc allocation](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9ded8e5d.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 07:49:39 +0000 |
| [3GPP SA4#115-e meeting - Proposed VIDEO SWG agenda + Tdoc allocation](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;1bfcf4f.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 08:15:11 +0000 |

The agenda and the registration of documents are agreed.

## 11.2 Registration of documents

|  |  |  |  |
| --- | --- | --- | --- |
| 6.1 | SA4 SWG ad hoc meetings | Plenary | 1144app, 1145app, 1146app, 1147app, 1148app (Video SWG) |
| 6.2 | Other 3GPP groups | Plenary | 1057 (RAN1) -> Video SWG |
| 6.3 | Other groups | Plenary | 1054 (MPEG) -> Video SWG  1070 (WAVE) -> Video SWG  1179 (MPEG) -> Video SWG |
| 11 | Video SWG | - |  |
| 11.1 | Opening of the session | A |  |
| 11.2 | Registration of documents | A |  |
| 11.3 | Reports and liaisons from other groups | A |  |
| 11.4 | CRs to features in Release 16 and earlier | A | 1016 (n/a) |
| 11.5 | 8K\_VR\_5G (Operation Points for 8K VR 360 Video over 5G) | A | 1035 |
| 11.6 | 8K\_TV\_5G (8K Television over 5G) | A | 1017, 1018, 1019, 102 |
| 11.7 | FS\_VR\_CoGui (Feasibility Study on VR Streaming Conformance and Guidelines) | B |  |
| 11.8 | FS\_5GVideo (Feasibility Study on 5G Video Codec Characteristics) | A | 1021->1040, 1022, 1023, 1025, 1169, 1170, 1172,    1024, 1026 (n/a) |
| 11.9 | FS\_XRTraffic (Feasibility Study on Typical Traffic Characteristics for XR Services and other Media) | B | 1027 (n/a), 1028 (n/a), 1029 (n/a) |
| 11.10 | FS\_5GSTAR (Feasibility Study on 5G Glass-type AR/MR Devices) | A | 1030, 1031, 1032, 1033, 1034, 1047, 1071, 1072, 1073, 1074, 1075, 1081, 1083, 1120, 1121, 1122, 1124, 1125, 1140, 1159, 1171 |
| 11.11 | New Work / New Work Items and Study Items | B |  |
| 11.12 | Liaisons and Liaison Responses | B |  |
| 11.13 | Any Other Business | B |  |
| 11.14 | Close of the session | B |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Agenda item** |
| [**S4-211057**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211057.zip) | LS response on New Standardized 5QIs for 5G-AIS (Advanced Interactive Services) | 3GPP RAN1 | 6.2 |
| [**S4-211054**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211054.zip) | Liaison Statement from SC 29/WG 03 to 3GPP SA4 on New HEVC CMAF Media Profiles [SC 29/WG 03 N 276] | ISO-IECJTC1-SC29 | 6.3 |
| [**S4-211070**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211070.zip) | WAVE Project liaison regarding alignment on CMAF Media Profiles | WAVW | 6.3 |
| [S4-211179](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211179.zip) | Liaison Statement f on Essential Video Coding | ISO/IEC JTC 1/SC 29 WG 04 | 6.3 |
| [S4-211016](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211016.zip) | Miscellaneous Fixes to TV Video Profile | Qualcomm Incorporated | 11.4 |
| [**S4-211035**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211035.zip) | Typical Traffic Characteristics | Qualcomm Incorporated | 11.5 |
| [**S4-211017**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211017.zip) | [8K\_TV\_5G] Proposed Work Plan | Qualcomm Incorporated | 11.6 |
| [**S4-211018**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211018.zip) | [8K\_TV\_5G] 8K HEVC Operation Point | Qualcomm Incorporated | 11.6 |
| [**S4-211019**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211019.zip) | [8K\_TV\_5G] 8K TV Scenario | Qualcomm Incorporated | 11.6 |
| [**S4-211020**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211020.zip) | [8K\_TV\_5G] 8K TV Traffic Characteristics | Qualcomm Incorporated | 11.6 |
| [**S4-211021**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211021.zip) | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | 11.8 |
| [**S4-211022**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211022.zip) | TR26.955: Proposed Editor's Update | Qualcomm Incorporated | 11.8 |
| [**S4-211023**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211023.zip) | [FS\_5G\_Video] Status Update | Qualcomm Incorporated | 11.8 |
| [**S4-211024**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211024.zip) | pCR26.955: FullHD Streaming | Qualcomm Incorporated | 11.8 |
| [**S4-211025**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211025.zip) | pCR26.955: Software Updates | Qualcomm Incorporated | 11.8 |
| [S4-211026](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211026.zip) | [FS\_5G\_Video] Characterization | Qualcomm Incorporated | 11.8 |
| [**S4-211040**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211040.zip) | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | 11.8 |
| [**S4-211169**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211169.zip) | Report from offline telco on FS\_5GVideo metrics | Ericsson LM | 11.8 |
| [**S4-211170**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211170.zip) | Test vectors for FS\_5GVideo metrics computation | Ericsson LM | 11.8 |
| [**S4-211172**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211172.zip) | [FS\_5GVideo] pCR 26.955: Updated EVC Configuration Files | Samsung Electronics Co. Ltd., Qualcomm Inc. | 11.8 |
| [S4-211027](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211027.zip) | [FS\_XRTraffic] Proposed Workplan Updates | Qualcomm Incorporated | 11.9 |
| [S4-211028](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211028.zip) | [FS\_XRTraffic] Proposed Updated TR26.926 | Qualcomm Incorporated | 11.9 |
| [S4-211029](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211029.zip) | [FS\_XRTraffic] Remaining Open Issues | Qualcomm Incorporated | 11.9 |
| [**S4-211030**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211030.zip) | [FS\_5GSTAR] Proposes Updates to TR | Qualcomm Incorporated | 11.10 |
| [**S4-211031**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211031.zip) | [FS\_5GSTAR] Improved user experience for WLAR UE | Qualcomm Incorporated | 11.10 |
| [**S4-211032**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211032.zip) | [FS\_5GSTAR] Updates to 5G Media Delivery in STAR | Qualcomm Incorporated | 11.10 |
| [**S4-211033**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211033.zip) | [FS\_5GSTAR] KPIs and Metrics | Qualcomm Incorporated | 11.10 |
| [**S4-211034**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211034.zip) | [FS\_5GSTAR] Some Initial Conclusions | Qualcomm Incorporated | 11.10 |
| [**S4-211047**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211047.zip) | Coordinating operation of Uu and Wirelss Connectivity in 5G WireLess Tethered AR (WLAR) UE | Facebook, Qualcomm Incorporated, Samsung Electronics Co. Ltd. | 11.10 |
| [**S4-211071**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211071.zip) | [FS\_5GSTAR] Media Decoders management and coordination | Xiaomi Communications | 11.10 |
| [**S4-211072**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211072.zip) | [FS\_5GSTAR] Editorial improvements | Xiaomi Communications | 11.10 |
| [**S4-211073**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211073.zip) | [FS\_5GSTAR] Proposed text for general | Samsung Electronics Czech | 11.10 |
| [**S4-211074**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211074.zip) | [FS\_5GSTAR] Ch.7 Devices form-factor related Issues | Samsung Electronics Co., Ltd | 11.10 |
| [**S4-211075**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211075.zip) | [FS\_5GSTAR] Proposed update on cluase 4.2 | Samsung Electronics Czech | 11.10 |
| [**S4-211081**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211081.zip) | RTC and OTT QoS support in 5G-STAR | QUALCOMM Europe Inc. - Italy | 11.10 |
| [**S4-211083**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211083.zip) | Proposed an Instantiation to DCMTSI Architecture for AR two-party calls | HUAWEI TECHNOLOGIES Co. Ltd. | 11.10 |
| [**S4-211120**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211120.zip) | [5GSTAR] Updated Work Plan | Samsung Research America | 11.10 |
| [**S4-211121**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211121.zip) | [FS\_5GSTAR] Updates on clause 6 | Samsung Research America | 11.10 |
| [**S4-211122**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211122.zip) | [FS\_5GSTAR] EDGAR-based media streaming update | Tencent | 11.10 |
| [**S4-211124**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211124.zip) | [FS\_5GSTAR] Procedures and call flows for interactive immersive services | Samsung R&D Institute UK | 11.10 |
| [**S4-211125**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211125.zip) | [FS\_5GSTAR] Procedures and call flows for 5G cognitive immersive services | Samsung R&D Institute UK | 11.10 |
| [**S4-211140**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211140.zip) | Use cases for conversational services | Samsung Electronics Co., Ltd. | 11.10 |
| [**S4-211159**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211159.zip) | pCR AR two-party conversational services | Ericsson LM | 11.10 |
| [**S4-211171**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211171.zip) | Background on MPEG Standards for Encapsulation and Signalling of Volumetric Media | InterDigital Communications | 11.10 |

## 11.3 Reports and liaisons from other groups

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-211057](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211057.zip) | LS response on New Standardized 5QIs for 5G-AIS (Advanced Interactive Services) | 3GPP RAN1 | Jayeeta Saha |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[LS in, 1057, Block B, 25th Aug. 1400CEST] RAN1 on New Standardized 5QIs for 5G-AIS](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ac2318cb.2108D&S=) | teniou(TeniouGilles) | Mon, 23 Aug 2021 12:47:30 +0000 |
| [[LS in, 1057, Block B, 25th Aug. 1400CEST] RAN1 on New Standardized 5QIs for 5G-AIS](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c8ce631.2108D&S=) | Thomas Stockhammer | Mon, 23 Aug 2021 21:14:03 +0000 |
| [[LS in, 1057, Block B, 25th Aug. 1400CEST] RAN1 on New Standardized 5QIs for 5G-AIS](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ce68edb6.2108D&S=) | Thomas Stockhammer | Tue, 24 Aug 2021 10:02:29 +0000 |
| [[LS in, 1057, Block B, 25th Aug. 1400CEST] RAN1 on New Standardized 5QIs for 5G-AIS](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d8c47d50.2108D&S=) | teniou(TeniouGilles) | Tue, 24 Aug 2021 13:19:15 +0000 |

**Revisions**

none

**Decision:**

* It was received as the only comment and makes sense for the record.
* The document [**S4-211057**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211057.zip) is **noted** and its content will be integrated into the FS\_XRTraffic Permanent Document by the rapporteur.

[**S4-211057**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211057.zip) is noted.

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| --- | --- | --- | --- |
| [S4-211054](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211054.zip) | Liaison Statement from SC 29/WG 03 to 3GPP SA4 on New HEVC CMAF Media Profiles [SC 29/WG 03 N 276] | ISO-IECJTC1-SC29 | Jayeeta Saha |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[LS in, 1054, Block B, 25th Aug. 1400CEST] MPEG on 8K HEVC media profiles](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6c5f7b84.2108D&S=) | teniou(TeniouGilles) | Mon, 23 Aug 2021 13:27:53 +0000 |
| [[LS in, 1054, Block B, 25th Aug. 1400CEST] MPEG on 8K HEVC media profiles](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d9235dd.2108D&S=) | teniou(TeniouGilles) | Tue, 24 Aug 2021 13:22:00 +0000 |

**Revisions**

none

**Online Presenter: Gilles Teniou (Orange)**

**Online Discussion:**

* Thomas: it is strange that we do not get the latest information from MPEG.
  + Gilles: this is what we have in hand.
  + Thomas: no value, we can note.

**Decision:**

* Noted

[**S4-211054**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211054.zip) is noted.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-211070](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211070.zip) | WAVE Project liaison regarding alignment on CMAF Media Profiles | WAVW | Jayeeta Saha |

**E-mail Discussion:**

none

**Revisions**

none

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Thomas: we do not have to respond, but we can do so through individual members.
  + Gilles: but we have some good stuff on different topics, maybe we should summarize the work in 5G Video and in 8K TV.
  + Thomas: ok, I will draft a response.

**Decision:**

* We reply reporting on our efforts.

[**S4-211070**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211070.zip) is replied to in [**S4-211207**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211207.zip).

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-211207](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211207.zip) | Reply LS to WAVE Project liaison regarding alignment on CMAF Media Profiles | 3GPP TSG SA WG4 | Thomas Stockhammer |

[**S4-211207**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211207.zip) is presented to SA4 plenary.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-211179](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211179.zip) | Liaison Statement f on Essential Video Coding | ISO/IEC JTC 1/SC 29 WG 04 | Jayeeta Saha |

**E-mail Discussion:**

none

**Revisions**

none

**Online Presenter: Rajan Joshi (Samsung)**

**Online Discussion:**

* Gilles: Will the reference software be publicly available?
  + Rajan: not by October, but anyone can access reference software
* Thomas: anything to be added to the TR?
  + Rajan: yes, I can provide some text for the TR
* Madhukar: Some updates on reference would also be appropriate.

**Decision:**

* Noted
* Rajan provides text to Thomas to be added to the draft TR.
  + Editor’s Note: The ETM software is not available to the general public at this time. It is expected to become available to the general public in October 2021. Anybody interested in accessing the software before that may contact Rajan Joshi (r.joshi@samsung.com).

[**S4-211179**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211179.zip) is noted.

## 11.4 CRs to features in Release 16 and earlier

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-211016](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211016.zip) | Miscellaneous Fixes to TV Video Profile | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[Maintenance, 1016, Block B, 24th Aug. 1400CEST] Miscellaneous Fixes to TV Video Profile](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;99964ed5.2108D&S=) | teniou(TeniouGilles) | Tue, 24 Aug 2021 11:20:11 +0000 |
| [[Maintenance, 1016, Block B, 24th Aug. 1400CEST] Miscellaneous Fixes to TV Video Profile](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ab96a7f2.2108D&S=) | Thomas Stockhammer | Tue, 24 Aug 2021 13:19:25 +0000 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211016](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211016.zip)-26116-fixes-r01.zip

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Dave: normally called video range
  + Thomas ok will change

**Decision:**

* Agreed with change above
* Create an official CR

[**S4-211016**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211016.zip) is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-211204](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211204.zip) | CR26.116-0016: Miscellaneous Fixes to TV Video Profile (Rel-16) | Qualcomm Incorporated, Tencent | Thomas Stockhammer |

|  |  |  |
| --- | --- | --- |
| [Upload of 1204](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;66c87916.2108D&S=) | Thomas Stockhammer | Thu, 26 Aug 2021 08:37:02 +0000 |

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* none

**Decision:**

* agreed

[**S4-211204**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211204.zip) is agreed and will be presented to the SA4 plenary under agenda item 15.

## 11.5 8K\_VR\_5G (Operation Points for 8K VR 360 Video over 5G)

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

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-211035](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211035.zip) | Typical Traffic Characteristics | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8K\_VR\_5G, 1035, Block B, 24th Aug. 1400CEST] Typical Traffic Characteristics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;57054470.2108D&S=) | teniou(TeniouGilles) | Mon, 23 Aug 2021 11:49:45 +0000 |
| [[8K\_VR\_5G, 1035, Block B, 24th Aug. 1400CEST] Typical Traffic Characteristics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7e472621.2108D&S=) | teniou(TeniouGilles) | Tue, 24 Aug 2021 13:59:18 +0000 |

**Revisions**

none

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* No comments

**Decision:**

* agreed

[**S4-211035**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211035.zip) is agreed and will be presented to the SA4 plenary under agenda item 16.5.

## 11.6 8K\_TV\_5G (8K Television over 5G)

WID:[*SP-210382*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_92E_Electronic/Docs/SP-210381.zip) 8K Television over 5G

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| [S4-211017](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211017.zip) | [8K\_TV\_5G] Proposed Work Plan | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8K\_TV\_5G, 1017, Block B, 24th Aug. 1400CEST] Proposed workplan](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7a96e368.2108D&S=) | teniou(TeniouGilles) | Mon, 23 Aug 2021 11:49:58 +0000 |
| [[8K\_TV\_5G, 1017, Block B, 24th Aug. 1400CEST] Proposed workplan](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6f9a1495.2108D&S=) | teniou(TeniouGilles) | Tue, 24 Aug 2021 13:24:02 +0000 |

**Revisions**

none

**Online Discussion:**

* agreed

**Decision:**

* No comment was received.
* The document [**S4-211017**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211017.zip) is **agreed**.

[**S4-211017**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211017.zip) is agreed and will be presented to the SA4 plenary.

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| [S4-211018](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211018.zip) | [8K\_TV\_5G] 8K HEVC Operation Point | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[8K\_TV\_5G, 1018, Block B, 24th Aug. 1400CEST] 8K HEVC Operation Point](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d2e1c952.2108D&S=) | teniou(TeniouGilles) | Mon, 23 Aug 2021 11:49:52 +0000 |
| [[8K\_TV\_5G, 1018, Block B, 24th Aug. 1400CEST] 8K HEVC Operation Point](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2f13d607.2108D&S=) | Richard Bradbury | Mon, 23 Aug 2021 15:54:50 +0100 |
| [[8K\_TV\_5G, 1018, Block B, 24th Aug. 1400CEST] 8K HEVC Operation Point](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ad8517e2.2108D&S=) | Thomas Stockhammer | Tue, 24 Aug 2021 10:37:08 +0000 |
| [[8K\_TV\_5G, 1018, Block B, 24th Aug. 1400CEST] 8K HEVC Operation Point](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8801afca.2108D&S=) | Emmanuel Thomas | Tue, 24 Aug 2021 11:37:09 +0000 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211018](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211018.zip)-8K-HEVCr01.docx

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Emmanuel: there is a typo 7320 => 7680
  + Thomas: ok, need to fix

**Decision:**

* Agreed with comments and revisions
* Serves as the baseline for future work

[**S4-211018**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211018.zip) is revised to [**S4-211205**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211205.zip).

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| [S4-211205](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211205.zip) | [8K\_TV\_5G] 8K HEVC Operation Point | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211205**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211205.zip) is agreed and will be presented to the SA4 plenary under agenda item 16.9.

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| [S4-211019](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211019.zip) | [8K\_TV\_5G] 8K TV Scenario | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[8K\_TV\_5G, 1019, Block B, 24th Aug. 1400CEST] 8K TV Scenario](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f0829507.2108D&S=) | teniou(TeniouGilles) | Mon, 23 Aug 2021 11:50:07 +0000 |
| [[8K\_TV\_5G, 1019, Block B, 24th Aug. 1400CEST] 8K TV Scenario](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;98a8873c.2108D&S=) | Richard Bradbury | Mon, 23 Aug 2021 15:56:32 +0100 |
| [[8K\_TV\_5G, 1019, Block B, 24th Aug. 1400CEST] 8K TV Scenario](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3989a54b.2108D&S=) | Thomas Stockhammer | Tue, 24 Aug 2021 10:31:20 +0000 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211019](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211019.zip)-26.955-8K-HEVCr01.docx

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* none.

**Decision:**

* Agreed as the basis for future work

[**S4-211019**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211019.zip) is revised to [**S4-211206**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211206.zip).

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| [S4-211206](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211206.zip) | [8K\_TV\_5G] 8K TV Scenario | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211206**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211206.zip) is agreed.

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| [S4-211020](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211020.zip) | [8K\_TV\_5G] 8K TV Traffic Characteristics | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[8K\_TV\_5G, 1020, Block B, 24th Aug. 1400CEST] 8K TV Traffic Characteristics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;454cd47b.2108D&S=) | teniou(TeniouGilles) | Mon, 23 Aug 2021 11:50:12 +0000 |
| [[8K\_TV\_5G, 1020, Block B, 24th Aug. 1400CEST] 8K TV Traffic Characteristics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f72ded3f.2108D&S=) | teniou(TeniouGilles) | Tue, 24 Aug 2021 13:27:07 +0000 |

**Revisions**

none

**Online Discussion:**

* none

**Decision:**

* agreed

[**S4-211020**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211020.zip) is agreed.

## 11.7 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)

None

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

WID: [*SP-210378*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGs_92E_Electronic_2021_06/Docs/SP-210378.zip) Feasibility Study on 5G Video Codec Characteristics (FS\_5GVideo)

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| [S4-211022](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211022.zip) | TR26.955: Proposed Editor's Update | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[FS\_5GVideo, 1022, Block A, 19th Aug. 1200CEST] Editor's update on TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;4214278b.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 08:03:19 +0000 |
| [[FS\_5GVideo, 1022, Block A, 19th Aug. 1200CEST] Editor's update on TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;cfeaa1be.2108C&S=) | Fabrice Plante | Wed, 18 Aug 2021 10:35:42 -0700 |
| [[FS\_5GVideo, 1022, Block A, 19th Aug. 1200CEST] Editor's update on TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3915078f.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 19:51:45 +0000 |
| [[Internet][FS\_5GVideo, 1022, Block A, 19th Aug. 1200CEST] Editor's update on TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;165f925d.2108C&S=) | teniou(TeniouGilles) | Thu, 19 Aug 2021 12:21:46 +0000 |

**Decision:**

* Thanks for the discussion.
* The first fix is purely editorial, and Thomas takes the action to fix it in the future version of the Draft TR.
* The second comment on the exact RAP period values should indeed be addressed separately (could even be discussed today if time allows, or via an input contribution)
* This being the document [**S4-211022**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211022.zip) is **agreed** as the basis for further work with the action to fix the typo identified by Apple in the next version.

[**S4-211022**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211022.zip) is agreed.

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| [S4-211187](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211187.zip) | TR26.955 v1.3.0 | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211187**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211187.zip) is presented to the SA4 plenary.

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| [S4-211023](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211023.zip) | [FS\_5G\_Video] Status Update | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[FS\_5GVideo, 1023, Block A, 19th Aug. 1200CEST] Status update](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5c1f544b.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 08:03:28 +0000 |
| [[FS\_5GVideo, 1023, Block A, 19th Aug. 1200CEST] Status update](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f556496d.2108C&S=) | teniou(TeniouGilles) | Thu, 19 Aug 2021 12:24:10 +0000 |

**Decision:**

* No comment was received
* The document [**S4-211023**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211023.zip) is **agreed**.

[**S4-211023**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211023.zip) is agreed.

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| [S4-211024](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211024.zip) | pCR26.955: FullHD Streaming | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 1024, Block A, 19th Aug. 1200CEST] FullHD Streaming](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;23382ac1.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 08:03:39 +0000 |
| [[FS\_5GVideo, 1024, Block A, 19th Aug. 1200CEST] FullHD Streaming](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2bf21a3b.2108C&S=) | Fabrice Plante | Wed, 18 Aug 2021 11:07:59 -0700 |
| [[FS\_5GVideo, 1024, Block A, 19th Aug. 1200CEST] FullHD Streaming](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;75067090.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 19:45:52 +0000 |
| [[FS\_5GVideo, 1024, Block A, 19th Aug. 1200CEST] FullHD Streaming](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8c286ddd.2108D&S=) | Thomas Stockhammer | Mon, 23 Aug 2021 12:09:16 +0000 |
| [[FS\_5GVideo, 1024, Block A, 19th Aug. 1200CEST] FullHD Streaming](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b98d4647.2108D&S=) | Fabrice Plante | Mon, 23 Aug 2021 06:46:16 -0700 |
| [[FS\_5GVideo, 1024, Block A, 19th Aug. 1200CEST] FullHD Streaming](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;317960c0.2108D&S=) | Dmytro Rusanovskyy | Mon, 23 Aug 2021 14:09:52 +0000 |
| [[FS\_5GVideo, 1024, Block A, 19th Aug. 1200CEST] FullHD Streaming](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;14991992.2108D&S=) | Thomas Stockhammer | Mon, 23 Aug 2021 14:11:54 +0000 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211024](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211024.zip)-FullHDr01.docx

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Thomas presents.
* Dave: ffmpeg => HDR Tools
  + Thomas: ok
* Thomas: configs need to be added, also produce sequences and upload

**Decision:**

* Revise based on above comments

[**S4-211024**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211024.zip) is revised to [**S4-211185**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211185.zip).

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| [S4-211185](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211185.zip) | pCR26.955: FullHD Streaming | Qualcomm Incorporated | Thomas Stockhammer |

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Fabrice: Have config, slightly different for HDR.
  + Thomas: ok
  + Dmytro: can we have config file
* Offline discussion on configs.

**Decision:**

* Revise and agree content. Config file will be fixed offline. We will recheck.

[**S4-211185**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211185.zip) is revised to [**S4-211201**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211201.zip).

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| [S4-211201](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211201.zip) | pCR26.955: FullHD Streaming | Qualcomm Incorporated | Thomas Stockhammer |

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| [1201 available (was [FS\_5GVideo, 1024, Block A, 19th Aug. 1200CEST] FullHD Streaming)](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;913c1ded.2108D&S=) | Thomas Stockhammer | Thu, 26 Aug 2021 07:00:46 +0000 |

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Dmytro: sequences still in progress.
  + Thomas: great - positive. Independent of pCR. We will review this in the status documents.

**Decision:**

* Agreed. Sequences will be produced hopefully even this week.

[**S4-211201**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211201.zip) is agreed.

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| [S4-211025](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211025.zip) | pCR26.955: Software Updates | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[FS\_5GVideo, 1025, Block A, 19th Aug. 1200CEST] Software updates](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e2633e53.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 08:03:45 +0000 |
| [[FS\_5GVideo, 1025, Block A, 19th Aug. 1200CEST] Software updates](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2e13c14d.2108C&S=) | teniou(TeniouGilles) | Thu, 19 Aug 2021 12:29:18 +0000 |

**Decision:**

* No comment was received.
* The document [**S4-211025**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211025.zip) is **agreed**.

[**S4-211025**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211025.zip) is agreed.

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| [S4-211026](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211026.zip) | [FS\_5G\_Video] Characterization | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [1026r01: Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f23a6d16.2108D&S=) | Thomas Stockhammer | Mon, 23 Aug 2021 13:05:29 +0000 |
| [1026r01: Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ca1c2654.2108D&S=) | teniou(TeniouGilles) | Mon, 23 Aug 2021 13:24:23 +0000 |
| [1026r01: Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e37fcb2b.2108D&S=) | Fabrice Plante | Mon, 23 Aug 2021 06:40:04 -0700 |

**Presenter: Thomas Stockhammer, Qualcomm**

**Online Discussion:**

* Change 1:
  + Lukasz: Correct to not leave it in the characterization. Moving up is ok, can check details.
  + Alexis: Everything should be 10-bit as agreed, it needs some work
  + Thomas: Will fix by offline discussion.
* Change 2:
  + Alexis: against weighting number of frames
  + Thomas: ok by not weighting, reason was that we use the number of pixels.
  + Rajesh: let’s not weigh, it is not used in JVET.
  + Thomas: explains that we have different length, so we implicitly weight.
  + Gilles: could also be different for 1 hour sequence.
  + Dmytro: averages across sequences
  + Alexis: also min and max can be reported
  + Gilles: should we look at
  + Dave: It is useful to have min and max, encoder manufacturers aim for the best worst quality not for the best quality on average.
  + Thomas: Good discussion, but prefer to close this before we get results
  + Dmytro: Can we do a revision with the comments

**Decision:**

* We revise based on the discussion.

[**S4-211026**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211026.zip) is revised to [**S4-211188**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211188.zip).

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| [S4-211188](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211188.zip) | [FS\_5G\_Video] Characterization | Qualcomm Incorporated | Thomas Stockhammer |

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Rajesh: Can we remove last bullet?
  + Thomas: ok
* Fabrice: please fix SSIM settings
  + Lukasz: will do

**Decision:**

* Revise based on above.

[**S4-211188**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211188.zip) is revised to [**S4-211202**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211202.zip).

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| [S4-211202](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211202.zip) | [FS\_5G\_Video] Characterization | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5Gvideo, 1202, Block A-ext, 25th Aug. 1400CEST] Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;becb5b82.2108D&S=) | teniou(TeniouGilles) | Tue, 24 Aug 2021 10:47:51 +0000 |
| [[FS\_5Gvideo, 1202, Block A-ext, 25th Aug. 1400CEST] Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;94d1ec41.2108D&S=) | Dmytro Rusanovskyy | Tue, 24 Aug 2021 22:37:49 +0000 |
| [[FS\_5Gvideo, 1202, Block A-ext, 25th Aug. 1400CEST] Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;53b8bc9e.2108D&S=) | Thomas Stockhammer | Wed, 25 Aug 2021 22:23:01 +0000 |
| [[FS\_5Gvideo, 1202, Block A-ext, 25th Aug. 1400CEST] Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c43f2acc.2108D&S=) | Fabrice Plante | Wed, 25 Aug 2021 16:13:29 -0700 |
| [[FS\_5Gvideo, 1202, Block A-ext, 25th Aug. 1400CEST] Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;83bd8b98.2108D&S=) | Dmytro Rusanovskyy | Thu, 26 Aug 2021 00:52:03 +0000 |
| [[FS\_5Gvideo, 1202, Block A-ext, 25th Aug. 1400CEST] Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;45cfa1a8.2108D&S=) | Dmytro Rusanovskyy | Thu, 26 Aug 2021 00:56:19 +0000 |
| [[FS\_5Gvideo, 1202, Block A-ext, 25th Aug. 1400CEST] Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8c6b40af.2108D&S=) | Thomas Stockhammer | Thu, 26 Aug 2021 06:10:55 +0000 |
| [[FS\_5Gvideo, 1202, Block A-ext, 25th Aug. 1400CEST] Characterization](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;bda67064.2108D&S=) | Fabrice Plante | Thu, 26 Aug 2021 06:36:38 -0700 |

**Revisions:**

* [S4-211202](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211202.zip)
* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211202](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211202.zip)-Characterization-r02.docx

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Fabrice: Text can be improved - sent by e-mail
  + Thomas: looks good.
  + Gilles does online edits

**Decision:**

* Agreed with online edits: [S4-211202](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211202.zip)
* Will be revised

[**S4-211201**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211201.zip) is revised to [**S4-211320**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211320.zip).

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| [S4-211320](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211320.zip) | [FS\_5G\_Video] Characterization | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211320**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211320.zip) is agreed.

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| [S4-211040](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211040.zip) | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GVideo, 1040, Block A, 19th Aug. 1200CEST] Proposed Workplan](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5c69b564.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 08:03:58 +0000 |
| [[FS\_5GVideo, 1040, Block A, 19th Aug. 1200CEST] Proposed Workplan](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b5c028d4.2108C&S=) | teniou(TeniouGilles) | Thu, 19 Aug 2021 12:30:47 +0000 |

**Decision:**

* No comment was received.
* The document [**S4-211040**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211040.zip) is **agreed**.

[**S4-211040**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211040.zip) is agreed.

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| [S4-211169](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211169.zip) | Report from offline telco on FS\_5GVideo metrics | Ericsson LM | Lukasz Litwic |

**E-mail Discussion:**

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| [[FS\_5GVideo, 1169, Block A, 19th Aug. 1200CEST] report from offline on metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f8f39893.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 08:04:06 +0000 |
| [[FS\_5GVideo, 1169, Block A, 19th Aug. 1200CEST] report from offline on metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ec7846aa.2108C&S=) | teniou(TeniouGilles) | Thu, 19 Aug 2021 12:32:54 +0000 |

**Decision:**

* No comment was received.
* Thank you the detailed information on offline discussion.
* The document [**S4-211169**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211169.zip) is **noted**.

[**S4-211169**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211169.zip) is noted.

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| [S4-211170](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211170.zip) | Test vectors for FS\_5GVideo metrics computation | Ericsson LM | Lukasz Litwic |

**E-mail Discussion:**

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| [[FS\_5GVideo, 1170, Block A, 19th Aug. 1200CEST] test vectors on metrics computation](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6f118109.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 08:04:16 +0000 |
| [[FS\_5GVideo, 1170, Block A, 19th Aug. 1200CEST] test vectors on metrics computation](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2dff1764.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 10:28:53 +0000 |

**Revisions**

none

**Online Presenter: Lukasz Litwic, Ericsson**

**Online Discussion:**

* Thomas: What are the next actions and who does it ?
  + Lukasz: If someone brings new anchors with results, we will need how those have been generated. It would also be documented in the scripts. This allows us to validate the scripts.
* Thomas: What do we do with the existing generated metrics? Do we have to replace those?
  + Lukasz: Yes this may be needed
* Thomas: Are people OK to replace previous metrics and to consider the new scripts as the new reference to work with? In which case, the previous metrics may be deprecated if not matched.
  + Gilles: we do not want to regenerate the anchors
  + Thomas: It is not about the anchors, it is about the metrics. We can produce the metrics without re-encoding.
  + Gilles: if there is a difference, there is a problem.
  + Lukasz: there can be differences in the details, does not invalidate. It is more about reproducibility.
  + Thomas: I am in favour to use the scripts
  + Alexis: There is a benefit to use what we have in terms of scripting. Not reproduce the initial metrics. This is straightforward
  + Dmytro: support of Apple. We can produce anchors, and produce metrics using anchors.
  + Thomas: I can revise the TR to make sure the script is considered in the text as the new “truth”.
* Gilles: “What model for VMAF should we choose?”
  + Alexis: neg is preferred. 2K or 4K is also a decision to make.
  + Gilles: no decision yet.

**Decision:**

* Add this to the PD
* Ask Nils to reproduce these metrics with the script
* Also reproduce the metrics for all anchors

[**S4-211170**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211170.zip) is agreed.

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| [S4-211186](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211186.zip) | [FS\_5G\_Video] Status Update after SA4#115e | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211186**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211186.zip) is sent to SA4 plenary.

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| [S4-211172](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211172.zip) | [FS\_5GVideo] pCR 26.955: Updated EVC Configuration Files | Samsung Electronics Co. Ltd., Qualcomm Inc. | Rajan Joshi |

**E-mail Discussion:**

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| [[FS\_5GVideo, 1172, Block A, 19th Aug. 1200CEST] EVC config files](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8eb2c291.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 08:04:24 +0000 |
| [[FS\_5GVideo, 1172, Block A, 19th Aug. 1200CEST] EVC config files](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;fb10d7af.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 10:31:18 +0000 |

**Revisions**

none

**Online Discussion:**

* Gilles quickly presents
* Thomas: editorial updates needed. Either by source or editor needs freedom.
* Alexis: Intra Period - approximately 1 second? Can we fix for all numbers?
  + Gilles: we can do this as part of offline discussion.
  + Intra Period into spare brackets. maybe we could add "and match the one used by the anchors"?

**Decision:**

* Agreed with editorial modifications.

[**S4-211172**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211172.zip) is agreed.

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| [S4-211203](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211203.zip) | [FS\_5G\_Video] Intra Periods | Qualcomm Incorporated, Apple, Ericsson | Fabrice Plante |

**E-mail Discussion:**

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| [[FS\_5Gvideo, 1203, Block A-ext, 25th Aug. 1400CEST] Intra refresh period](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;54025283.2108D&S=) | teniou(TeniouGilles) | Tue, 24 Aug 2021 10:47:57 +0000 |
| [[FS\_5Gvideo, 1203, Block A-ext, 25th Aug. 1400CEST] Intra refresh period](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3f7b1099.2108D&S=) | teniou(TeniouGilles) | Wed, 25 Aug 2021 20:01:28 +0000 |

**Revisions**

none

**Decision:**

* Agreed but co-signers.

[**S4-211203**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211203.zip) is revised to [**S4-211215**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211215.zip).

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| [S4-211215](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211215.zip) | [FS\_5G\_Video] Intra Periods | Apple, Facebook, Qualcomm Incorporated | Fabrice Plante |

[**S4-211215**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211215.zip) is agreed.

## 11.9 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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| [S4-211027](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211027.zip) | [FS\_XRTraffic] Proposed Workplan Updates | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

none

**Revisions**

none

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Fabrice: Would prefer to not rush this - complex review
  + Thomas: ok we can either shift by 3 month or go directly for approval
  + Fabrice: direct approval maybe initially
  + Thomas: ok
* Gilles: online edits

**Decision:**

* Agree with online edits: https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211027](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211027.zip)-XRTraffic-Work-Plan-v0.9-GT.doc

[**S4-211028**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211028.zip) is revised to [**S4-211209**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211209.zip).

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| [S4-211209](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211209.zip) | [FS\_XRTraffic] Updated Workplan | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211209**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211209.zip) is agreed.

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| [S4-211028](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211028.zip) | [FS\_XRTraffic] Proposed Updated TR26.926 | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

none

**Revisions**

none

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Qi: On test channel, currently we only use PER and PDB. We need some more information. We need to resolve this.
  + Thomas: open to input, check ffs.
  + Qi: Can we check with RAN colleagues for help
  + Thomas: we can do so, more for future work
* Qi: remove RAN in heading
  + Thomas: ok
* Qi: other editorials
  + Indent 23.501 clauses

**Decision:**

* Agreed as basis for further work
* We will review the work plan.

[**S4-211028**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211028.zip) is revised to [**S4-211208**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211208.zip).

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| [S4-211208](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211208.zip) | TR26.926v0.3.0 | Qualcomm Incorporated | Thomas Stockhammer |

**Online Discussion:**

* none

**Decision:**

* agreed

[**S4-211208**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211208.zip) is agreed and presented to SA4 plenary.

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| [S4-211029](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211029.zip) | [FS\_XRTraffic] Remaining Open Issues | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211029**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211029.zip) is noted without presentation.

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| [S4-211210](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211210.zip) | [FS\_XRTraffic] Permanent Document | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211208**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211208.zip) is presented to SA4 plenary for information.

## 11.10 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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| [S4-211030](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211030.zip) | [FS\_5GSTAR] Proposes Updates to TR | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;cef99000.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:57:19 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;da0a5b0f.2108C&S=) | Emmanuel Thomas | Wed, 18 Aug 2021 12:56:41 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;776d1e39.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 13:02:30 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;35e9b8bc.2108C&S=) | Hakju Ryan Lee | Thu, 19 Aug 2021 13:23:40 +0900 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;678995a.2108C&S=) | Thomas Stockhammer | Thu, 19 Aug 2021 05:14:17 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;30b3e8ca.2108C&S=) | Thomas Stockhammer | Thu, 19 Aug 2021 20:07:00 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;6faaefd8.2108C&S=) | Sanchez de la Fuente, Yago | Fri, 20 Aug 2021 09:21:45 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9017e596.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 09:22:58 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;df1d9da2.2108C&S=) | Sanchez de la Fuente, Yago | Fri, 20 Aug 2021 09:27:37 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;40e1a8f.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 09:47:18 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;11c58f26.2108C&S=) | Sanchez de la Fuente, Yago | Fri, 20 Aug 2021 09:56:59 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;38f4e302.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 10:01:39 +0000 |
| [[FS\_5GSTAR, 1030, Block A, 20th Aug. 1200CEST] Updates to TR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;22c34f13.2108C&S=) | Sanchez de la Fuente, Yago | Fri, 20 Aug 2021 10:26:19 +0000 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211030](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211030.zip)r01.zip

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Thomas provides an overview of updates.
* Samsung, Xiaomi, ok
* Yago is also ok based on the discussion in e-mail.

**Decision:**

* Agreed r01.

[**S4-211030**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211030.zip) is revised to [**S4-211189**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211189.zip).

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| [S4-211189](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211189.zip) | [FS\_5GSTAR] Proposes Updates to TR | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211189**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211189.zip) is agreed.

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| [S4-211031](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211031.zip) | [FS\_5GSTAR] Improved user experience for WLAR UE | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1031, Block A, 20th Aug. 1200CEST] Improved UX for WLAR UE](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e5b08cd3.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:57:33 +0000 |
| [[FS\_5GSTAR, 1031, Block A, 20th Aug. 1200CEST] Improved UX for WLAR UE](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d8eb84f0.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 07:37:18 +0000 |
| [[FS\_5GSTAR, 1031, Block A, 20th Aug. 1200CEST] Improved UX for WLAR UE](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7129a5e4.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 07:39:45 +0000 |
| [[FS\_5GSTAR, 1031, Block A, 20th Aug. 1200CEST] Improved UX for WLAR UE](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;a1795697.2108C&S=) | Sanchez de la Fuente, Yago | Fri, 20 Aug 2021 08:26:32 +0000 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211031](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211031.zip)-WLAR-r01.docx

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Thomas presents
  + Detected a wrong intro to second type
* Yago: The fourth bullet point is not needed.
  + Thomas: agree kind of, we can remove or reformulate.
* Naotaka: What about the NAT traversal, which is implied by ICE?
  + Thomas: The IP Relay details are unclear in this document. It may be L2 or L3.
  + Naotaka: understand the current status. The IP details and NAT traversal requirements should be described somewhere.
  + Thomas: propose to add a note that this is ffs.

**Decision:**

* R01 with above comments agreed
* Merged with 1047

[**S4-211031**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211031.zip) is revised to [**S4-211190**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211190.zip).

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| [S4-211190](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211190.zip) | [FS\_5GSTAR] Improved user experience for WLAR UE | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211190**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211190.zip) is agreed.

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| [S4-211032](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211032.zip) | [FS\_5GSTAR] Updates to 5G Media Delivery in STAR | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2559392e.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:57:43 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;46b0ddc3.2108C&S=) | Kyunghun Jung | Wed, 18 Aug 2021 13:35:40 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;888391fe.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 14:35:08 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2dd313e5.2108C&S=) | Kyunghun Jung | Wed, 18 Aug 2021 16:47:48 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;fe57583c.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 18:13:50 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;895fbd6a.2108C&S=) | Kyunghun Jung | Wed, 18 Aug 2021 18:32:43 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d6d5e141.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 19:32:29 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9a5fe2aa.2108C&S=) | Kyunghun Jung | Wed, 18 Aug 2021 20:06:08 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;4d9bd02.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 20:19:27 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f3fac7cd.2108C&S=) | Kyunghun Jung | Wed, 18 Aug 2021 21:16:49 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;a7b789cd.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 21:24:53 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b8595d73.2108C&S=) | Kyunghun Jung | Wed, 18 Aug 2021 21:35:02 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;dcafe1f3.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 21:47:14 +0000 |
| [[FS\_5GSTAR, 1032, Block A, 20th Aug. 1200CEST] Updates to 5G media delivery to STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;a83d3b29.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 07:38:48 +0000 |

**Revisions**

none

**Online Presenter: Gilles Teniou**

**Online Discussion:**

* Figure 4.4.1 needs to be updated as well.
  + Ryan will do in integration as part of editing
  + We will do this in 1071.

**Decision:**

* agreed.

[**S4-211032**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211032.zip) is agreed.

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| [S4-211033](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211033.zip) | [FS\_5GSTAR] KPIs and Metrics | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;60fac40d.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:57:51 +0000 |
| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c4a494c9.2108C&S=) | Sungryeul Rhyu | Thu, 19 Aug 2021 16:09:19 +0900 |
| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;dd4464a2.2108C&S=) | Thomas Stockhammer | Thu, 19 Aug 2021 08:24:08 +0000 |
| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;51fbedd0.2108C&S=) | Sungryeul Rhyu | Thu, 19 Aug 2021 18:13:26 +0900 |
| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7ec1e6bb.2108C&S=) | Sungryeul Rhyu | Thu, 19 Aug 2021 23:47:50 +0900 |
| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c554c6ce.2108C&S=) | Thomas Stockhammer | Thu, 19 Aug 2021 19:50:47 +0000 |
| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8651d015.2108C&S=) | Sungryeul Rhyu | Fri, 20 Aug 2021 12:14:27 +0900 |
| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;27198606.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 04:04:56 +0000 |
| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;76fb7af6.2108C&S=) | Sungryeul Rhyu | Fri, 20 Aug 2021 14:20:16 +0900 |
| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;36e6db12.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 09:15:55 +0000 |
| [[FS\_5GSTAR, 1033, Block A, 20th Aug. 1200CEST] KPI and metrics](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;a1cb2839.2108C&S=) | Hakju Ryan Lee | Fri, 20 Aug 2021 19:32:19 +0900 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211033](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211033.zip)-KPIsr01.docx

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Thomas: propose to add clause 4.6.3 with latencies as a place holder
  + OK
* Ryan: propose to remove perception to render to photon
  + OK

**Decision:**

* Revision agreed with comments

[**S4-211033**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211033.zip) is revised to [**S4-211192**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211192.zip)

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| [S4-211192](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211192.zip) | [FS\_5GSTAR] KPIs and Metrics | Qualcomm Incorporated, Samsung | Thomas Stockhammer |

[**S4-211192**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211192.zip) is agreed.

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| [S4-211034](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211034.zip) | [FS\_5GSTAR] Some Initial Conclusions | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1034, Block A, 20th Aug. 1200CEST] Some Initial conclusions](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8ecd1af9.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:58:05 +0000 |
| [[FS\_5GSTAR, 1034, Block A, 20th Aug. 1200CEST] Some Initial conclusions](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9060fa74.2108C&S=) | Stephane Ragot | Wed, 18 Aug 2021 12:53:11 +0000 |
| [[FS\_5GSTAR, 1034, Block A, 20th Aug. 1200CEST] Some Initial conclusions](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b0c52722.2108C&S=) | Thomas Stockhammer | Wed, 18 Aug 2021 13:01:57 +0000 |
| [[FS\_5GSTAR, 1034, Block A, 20th Aug. 1200CEST] Some Initial conclusions](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;40740f12.2108C&S=) | Hakju Ryan Lee | Thu, 19 Aug 2021 15:18:59 +0900 |
| [[FS\_5GSTAR, 1034, Block A, 20th Aug. 1200CEST] Some Initial conclusions](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;97fb7c7.2108C&S=) | Thomas Stockhammer | Thu, 19 Aug 2021 06:30:16 +0000 |
| [[FS\_5GSTAR, 1034, Block A, 20th Aug. 1200CEST] Some Initial conclusions](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b00744b.2108C&S=) | Thomas Stockhammer | Thu, 19 Aug 2021 20:17:48 +0000 |
| [[FS\_5GSTAR, 1034, Block A, 20th Aug. 1200CEST] Some Initial conclusions](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7a4ed82c.2108C&S=) | Stephane Ragot | Thu, 19 Aug 2021 21:46:13 +0000 |
| [[FS\_5GSTAR, 1034, Block A, 20th Aug. 1200CEST] Some Initial conclusions](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;aa8c38a3.2108C&S=) | Thomas Stockhammer | Thu, 19 Aug 2021 21:51:30 +0000 |
| [[FS\_5GSTAR, 1034, Block A, 20th Aug. 1200CEST] Some Initial conclusions](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;57a570e0.2108C&S=) | Stephane Ragot | Thu, 19 Aug 2021 21:53:17 +0000 |
| [[FS\_5GSTAR, 1034, Block A, 20th Aug. 1200CEST] Some Initial conclusions](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d00e6a3e.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 04:20:02 +0000 |

**Revisions**

* [S4-211034](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211034.zip)
* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211034](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211034.zip)-Conclusions-r02.docx

**Online Presenter: Thomas Stockhammer (Qualcomm)**

**Online Discussion:**

* Naotaka: What do you mean with independent of MTSI?
  + Thomas: Believe we need to enable real-time communication without using MTSI. Parts of MTSI can be used, but not the full service
* Stephane: Would like to understand better 5G-MSE is?
  + Thomas: not clear what I should say, but maybe referring to device functions.
  + Stephane: Does the service-based architecture in 3GPP address these functions?
  + Thomas: Appreciate an input
  + Stephan: challenge accepted
* Bo: How can you find the other party?
  + Thomas: this is clearly a good question, but to some extent we believe that parts of this are part of the app.
  + Bo: understand, not really against
  + Nik: just to be clear that decomposition allows different deployment models. The usage and integration of the components is up to app developer.
* Ryan: would like to call AR/MR Profile
  + Thomas: prefer Immersive as mesh and point cloud is outside
* Gilles summarizes
  + 8.2 in square brackets based on comments
  + Some open questions on 8.3
  + No comments on 8.4
  + Open question on 8.5 - whether it is immersive
* Stephane: would like to see square brackets around 8.2
* Naotaka: Where to add the immersive media profile for conversational service?
  + Thomas: not yet comprehensively covered, may need some extensions

**Decision:**

* Revision agreed under square brackets - comments expected for next meeting.
* Without comments, square brackets are removed at the next meeting.

[**S4-211034**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211034.zip) is revised to [**S4-211212**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211212.zip)

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| [S4-211212](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211212.zip) | [FS\_5GSTAR] Some Initial Conclusions | Qualcomm Incorporated | Thomas Stockhammer |

[**S4-211212**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211212.zip)is agreed.

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| [S4-211047](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211047.zip) | Coordinating operation of Uu and Wirelss Connectivity in 5G WireLess Tethered AR (WLAR) UE | Facebook, Qualcomm Incorporated, Samsung Electronics Co. Ltd. | Kyunghun Jung |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1047, Block A, 20th Aug. 1200CEST] Coordinating operation of Uu and Wirelss Connectivity in 5G WireLess Tethered AR (WLAR) UE](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;de69e8e1.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:58:15 +0000 |
| [[FS\_5GSTAR, 1047, Block A, 20th Aug. 1200CEST] Coordinating operation of Uu and Wirelss Connectivity in 5G WireLess Tethered AR (WLAR) UE](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;a866b5b7.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 07:40:34 +0000 |
| [[FS\_5GSTAR, 1047, Block A, 20th Aug. 1200CEST] Coordinating operation of Uu and Wirelss Connectivity in 5G WireLess Tethered AR (WLAR) UE](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9780ea0c.2108C&S=) | Hakju Ryan Lee | Fri, 20 Aug 2021 20:32:56 +0900 |

**Revisions**

none

**Online Presenter: Gilles Teniou**

**Online Discussion:**

* Ryan: Ok, but this applies to 3b as defined in 1032.
* Naotaka: Reformulate that these are not services and change to latency requirements.
  + We do some online modifications.

**Decision:**

* Agreed with in online edits

[**S4-211047**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211047.zip) is merged to [**S4-211090**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211090.zip).

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| [S4-211071](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211071.zip) | [FS\_5GSTAR] Media Decoders management and coordination | Xiaomi Communications | Emmanuel Thomas |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1071, Block A, 20th Aug. 1200CEST] Media Decoders management](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;da7c1851.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:58:28 +0000 |
| [[FS\_5GSTAR, 1071, Block A, 20th Aug. 1200CEST] Media Decoders management](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c5de51fc.2108C&S=) | Hakju Ryan Lee | Thu, 19 Aug 2021 13:36:06 +0900 |
| [[FS\_5GSTAR, 1071, Block A, 20th Aug. 1200CEST] Media Decoders management](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;20e346d3.2108C&S=) | Emmanuel Thomas | Thu, 19 Aug 2021 08:30:14 +0000 |
| [[FS\_5GSTAR, 1071, Block A, 20th Aug. 1200CEST] Media Decoders management](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;16f94198.2108C&S=) | Hakju Ryan Lee | Thu, 19 Aug 2021 22:17:05 +0900 |
| [[FS\_5GSTAR, 1071, Block A, 20th Aug. 1200CEST] Media Decoders management](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7fda4945.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 05:09:37 +0000 |
| [[FS\_5GSTAR, 1071, Block A, 20th Aug. 1200CEST] Media Decoders management](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;47fbdbf8.2108C&S=) | Emmanuel Thomas | Fri, 20 Aug 2021 09:02:06 +0000 |
| [[FS\_5GSTAR, 1071, Block A, 20th Aug. 1200CEST] Media Decoders management](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f8c321ea.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 09:08:23 +0000 |
| [[FS\_5GSTAR, 1071, Block A, 20th Aug. 1200CEST] Media Decoders management](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;88a8eea2.2108C&S=) | Emmanuel Thomas | Fri, 20 Aug 2021 12:44:21 +0000 |
| [[FS\_5GSTAR, 1071, Block A, 20th Aug. 1200CEST] Media Decoders management](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3387cfc7.2108D&S=) | Emmanuel Thomas | Mon, 23 Aug 2021 10:40:38 +0000 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211071](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211071.zip)%20%5BFS\_5GSTAR%5D%20Media%20Decoders%20management%20and%20coordination-QC-Xiaomi.docx

**Online Presenter: Emmanuel Thomas**

**Online Discussion:**

* Thomas: rather not update the figure, but address this in 4.4.6
* Ryan: MPEG-I VDI could be added to 4.5.6?
  + Emmanuel: Done
* We need to update the Figure in 4.4.1

**Decision:**

* Revision agreed with update of Figure.

[**S4-211071**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211071.zip) is revised to [**S4-211191**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211191.zip)**.**

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| [S4-211191](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211191.zip) | [FS\_5GSTAR] Media Decoders management and coordination | Xiaomi Communications, Qualcomm Incorporated | Emmanuel Thomas |

**Presenter: Emmanuel Thomas**

**Online Discussion:**

* No comments

**Decision:**

* Agreed and will be added to TR

[**S4-211191**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211191.zip) is agreed**.**

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| [S4-211072](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211072.zip) | [FS\_5GSTAR] Editorial improvements | Xiaomi Communications | Emmanuel Thomas |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1072, Block A, 20th Aug. 1200CEST] Editorial improvements](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;1d82ccee.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:58:39 +0000 |
| [[FS\_5GSTAR, 1072, Block A, 20th Aug. 1200CEST] Editorial improvements](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;acfa7a5b.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 07:49:30 +0000 |
| [[FS\_5GSTAR, 1072, Block A, 20th Aug. 1200CEST] Editorial improvements](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e270a2af.2108C&S=) | Emmanuel Thomas | Fri, 20 Aug 2021 12:59:50 +0000 |
| [[FS\_5GSTAR, 1072, Block A, 20th Aug. 1200CEST] Editorial improvements](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f97e6927.2108D&S=) | Emmanuel Thomas | Mon, 23 Aug 2021 10:34:04 +0000 |

**Revisions**

none

**Online Presenter: Emmanuel Thomas (Xiaomi)**

**Online Discussion:**

* Ok on comment 1 on scene manager
* Thomas: Can we explain the figure a bit better
  + Emmanuel does verbally
  + Thomas please add this description

**Decision:**

* Revise to explain better.

[**S4-211072**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211072.zip) is revised to [**S4-211193**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211193.zip).

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| [S4-211193](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211193.zip) | [FS\_5GSTAR] Editorial improvements | Xiaomi Communications | Emmanuel Thomas |

**Online Presenter: Emmanuel Thomas (Xiaomi)**

**Online Discussion:**

* Ryan: Can we use figure?
  + Emmanuel: not sure, direct copy from web page
  + Ryan: prefer reference
  + Emmanuel: ok
* Imed: Is alignment the correct term? Is it not called depth registration?
  + Emmanuel: will check - ok
* Gilles: please check any additions for Trademarks
  + Emmanuel: will do

**Decision:**

* Agree with comments above
* Editor will implement the above comments

[**S4-211193**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211193.zip) is agreed.

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| [S4-211073](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211073.zip) | [FS\_5GSTAR] Proposed text for general | Samsung Electronics Czech | Sungryeul Rhyu |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1073, Block A, 20th Aug. 1200CEST] Proposed text for general clause](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c77329ac.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:58:49 +0000 |
| [[FS\_5GSTAR, 1073, Block A, 20th Aug. 1200CEST] Proposed text for general clause](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;df6c14db.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 07:57:18 +0000 |
| [[FS\_5GSTAR, 1073, Block A, 20th Aug. 1200CEST] Proposed text for general clause](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b8b2c608.2108C&S=) | Hakju Ryan Lee | Fri, 20 Aug 2021 19:52:09 +0900 |
| [[FS\_5GSTAR, 1073, Block A, 20th Aug. 1200CEST] Proposed text for general clause](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;cf981d13.2108D&S=) | Sungryeul Rhyu | Mon, 23 Aug 2021 22:02:46 +0900 |

**Revisions**

none

**Online Presenter:** Sungryeul Rhyu (Samsung)

**Online Discussion:**

* SR: Follows the editor’s note
  + Thomas: This is the first clause, so I am a bit uninspired by this. This is a mix of everything without defining nothing or only half. It would be good to structure this a bit better.
  + Gilles: agree for better structuring. Would be happy to help
* Agreed to revise

**Decision:**

* revision

[**S4-211073**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211073.zip) is revised to [**S4-211194**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211194.zip).

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| [S4-211194](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211194.zip) | [FS\_5GSTAR] Proposed text for general | Samsung Electronics Czech | Sungryeul Rhyu |

**Online Presenter:** Sungryeul Rhyu (Samsung)

**Online Discussion:**

* No comments

**Decision:**

* agreed

[**S4-211194**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211194.zip) is agreed.

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| [S4-211074](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211074.zip) | [FS\_5GSTAR] Ch.7 Devices form-factor related Issues | Samsung Electronics Co., Ltd | Sungryeul Rhyu |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1074, Block A, 20th Aug. 1200CEST] Ch.7 Devices form-factor related Issues](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2cdf1840.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:59:01 +0000 |
| [[FS\_5GSTAR, 1074, Block A, 20th Aug. 1200CEST] Ch.7 Devices form-factor related Issues](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e8f2ea37.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 09:55:23 +0000 |
| [[FS\_5GSTAR, 1074, Block A, 20th Aug. 1200CEST] Ch.7 Devices form-factor related Issues](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c3c3c8a8.2108C&S=) | Sungryeul Rhyu | Fri, 20 Aug 2021 18:59:30 +0900 |
| [[FS\_5GSTAR, 1074, Block A, 20th Aug. 1200CEST] Ch.7 Devices form-factor related Issues](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;93eaecf.2108D&S=) | Sungryeul Rhyu | Mon, 23 Aug 2021 22:04:56 +0900 |

**Revisions**

none

**Online Discussion:**

* Gilles summarizes the comments
* Ryan: not really need to add this to clause 4.
* Thomas: Unclear what this is for. Would be good to know, because then we can provide relevant information. Relates to KPIs in clause 4.6 as well
  + Ryan: prefer offline.
  + Gilles: should be descriptive

**Decision:**

* More offline discussion

[**S4-211074**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211074.zip) is revised to [**S4-211195**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211195.zip).

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| [S4-211195](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211195.zip) | [FS\_5GSTAR] Ch.7 Devices form-factor related Issues | Samsung Electronics Co., Ltd | Sungryeul Rhyu |

**Online Presenter:** Sungryeul Rhyu (Samsung)

**Online Discussion:**

* Gilles: What does “color” mean?
  + Thomas: relates to table, which speaks about representation independent of viewport
  + Gilles: add brackets around colours

**Decision:**

* Agreed with brackets

[**S4-211195**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211195.zip) is agreed.

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| [S4-211075](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211075.zip) | [FS\_5GSTAR] Proposed update on cluase 4.2 | Samsung Electronics Czech | Sungryeul Rhyu |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1075, Block A, 20th Aug. 1200CEST] Updates to clause 4.2](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;eca7f8fa.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:59:15 +0000 |
| [[FS\_5GSTAR, 1075, Block A, 20th Aug. 1200CEST] Updates to clause 4.2](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;4a460fe.2108C&S=) | Ahsan, Saba (Nokia - FI/Espoo) | Thu, 19 Aug 2021 17:51:26 +0000 |
| [[FS\_5GSTAR, 1075, Block A, 20th Aug. 1200CEST] Updates to clause 4.2](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f4d91853.2108C&S=) | Sungryeul Rhyu | Fri, 20 Aug 2021 09:12:51 +0900 |
| [[FS\_5GSTAR, 1075, Block A, 20th Aug. 1200CEST] Updates to clause 4.2](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b4f5bd42.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 09:19:17 +0000 |
| [[FS\_5GSTAR, 1075, Block A, 20th Aug. 1200CEST] Updates to clause 4.2](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;86dc09.2108C&S=) | Sungryeul Rhyu | Fri, 20 Aug 2021 18:51:45 +0900 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211075](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211075.zip)r01.docx

**Online Presenter: SR (Samsung)**

**Online Discussion:**

* Ok with revision.

**Decision:**

* Agree with revision. Editor is asked to carefully combine.

[**S4-211075**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211075.zip) is revised to [**S4-211196**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211196.zip).

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| [S4-211196](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211196.zip) | [FS\_5GSTAR] Proposed update on cluase 4.2 | Samsung Electronics Czech | Sungryeul Rhyu |

[**S4-211196**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211196.zip) is agreed.

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| [S4-211081](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211081.zip) | RTC and OTT QoS support in 5G-STAR | QUALCOMM Europe Inc. - Italy | Imed Bouazizi |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d54461d2.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:59:24 +0000 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c749a4a9.2108C&S=) | Stephane Ragot | Wed, 18 Aug 2021 13:15:17 +0000 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;3bf3ca56.2108C&S=) | Imed Bouazizi | Wed, 18 Aug 2021 17:47:09 +0000 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;798b14a0.2108C&S=) | Hyun-Koo Yang | Thu, 19 Aug 2021 15:31:56 +0900 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f20b6dd1.2108C&S=) | Stephane Ragot | Thu, 19 Aug 2021 08:38:44 +0000 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d98b60f7.2108C&S=) | Imed Bouazizi | Thu, 19 Aug 2021 13:31:02 +0000 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;90905de1.2108D&S=) | Imed Bouazizi | Mon, 23 Aug 2021 14:23:55 +0000 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9746e6ad.2108D&S=) | Imed Bouazizi | Tue, 24 Aug 2021 04:52:59 +0000 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;12d75c45.2108D&S=) | Naotaka Morita | Tue, 24 Aug 2021 10:11:59 +0100 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;17cdb49c.2108D&S=) | Imed Bouazizi | Tue, 24 Aug 2021 15:01:01 +0000 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;cb4f6f87.2108D&S=) | Naotaka Morita | Tue, 24 Aug 2021 18:00:09 +0100 |
| [[FS\_5GSTAR, 1081, Block A, 20th Aug. 1200CEST] RTC and OTT QoS support in 5G-STAR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9bc10fa0.2108D&S=) | Imed Bouazizi | Thu, 26 Aug 2021 14:09:53 +0000 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211081](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211081.zip)\_webrtc\_and\_qos\_r01.docx
* [S4-211081](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211081.zip)
* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211081](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211081.zip)\_webrtc\_and\_qos\_r03.docx

**Online Presenter: Imed Bouazizi (Qualcomm)**

**Online Discussion:**

* Imed presents r03.
* Hyunkoo: there is still a reference to negotiation procedure. Should be removed.
  + Imed: ok
* Naotaka: send additional [comments](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;12d75c45.2108D&S=) on QOS integration. Would like reply?
  + Imed: ok, will do
  + Naotaka: otherwise ok
  + Longer discussion on the requirements on NAT traversal - will be taken offline
  + More details are expected for the upcoming meeting

**Decision:**

* R03 agreed with above comments

[**S4-211081**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211081.zip) is revised to [**S4-211213**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211213.zip).

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| [S4-211213](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211213.zip) | RTC and OTT QoS support in 5G-STAR | QUALCOMM Europe Inc. - Italy | Imed Bouazizi |

[**S4-211213**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211213.zip) is agreed.

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| [S4-211083](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211083.zip) | Proposed an Instantiation to DCMTSI Architecture for AR two-party calls | HUAWEI TECHNOLOGIES Co. Ltd. | Yan Liu |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;41089cea.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:59:32 +0000 |
| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;45a22609.2108C&S=) | Imed Bouazizi | Thu, 19 Aug 2021 20:27:23 +0000 |
| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b8b46773.2108C&S=) | Liuyan (Scarlett) | Fri, 20 Aug 2021 09:30:06 +0000 |
| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b954cb1a.2108D&S=) | Liuyan (Scarlett) | Mon, 23 Aug 2021 08:06:53 +0000 |
| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7f95d7f.2108D&S=) | Liuyan (Scarlett) | Tue, 24 Aug 2021 02:46:48 +0000 |
| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;88e6909c.2108D&S=) | Imed Bouazizi | Wed, 25 Aug 2021 19:37:13 +0000 |
| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;7d96e2b6.2108D&S=) | Liuyan (Scarlett) | Wed, 25 Aug 2021 20:33:11 +0000 |
| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;1f874735.2108D&S=) | Liuyan (Scarlett) | Thu, 26 Aug 2021 02:46:46 +0000 |
| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8d9c165d.2108D&S=) | Hakju Ryan Lee | Thu, 26 Aug 2021 15:17:25 +0900 |
| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;de1b3c8c.2108D&S=) | Liuyan (Scarlett) | Thu, 26 Aug 2021 07:28:36 +0000 |
| [[FS\_5GSTAR, 1083, Block A, 20th Aug. 1200CEST] instantiation to DCMTSI Architectures for AR two-party calls](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;290d46f9.2108D&S=) | Liuyan (Scarlett) | Thu, 26 Aug 2021 14:34:26 +0000 |

**Revisions**

* [S4-211083](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211083.zip)
* [S4-211083](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211083.zip)
* [S4-211083](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211083.zip)
* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211083](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211083.zip)r05.zip

**Online Discussion:**

* Imed: Why does all immersive media go to DCMTSI? Efforts - new payload formats, synchronization, etc are open, also security. Would like to limit to bootstrap channel, not for data distribution.
  + Yan: Security defined in IETF
  + Imed: not about upload. It not as simple, or allowed. Need to go app store. It is not realizable. Would be better to share the entry point. Transport of media through DTMSI is not ok.
* Bo: You say the data channel is not possible for pose. How then?
  + Imed: payload format, new or existing re-use. I am saying it would need lots of work. We can study.
* Update expected in r03.
* Yan presents r05
* Imed: thank you - did you change media over DCMTSI and provide a relaxation?
  + Yan: according to MTSI, all data can go through DCMTSI
  + Imed: still do not understand why DCMTSI
  + Yan: only pose data through DCMTSI
  + Imed: we do not believe we need this, it should not be in the stage-2. Limiting AR media to DCMTSI delivery is too limiting.
  + Yan: Not bootstrap data channel, other channel
  + Imed: add a note that additional media may be delivered other then using the DCMTSI.
* Gilles: does online drafting
  + Imed: good for now.
  + Yan: ok
* Gilles: please replace can with may

**Decision:**

* We agree with online edits: [S4-211083](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211083.zip)
* revised

[**S4-211083**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211083.zip) is revised to [**S4-211321**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211321.zip).

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| [S4-211321](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211321.zip) | Proposed an Instantiation to DCMTSI Architecture for AR two-party calls | HUAWEI TECHNOLOGIES Co. Ltd. | Yan Liu |

[**S4-211321**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211321.zip) is agreed.

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| [S4-211120](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211120.zip) | [5GSTAR] Updated Work Plan | Samsung Research America | Hakju Ryan Lee |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1120, Block A, 20th Aug. 1200CEST] Updated Workplan](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9a059b3d.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:59:44 +0000 |
| [[FS\_5GSTAR, 1120, Block A, 20th Aug. 1200CEST] Updated Workplan](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;21c0dd57.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 08:04:30 +0000 |
| [[FS\_5GSTAR, 1120, Block A, 20th Aug. 1200CEST] Updated Workplan](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c46aed3f.2108C&S=) | Hakju Ryan Lee | Fri, 20 Aug 2021 19:44:27 +0900 |

**Revisions**

none

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

**Online Discussion:**

* none

**Decision:**

* agreed

[**S4-211120**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211120.zip) is agreed.

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| [S4-211121](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211121.zip) | [FS\_5GSTAR] Updates on clause 6 | Samsung Research America | Hakju Ryan Lee |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1121, Block A, 20th Aug. 1200CEST] updates on clause 6](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f3895c60.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 10:59:54 +0000 |
| [[FS\_5GSTAR, 1121, Block A, 20th Aug. 1200CEST] updates on clause 6](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e96ee00f.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 09:10:55 +0000 |
| [[FS\_5GSTAR, 1121, Block A, 20th Aug. 1200CEST] updates on clause 6](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;e1cf68a0.2108C&S=) | Hakju Ryan Lee | Fri, 20 Aug 2021 19:38:07 +0900 |
| [[FS\_5GSTAR, 1121, Block A, 20th Aug. 1200CEST] updates on clause 6](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;96b0c4ed.2108D&S=) | Hakju Ryan Lee | Wed, 25 Aug 2021 15:52:58 +0900 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211121](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211121.zip)r01.docx

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

**Online Discussion:**

* Ryan proposes to move this to offline.
* After offline discussion is created
* Presentation of r01 => agreed

**Decision:**

* R01 is agreed.

[**S4-211121**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211121.zip) is revised to [**S4-211214**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211214.zip).

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| [S4-211214](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211214.zip) | [FS\_5GSTAR] Updates on clause 6 | Samsung Research America | Hakju Ryan Lee |

[**S4-211214**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211214.zip)is agreed

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| [S4-211122](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211122.zip) | [FS\_5GSTAR] EDGAR-based media streaming update | Tencent | Iraj Sodagar |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1122, Block A, 20th Aug. 1200CEST] EDGAR-based media streaming update](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5bad7f91.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 11:00:03 +0000 |
| [[FS\_5GSTAR, 1122, Block A, 20th Aug. 1200CEST] EDGAR-based media streaming update](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;fa741b9c.2108C&S=) | Hakju Ryan Lee | Fri, 20 Aug 2021 15:40:01 +0900 |
| [[FS\_5GSTAR, 1122, Block A, 20th Aug. 1200CEST] EDGAR-based media streaming update](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9693ec02.2108C&S=) | Iraj Sodagar | Fri, 20 Aug 2021 06:59:00 +0000 |
| [[FS\_5GSTAR, 1122, Block A, 20th Aug. 1200CEST] EDGAR-based media streaming update](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;16d5e70f.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 09:27:35 +0000 |
| [[FS\_5GSTAR, 1122, Block A, 20th Aug. 1200CEST] EDGAR-based media streaming update](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;69bfe903.2108C&S=) | Iraj Sodagar | Fri, 20 Aug 2021 14:05:49 +0000 |
| [[FS\_5GSTAR, 1122, Block A, 20th Aug. 1200CEST] EDGAR-based media streaming update](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;14280f40.2108C&S=) | Emmanuel Thomas | Fri, 20 Aug 2021 14:13:30 +0000 |
| [[FS\_5GSTAR, 1122, Block A, 20th Aug. 1200CEST] EDGAR-based media streaming update](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;eb7863d2.2108D&S=) | Iraj Sodagar | Mon, 23 Aug 2021 04:46:34 +0000 |

**Revisions**

none

**Online Discussion:**

* Ryan proposes to move this to offline.

**Decision:**

* Based on offline, it is merged to 1211.

[**S4-211122**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211122.zip) is merged to [**S4-211211**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211211.zip).

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| [S4-211124](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211124.zip) | [FS\_5GSTAR] Procedures and call flows for interactive immersive services | Samsung R&D Institute UK | Eric Yip |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1124, Block A, 20th Aug. 1200CEST] Procedures and call flows for interactive immersive services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;30f4c821.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 11:00:15 +0000 |
| [[FS\_5GSTAR, 1124, Block A, 20th Aug. 1200CEST] Procedures and call flows for interactive immersive services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b779b68e.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 08:14:51 +0000 |
| [[FS\_5GSTAR, 1124, Block A, 20th Aug. 1200CEST] Procedures and call flows for interactive immersive services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c108e098.2108C&S=) | Eric Yip | Fri, 20 Aug 2021 18:51:27 +0900 |

**Revisions**

none

**Online Discussion:**

* Ryan proposes to move this to offline.

**Decision:**

* Based on offline, it is merged to 1211.

[**S4-211124**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211124.zip) is merged to [**S4-211211**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211211.zip).

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| [S4-211125](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211125.zip) | [FS\_5GSTAR] Procedures and call flows for 5G cognitive immersive services | Samsung R&D Institute UK | Eric Yip |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1125, Block A, 20th Aug. 1200CEST] Procedures and call flows for 5G cognitive immersive services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;1a19491e.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 11:00:23 +0000 |
| [[FS\_5GSTAR, 1125, Block A, 20th Aug. 1200CEST] Procedures and call flows for 5G cognitive immersive services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5aba10d1.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 08:20:16 +0000 |
| [[FS\_5GSTAR, 1125, Block A, 20th Aug. 1200CEST] Procedures and call flows for 5G cognitive immersive services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8a65a89b.2108C&S=) | Ahsan, Saba (Nokia - FI/Espoo) | Fri, 20 Aug 2021 08:54:46 +0000 |
| [[FS\_5GSTAR, 1125, Block A, 20th Aug. 1200CEST] Procedures and call flows for 5G cognitive immersive services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;a9c19dd6.2108C&S=) | Eric Yip | Fri, 20 Aug 2021 18:57:04 +0900 |
| [[FS\_5GSTAR, 1125, Block A, 20th Aug. 1200CEST] Procedures and call flows for 5G cognitive immersive services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8a4d6a54.2108C&S=) | Eric Yip | Fri, 20 Aug 2021 19:12:20 +0900 |
| [[FS\_5GSTAR, 1125, Block A, 20th Aug. 1200CEST] Procedures and call flows for 5G cognitive immersive services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;66151a50.2108C&S=) | Ahsan, Saba (Nokia - FI/Espoo) | Fri, 20 Aug 2021 10:44:08 +0000 |
| [[FS\_5GSTAR, 1125, Block A, 20th Aug. 1200CEST] Procedures and call flows for 5G cognitive immersive services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;b8c5dc48.2108C&S=) | Eric Yip | Fri, 20 Aug 2021 19:52:57 +0900 |

**Revisions**

none

**Online Discussion:**

* Ryan proposes to move this to offline.

**Decision:**

* Based on offline, it is merged to 1211.

[**S4-211125**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211125.zip) is merged to [**S4-211211**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211211.zip).

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| [S4-211211](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211211.zip) | [FS\_5GSTAR] Clause 6.2, 6.3, 6.4 procedures and call flows | Samsung Electronics Co., Ltd., Tencent, Qualcomm Incorporated, Nokia Corporation | Eric Yip |

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| [FS\_5GSTAR, 1211 available in Inbox](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d7688a55.2108D&S=) | Eric Yip | Thu, 26 Aug 2021 08:15:16 +0900 |

**Online Presenter: Eric Yip**

**Online Discussion:**

* Thomas: can we check if we can implement Fig 4.3-1 still.
  + Gilles: yes, can part of editing.

**Decision:**

* agreed.

[**S4-211211**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211211.zip)is agreed.

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| [S4-211140](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211140.zip) | Use cases for conversational services | Samsung Electronics Co., Ltd. | Hyun-Koo Yang |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1140, Block A, 20th Aug. 1200CEST] Use cases for conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;cff584a2.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 11:00:36 +0000 |
| [[FS\_5GSTAR, 1140, Block A, 20th Aug. 1200CEST] Use cases for conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;eff12cc9.2108C&S=) | Ali El Essaili | Thu, 19 Aug 2021 08:59:49 +0000 |
| [[FS\_5GSTAR, 1140, Block A, 20th Aug. 1200CEST] Use cases for conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ef262c60.2108C&S=) | Hyun-Koo Yang | Thu, 19 Aug 2021 22:04:00 +0900 |
| [[FS\_5GSTAR, 1140, Block A, 20th Aug. 1200CEST] Use cases for conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9d3124.2108C&S=) | Hyun-Koo Yang | Fri, 20 Aug 2021 21:00:20 +0900 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211140](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211140.zip)r01.docx

**Online Discussion:**

* No comments on revision

**Decision:**

* Agree on revision

[**S4-211140**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211140.zip) is revised to [**S4-211198**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211198.zip)**.**

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| [S4-211198](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211198.zip) | Use cases for conversational services | Samsung Electronics Co., Ltd. | Hyun-Koo Yang |

[**S4-211198**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211198.zip) is agreed**.**

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| [S4-211159](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211159.zip) | pCR AR two-party conversational services | Ericsson LM | Bo Burman |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1159, Block A, 20th Aug. 1200CEST] pCR AR two-party conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2b364f9a.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 11:00:45 +0000 |
| [[FS\_5GSTAR, 1159, Block A, 20th Aug. 1200CEST] pCR AR two-party conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;2742b32d.2108C&S=) | Hakju Ryan Lee | Thu, 19 Aug 2021 13:45:24 +0900 |
| [[FS\_5GSTAR, 1159, Block A, 20th Aug. 1200CEST] pCR AR two-party conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;4aca5c1c.2108C&S=) | Ali El Essaili | Thu, 19 Aug 2021 07:48:08 +0000 |
| [[FS\_5GSTAR, 1159, Block A, 20th Aug. 1200CEST] pCR AR two-party conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;5bc77786.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 09:45:06 +0000 |
| [[FS\_5GSTAR, 1159, Block A, 20th Aug. 1200CEST] pCR AR two-party conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ec12d39b.2108C&S=) | Ali El Essaili | Fri, 20 Aug 2021 09:51:51 +0000 |
| [[FS\_5GSTAR, 1159, Block A, 20th Aug. 1200CEST] pCR AR two-party conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;cb01e8b3.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 09:59:48 +0000 |
| [[FS\_5GSTAR, 1159, Block A, 20th Aug. 1200CEST] pCR AR two-party conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ed448e9d.2108C&S=) | Ali El Essaili | Fri, 20 Aug 2021 10:05:52 +0000 |
| [[FS\_5GSTAR, 1159, Block A, 20th Aug. 1200CEST] pCR AR two-party conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;def178b7.2108C&S=) | Ali El Essaili | Fri, 20 Aug 2021 15:00:19 +0000 |
| [[FS\_5GSTAR, 1159, Block A, 20th Aug. 1200CEST] pCR AR two-party conversational services](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;9968e412.2108D&S=) | Ali El Essaili | Mon, 23 Aug 2021 07:24:42 +0000 |

**Revisions**

* [S4-211159](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211159.zip)
* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/Rev2%20[S4-211159](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211159.zip)%20pCR%20AR%20two-party%20calls%20conversational%20services.docx

**Online Discussion:**

* No comments

**Decision:**

* Revision is agreed

[**S4-211159**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211159.zip) is revised to [**S4-211199**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211199.zip)**.**

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| [S4-211199](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211199.zip) | pCR AR two-party conversational services | Ericsson LM | Bo Burman |

[**S4-211199**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211199.zip) is agreed**.**

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| [S4-211171](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211171.zip) | Background on MPEG Standards for Encapsulation and Signalling of Volumetric Media | InterDigital Communications | Ahmed Hamza |

**E-mail Discussion:**

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| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;cc7d2c26.2108C&S=) | teniou(TeniouGilles) | Wed, 18 Aug 2021 11:00:56 +0000 |
| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;150b5994.2108C&S=) | Hakju Ryan Lee | Thu, 19 Aug 2021 14:02:19 +0900 |
| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;d9d7febc.2108C&S=) | Ahmed Hamza | Thu, 19 Aug 2021 14:41:49 +0000 |
| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;dc5880e5.2108C&S=) | Srinivas Gudumasu | Thu, 19 Aug 2021 16:19:26 +0000 |
| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f4737e82.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 04:38:55 +0000 |
| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;557d9e1d.2108C&S=) | Srinivas Gudumasu | Fri, 20 Aug 2021 12:26:32 +0000 |
| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;ef55c7ff.2108C&S=) | Thomas Stockhammer | Fri, 20 Aug 2021 12:33:42 +0000 |
| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;c082d29e.2108C&S=) | Ahmed Hamza | Sat, 21 Aug 2021 03:16:47 +0000 |
| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;41fff0f3.2108D&S=) | Thomas Stockhammer | Mon, 23 Aug 2021 06:38:02 +0000 |
| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;8ccc8158.2108D&S=) | Jérome ROYAN | Mon, 23 Aug 2021 13:40:29 +0000 |
| [[FS\_5GSTAR, 1171, Block A, 20th Aug. 1200CEST] MPEG Standards for Encapsulation and Signalling of Volumetric Media](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f6aaf1f5.2108D&S=) | Thomas Stockhammer | Mon, 23 Aug 2021 20:33:25 +0000 |

**Revisions**

* https://www.3gpp.org/ftp/tsg\_sa/WG4\_CODEC/TSGS4\_115-e/Inbox/Drafts/Video/[S4-211171](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211171.zip)\_pCR\_r01\_EncapsulationVolumetricMedia.docx

**Online Presenter:** Srinivas Gudumasu (Interdigital)

**Online Discussion:**

* Thomas: I wanna make sure that we can integrate the technologies into our delivery formats. We need to check if and how the technologies meet our system requirements.

**Decision:**

* Will be revised based on comments

[**S4-211171**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211171.zip) is revised to [**S4-211197**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211197.zip)**.**

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-211197](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211197.zip) | Background on MPEG Standards for Encapsulation and Signalling of Volumetric Media | InterDigital Communications | Ahmed Hamza |

**Online Presenter:** Srinivas Gudumasu (Interdigital)

**Online Discussion:**

* Thomas: I still believe we have missed to get significantly more information on how this can be added to our architecture. It is unclear how this matches our lengthy developed architecture. A much better information would have been really welcome. I wanna clarify this now to not give the impression that this is the appropriate information.
* Imed: Is there an overlap of scene description and delivery. We should absolutely avoid any mix of those two.
  + Srinivas: there is only metadata for each object and the metadata is optional
  + Thomas: But optional does not mean it is helpful. It should be related to our architecture and not just come out of
* Gilles: can we move it to the information to the information from the outside, for example to clause 4.5.
  + Ryan: can check to add this to clause 4.5
  + Srinivas: ok to add to different clause.

**Decision:**

* Agreed with comments above

[**S4-211197**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211197.zip) is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-211200](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211200.zip) | TR26.998 v0.9.0 | Samsung Research America | Hakju Ryan Lee |

|  |  |
| --- | --- |
| [S4-111200 (Draft TR 26.998) available in Draft](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;f9802b06.2108D&S=) | Hakju Ryan Lee |
| [S4-111200 (Draft TR 26.998) available in Draft](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_VIDEO;cc2db821.2108D&S=) | Thomas Stockhammer |

[**S4-211200**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211200.zip) is presented to SA4 plenary.

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| --- | --- | --- | --- |
| [S4-211216](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211216.zip) | Cover Page for TR26.998 v1.0.0 | Samsung Research America | Hakju Ryan Lee |

[**S4-211216**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211216.zip) is presented to SA4 plenary.

## 11.11 New Work / New Work Items and Study Items

none.

## 11.12 Liaisons and Liaison Responses

none.

## 11.13 Any Other Business

The report will be made available.

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| --- | --- | --- | --- |
| [S4-211322](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_115-e/Docs/S4-211322.zip) | Video SWG report during SA4 meeting | Tencent | Gilles Teniou |

Output documents

* A.I 6.3 LS from other groups
  + **1070 replied into 1207** reply LS to WAVE
  + **1057n**
  + **1054n**
  + **1179n**
* A.I. 14.5 VIDEO SWG report
  + **1322**
* A.I. 15 CRs to feature in Release 16 and earlier
  + **1204** CR 26.116
* A.I. 16.5 8K\_VR\_5G
  + **1035** CR 26.926
* A.I. 16.9 Other Rel-17 documents
  + **1205** (8K\_TV\_5G) as basis FFW
* A.I. 18.1 FS\_XRTraffic
  + **1208** TR
  + **1209** TP
  + **1210** PD
* A.I. 18.3 FS\_5GVideo
  + **1186** PD
  + **1187** TR
  + **1040** TP
* A.I. 18.5 FS\_5GSTAR
  + **1200** TR
  + **1216** Cover page
  + **1120** TP

## 11.14 Close of the session

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

The online session was closed on August 26, 2021 at 16:26 (CEST).

No more e-mail approval is pending.

## 11.15 Attendees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TITLE** | **Family Name** | **Given Name** | **Organization Represented** | **PRESENCE** |
| Dr. | Abhishek | Rohit | Tencent |  |
| Ms. | Ahsan | Saba | Nokia Belgium |  |
| Mr. | Aracena | Mauricio | Ericsson España S.A. | Y |
| Dr. | Biatek | Thibaud | ATEME |  |
| Dr. | Bouazizi | Imed | QUALCOMM Europe Inc. - Italy |  |
| Dr. | Bradbury | Richard | BBC |  |
| Dr. | Bruhn | Stefan | Dolby Laboratories Inc. |  |
| Dr. | Budagavi | Madhukar | Samsung Electronics Iberia SA | Y |
| Mr. | Burdinat | Christophe | ATEME |  |
| Mr. | Burman | Bo | Ericsson France S.A.S |  |
| Mr. | Cary | Judson | CableLabs |  |
| Mr. | Champel | Mary-Luc | Beijing Xiaomi Electronics |  |
| Dr. | Chan | Yee Sin | Facebook |  |
| Mrs. | Chaponniere | Lena | Qualcomm CDMA Technologies |  |
| Mr. | Chen | Dong | Xiaomi Communications |  |
| Dr. | Chen | Lulin | MediaTek Inc. | Y |
| Mr. | Choi | Hyung-Nam | Motorola Mobility UK Ltd. |  |
| Dr. | Curcio | Igor | Nokia Corporation |  |
| Mr. | Curti | Alain | Orange UK |  |
| Mr. | Dadas | Mohammed | Orange |  |
| Mr. | Dawkins | Spencer | Tencent | Y |
| Mr. | De Bont | Frans | Philips International B.V. |  |
| Mr. | Doehla | Stefan | Fraunhofer IIS |  |
| Mr. | Edwards | Robert | Matrixx |  |
| Dr. | Ehara | Hiroyuki | Panasonic Corporation |  |
| Dr. | El Essaili | Ali | Ericsson Telecomunicazioni SpA |  |
| Dr. | Escott | Adrian | Qualcomm Technologies Int |  |
| Dr. | Feiten | Bernhard | Deutsche Telekom AG |  |
| Mr. | Fogg | Chad | Google Inc. |  |
| Dr. | FOURDEUX | Henri | InterDigital France R&D, SAS | Y |
| Dr. | Frojdh | Per | Ericsson India Private Limited |  |
| Mr. | Gabin | Frederic | Dolby Laboratories Inc. |  |
| Mr. | Gao | Yuan | Huawei Technologies Japan K.K. |  |
| Mr. | Gibellino | Diego | TELECOM ITALIA S.p.A. |  |
| Dr. | Gierlich | Hans | HEAD acoustics GmbH |  |
| Dr. | Gimenez | Jordi J. | EBU |  |
| Mr. | Gu | Xiaojun | Huawei Tech.(UK) Co.. Ltd |  |
| Mr. | Gudumasu | Srinivas | InterDigital Communications |  |
| Mr. | Gunkel | Simon | KPN N.V. |  |
| Mr. | Håkansson | Stefan | Ericsson LM |  |
| Dr. | Hamza | Ahmed | InterDigital Communications |  |
| Dr. | Han | Jae-Shin | LG Electronics Deutschland |  |
| Dr. | He | Yong | Qualcomm Incorporated |  |
| Mr. | Heikkilä | Gunnar | Ericsson Japan K.K. |  |
| Mr. | Homkar | Ajay | Cadence Design Systems Inc. |  |
| Mr. | Howells | Elfed | Huawei Device Co., Ltd |  |
| Dr. | Hu | James | AT&T GNS Belgium SPRL |  |
| Dr. | Huang-fu | JJ | MediaTek Inc. |  |
| Mr. | Isberg | Peter | Sony Mobile Communications |  |
| Mr. | Jansson Toftgård | Tomas | Ericsson LM |  |
| Dr. | Jelinek | Milan | VoiceAge Corporation |  |
| Dr. | Joshi | Rajan | Samsung Electronics France SA |  |
| Dr. | Jung | Kyunghun | Facebook |  |
| Mr. | Kerdranvat | Michel | InterDigital France R&D, SAS |  |
| Dr. | Kim | Wuk | SAMSUNG R&D INSTITUTE JAPAN |  |
| Dr. | Kolan | Prakash | Samsung Electronics Nordic AB |  |
| Dr. | Kroon | Peter | Apple Benelux B.V. |  |
| Mr. | Kwon | WooSuk | LG Electronics Inc. | Y |
| Mr. | Laaksonen | Lasse | Nokia France |  |
| Mr. | Lair | Yannick | Nokia France |  |
| Mr. | Laitinen | Mikko-ville | Nokia UK |  |
| Dr. | Lee | Brian | Dolby Technology India Pvt Ltd | Y |
| Dr. | Lee | Hakju Ryan | Samsung Research America | Y |
| Mr. | Lemotheux | Julien | Orange Spain | Y |
| Mr. | Leung | Nikolai | QUALCOMM Europe Inc. - Spain | Y |
| Mr. | LI | LIN | China Mobile Com. Corporation |  |
| Dr. | Liao | Ellen C. | Intel |  |
| Mr. | Libunao | Gerardo | Verizon UK Ltd |  |
| Dr. | Litwic | Lukasz | Ericsson Hungary Ltd | Y |
| Mr. | Liu | Dan | ZTE Corporation |  |
| Mr. | LIU | Jianning(Carry) | Beijing Xiaomi Software Tech |  |
| Mrs. | Liu | Yan | HUAWEI TECHNOLOGIES Co. Ltd. |  |
| Mr. | Lo | Charles | Qualcomm Finland RFFE Oy |  |
| Dr. | Lohmar | Thorsten | Ericsson GmbH, Eurolab |  |
| Ms. | Lu | Wei | Xiaomi Technology |  |
| Mr. | Ma | Liangping | Qualcomm Wireless GmbH |  |
| Mrs. | Martin-Cocher | Gaelle | InterDigital, Europe, Ltd. |  |
| Dr. | Mate | Sujeet | Nokia Korea |  |
| Mr. | Mayer | Georg | HUAWEI TECHNOLOGIES Co. Ltd. |  |
| Mr. | Morita | Naotaka | NTT corporation |  |
| Dr. | Moriya | Takehiro | NTT |  |
| Mr. | Multrus | Markus | Fraunhofer IIS |  |
| Dr. | Ni | Hui | HUAWEI Technologies Japan K.K. |  |
| Mr. | Norvell | Erik | Ericsson Inc. |  |
| Dr. | Pan | Qi | Huawei Telecommunication India | Y |
| Mr. | Patry | Frank | Omnispace |  |
| Mr. | Pavlov | Dimitar | Vodafone Telekomünikasyon A.S. |  |
| Mr. | Pazos | Marcelo | Qualcomm Korea |  |
| Dr. | Peng | Ke | Beijing OPPO Com. corp., ltd |  |
| Ms. | Perey | Christine | Perey Research & Consulting |  |
| Mr. | Pica | Francesco | Qualcomm Incorporated |  |
| Mr. | Pihlajakuja | Tapani | Nokia Japan |  |
| Mr. | Plante | Fabrice | Apple Italia S.R.L. |  |
| Dr. | Pobloth | Harald | Nanjing Ericsson Panda Com Ltd |  |
| Mr. | Pousi | Timo | Ericsson Limited |  |
| Mr. | Ragot | Stephane | Orange Romania |  |
| Mr. | Rämö | Anssi | Nokia Germany |  |
| Mr. | Reimes | Jan | HEAD acoustics GmbH |  |
| Mr. | Rhyu | Sungryeul | Samsung Electronics Czech | Y |
| Dr. | Rusanovskyy | Dmytro | Qualcomm India Pvt Ltd |  |
| Ms. | Saha | Jayeeta | ETSI |  |
| Mr. | Sanchez de la Fuente | Yago | Fraunhofer HHI | Y |
| Mr. | Schevciw | Andre | Qualcomm Tech. Netherlands B.V |  |
| Ms. | Shen | Yang | Beijing Xiaomi Mobile Software |  |
| Mr. | Simmons | John | Google Inc. |  |
| Mr. | Singer | David | Apple (UK) Limited |  |
| Dr. | Sodagar | Iraj | Tencent |  |
| Mr. | Soloway | Alan | Qualcomm Austria RFFE GmbH |  |
| Dr. | Song | Jaeyeon | Samsung Electronics Co., Ltd |  |
| Mr. | Steck | Chris | Cisco Systems France |  |
| Dr. | Stockhammer | Thomas | Qualcomm communications-France |  |
| Mr. | Stojanovski | Saso | Intel Finland Oy |  |
| Dr. | Su | Huan-yu | Huawei Technologies Sweden AB | Y |
| Dr. | Szczerba | Marek | Philips International B.V. |  |
| Mr. | Szucs | Paul | Sony Europe B.V. |  |
| Dr. | TAN | PENG | TELUS |  |
| Mr. | Teniou | Gilles | Tencent |  |
| Mr. | THIENOT | Cedric | ENENSYS |  |
| Mr. | Thomas | Emmanuel | Xiaomi Communications | Y |
| Dr. | Tossavainen | Antero | Huawei Technologies Sweden AB |  |
| Dr. | Tourapis | Alexandros | Apple GmbH | Y |
| Mr. | Varga | Imre | QUALCOMM JAPAN LLC. |  |
| Mr. | Wang | Bin | Huawei Device Co., Ltd |  |
| Mr. | Wang | Dong | Guangdong OPPO Mobile Telecom. |  |
| Dr. | Wang | Xin | MediaTek Inc. |  |
| Mr. | Wang | Zhe | HuaWei Technologies Co., Ltd |  |
| Dr. | Wey | Jun Shan | Verizon Switzerland AG |  |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Software |  |
| Ms. | Wu | Shuxia | Honor |  |
| Dr. | Xie | Minjie | OPPO |  |
| Mr. | Xu | Song | China Mobile Com. Corporation |  |
| Mr. | yan | hua | ZTE Corporation |  |
| Dr. | Yang | Hyun-Koo | Samsung Electronics Romania |  |
| Dr. | Yang | Penglin | China Mobile Com. Corporation |  |
| Mr. | Yao | Yizhi | Intel China Ltd. |  |
| Mrs. | Yin | Yujian | China Mobile Com. Corporation |  |
| Mr. | Yip | Eric | Samsung R&D Institute UK | Y |