Video SWG Minutes during SA4#110

## 10.1 Opening of the session

Mr. Gilles Teniou (Tencent, Chairman of Video SWG) opens

* E-mail approval process May 25, 2020 at 21:25 (CEST)
* the online session on May 26, 2020 at 16:30 (CEST).

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

The minutes are shared [online](https://docs.google.com/document/d/1Y4-7dsvXZXH1zdfNH6SgSTDWKhkW2tfY7S2THRPcHEs/edit?usp=sharing).

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

* <https://list.etsi.org/scripts/wa.exe?A1=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO>
* <https://list.etsi.org/scripts/wa.exe?A1=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO>

Latest Timestamp for e-mail discussions: Mon, 24 Aug 2020 15:47:36 +0000

The agenda and the registration of documents are agreed.

## 10.2 Registration of documents

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

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| 10.1 | Opening of the session |  |
| 10.2 | Registration of documents |  |
| 10.3 | Reports and liaisons from other groups | 1120 (VRIF)  1121 (ITU-T SG16/Video codec eval.)  1122 (ITU-T SG16/VVC)  1258 (MPEG) |
| 10.4 | CRs to completed features in Release 16 and earlier | 26.116: 1028 |
| 10.5 | RM\_H263\_MP4V (Removal of H.263 and MPEG-4 Visual from 3GPP Services) | 1090  WIS: 1091 |
| 10.6 | FS\_VR\_CoGui (Feasibility Study on VR Streaming Conformance and Guidelines) |  |
| 10.7 | FS\_5GVideo (Feasibility Study on 5G Video Codec Characteristics) | TP: 1077  26.955: 1078, 1079, 1145, 1147, 1148, 1149, 1150,  1080, 1081, 1155 |
| 10.8 | FS\_XRTraffic (Feasibility Study on Typical Traffic Characteristics for XR Services and other Media) | TP: 1082  1083, 1084, 1111, 1112->1139, |
| 10.9 | FS\_5GSTAR (Feasibility Study on 5G Glass-type AR/MR Devices) | 26.998: 1042->1116, 1048, 1049, 1054,  PD: 1044  TP: 1046  1065, 1066, 1067, 1143 |
| 10.10 | New Work / New Work Items and Study Items | 8K\_VR\_5G: 1026, 1027\* |
| 10.11 | Liaisons and Liaison Responses |  |
| 10.12 | Any Other Business |  |
| 10.13 | Close of the session |  |

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| TDoc | Title | Source | Agenda item |
| [S4-201120](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201120.zip) | Liaison Statement on VRIF Guidelines 2.2 | VRIF | 10.3 |
| [S4-201121](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201121.zip) | LS/r on video codec evaluation | ITU-T SG16 | 10.3 |
| [S4-201122](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201122.zip) | LS on versatile video coding (VVC) | ITU-T SG16 | 10.3 |
| [S4-201028](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201028.zip) | Editorial Updates for Referencing 5GMS | Intel | 10.4 |
| [S4-201090](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201090.zip) | Completing RM\_H263\_MP4V | Qualcomm Incorporated | 10.5 |
| [S4-201091](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201091.zip) | Work Item Summary for RM\_H263\_MP4V | Qualcomm Incorporated | 10.5 |
| [S4-201077](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201077.zip) | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | 10.7 |
| [S4-201078](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201078.zip) | TR26.955: Proposed Editor's Update | Qualcomm Incorporated | 10.7 |
| [S4-201079](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201079.zip) | pCR26.955: Consolidated Scenarios | Qualcomm Incorporated | 10.7 |
| S4-201080 | pCR26.955: Consolidated Evaluation Conditions | Qualcomm Incorporated | 10.7 |
| S4-201081 | pCR26.955: Evaluation Metrics | Qualcomm Incorporated | 10.7 |
| [S4-201145](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201145.zip) | Online Gaming scenario | Tencent, InterDigital | 10.7 |
| [S4-201147](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201147.zip) | Gaming test sequences | Tencent | 10.7 |
| [S4-201148](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201148.zip) | Screen Content sequences | Tencent | 10.7 |
| [S4-201149](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201149.zip) | Audiovisual production scenario | Tencent | 10.7 |
| [S4-201150](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201150.zip) | AV production pCR | Tencent | 10.7 |
| S4-201155 | Online Gaming scenario for FS\_5GVideo | Beijing Xiaomi Electronics | 10.7 |
| [S4-201082](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201082.zip) | Proposed Updates to Work Plan for FS\_XRTraffic | Qualcomm Incorporated | 10.8 |
| [S4-201083](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201083.zip) | [FS\_XRTraffic] Updated System Design Assumptions for Split Rendering | Qualcomm Incorporated | 10.8 |
| [S4-201084](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201084.zip) | [FS\_XRTraffic] Updated Traffic Modelling for Split Rendering | Qualcomm Incorporated | 10.8 |
| [S4-201111](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201111.zip) | Considerations for Traffic Modelling for Viewport Dependent 3DoF Streaming | China Mobile Com. Corporation | 10.8 |
| [S4-201112](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201112.zip) | New media Channels of MTSI-based XR conversational services | China Mobile Com. Corporation | 10.8 |
| [S4-201139](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201139.zip) | New media Channels of MTSI-based XR conversational services | China Mobile Com. Corporation | 10.8 |
| [S4-201042](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201042.zip) | Draft skeleton for TR 26.998 | Samsung Electronics France SA | 10.9 |
| [S4-201044](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201044.zip) | FS\_5GSTAR Permanent Document v0.0.1 | Samsung Electronics France SA | 10.9 |
| [S4-201046](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201046.zip) | Proposed Work Plan for FS\_5GSTAR | Samsung Electronics France SA | 10.9 |
| [S4-201048](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201048.zip) | Proposed Texts for Introduction and Scope of TR 26.998 | Samsung Electronics France SA | 10.9 |
| [S4-201049](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201049.zip) | Proposed Use Case Template for 5GSTAR | Samsung Electronics France SA | 10.9 |
| [S4-201054](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201054.zip) | New use-case on AR conferencing | Ericsson LM | 10.9 |
| [S4-201065](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201065.zip) | FS\_5GSTAR: Use cases for AR Conversational | Huawei Technologies France | 10.9 |
| [S4-201066](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201066.zip) | FS\_5GSTAR: Proposed Architectures for AR Conversational | Huawei Technologies France | 10.9 |
| [S4-201067](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201067.zip) | FS\_5GSTAR: Proposed Media Centric Architecture for AR Conversational | Huawei Technologies France | 10.9 |
| [S4-201116](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201116.zip) | Draft skeleton for TR 26.998 | Samsung Electronics France SA | 10.9 |
| [S4-201143](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201143.zip) | Use case on streaming of volumetric video for glass-type MR devices | Fraunhofer HHI | 10.9 |
| [S4-201026](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201026.zip) | On Operation Points for 8K VR 360 Video over 5G | Intel | 10.10 |
| [S4-201027](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201027.zip) | New Work Item on “Operation Points for 8K VR 360 Video over 5G” | Intel | 10.10 |

## 10.3 Reports and liaisons from other groups

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| [S4-201120](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201120.zip) | Liaison Statement on VRIF Guidelines 2.2 | VR-IF | 5.3 |

**Presenter:** Ozgur Oyman (Intel)

**Discussion:**

* no actions needed

**Decision:**

* noted

**S4-201120** is noted.

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| [S4-201121](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201121.zip) | LS/r on video codec evaluation | ITU-T SG16 | 5.3 |

**E-mail Discussion:**

none triggered

**Presenter:** Gilles Teniou (Tencent)

**Discussion:**

* Thomas: we should thank ITU-T for this work. Not from this meeting, but from an upcoming telco. We should ask for power to reply in a telco.

**Decision:**

* reply to 1121 in 1244.
* 1244 will be drafted in a Video SWG

**S4-201121** is replied to in **S4-201244.**

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| [S4-201258](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201121.zip) | Liaison Statement from SC 29/WG 11 to 3GPP on BD-rate evaluation procedure [SC 29/WG 11 N19576] | ISO/IEC JTC 1/SC 29/WG 11 (MPEG) | 5.3 |

**E-mail Discussion:**

none triggered

**Presenter:** Gilles Teniou (Tencent)

**Discussion:**

* Thomas: same as 1121, we should respond in the same LS.

**Decision:**

* reply in 1244.
* 1244 will be drafted in a Video SWG AHG

**S4-201258** is replied to in **S4-201244.**

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| [S4-201244](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201244.zip) | Reply LS on video codec evaluation to ITU-T SG16 and ISO/IEC JTC 1/SC 29/WG 11 (MPEG) | 3GPP TSG SA WG4 | 5.3 |

**S4-201244** is postponed to video SWG telco.

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| [S4-201122](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201122.zip) | LS on versatile video coding (VVC) | ITU-T SG16 | 5.3 |

**E-mail Discussion:**

none triggered

**Presenter:** Gilles Teniou (Tencent)

**Discussion:**

* Thomas: propose to add the information to the draft TR.
  + Gilles: agree
* James: Will we do anything on VVC?
  + Thomas: this is the purpose of the ongoing study to identify if we any new codecs would be beneficial for 3GPP
  + James: What about AV1?
  + Gilles: Contribution driven

**Decision:**

* noted, but add content to TR

**S4-201122** is noted.

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

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| [S4-201028](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201028.zip) | Editorial Updates for Referencing 5GMS | Intel | 10.4 |

**E-mail Discussion:**

none triggered.

**Presenter:** Ozgur Oyman (Intel)

**Discussion:**

* Thomas: 5GMS3 is in MBS, we should just make them aware
* Thomas: Adding CMAF just without more details is possibly confusing. I would suggest adding more details to connect TV video profiles to 5G Media Streaming.
* Paul: It says over CMAF, and user service is also not correct.
* Frederic: TS 26.511 is referring to TS 26.116. Can we just simplify the intro to not add the services.
* Thomas: suggest to work offline to improve the introduction.

**Decision:**

* revision taking into account the above
* Interested in offline discussion: Thomas, Frederic, Thorsten, Paul

**S4-201028** is revised to **S4-201235**.

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| [S4-201235](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201235.zip) | Editorial Updates for Referencing 5GMS | Intel | 10.4 |

## 10.5 RM\_H263\_MP4V (Removal of H.263 and MPEG-4 Visual from 3GPP Services)

WID:  [*SP\_200400*](http://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_88E_Electronic/Docs/SP-200400.zip) New WID on Removal of H.263 and MPEG-4 Visual from 3GPP Services (RM\_H263\_MP4V)

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| [S4-201090](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201090.zip) | Completing RM\_H263\_MP4V | Qualcomm Incorporated | 10.5 |

**E-mail Discussion:**

none triggered.

**Presenter:** Thomas Stockhammer (Qualcomm)

**Discussion:**

* Stephane: DocFetcher with H.263 included, can you do this?
  + Thomas: not done, but can do
* Frederic: Thank you for searching
* Frederic: Would agree to not pursue circuit-switched specification.
  + Gilles: would agree on this one as well
  + Thomas: What is the process?
  + Frederic: The group would create a list and this is provided to MCC. They would basically do this.

**Decision:**

* agree in principle to declare completion

**S4-201090** is revised to **S4-201236**.

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| [S4-201236](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201236.zip) | Completing RM\_H263\_MP4V | Qualcomm Incorporated | 10.5 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Discussion:**

**Decision:**

**S4-201236** is .

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| [S4-201091](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201091.zip) | Work Item Summary for RM\_H263\_MP4V | Qualcomm Incorporated | 10.5 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Discussion:**

* none

**Decision:**

* agreed

**S4-201233** is agreed and will be presented to SA4 plenary for endorsement.

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| [S4-201233](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201233.zip) | CR 26.234-0230 Removing H.263 and MPEG-4 Visual from PSS | Qualcomm Incorporated | 10.5 |

**Presenter:** Thomas Stockhammer (Qualcomm)

**Discussion:**

* Gilles: please remove comment
  + Thomas ok

**Decision:**

* agreed with modification

**S4-201233** is revised to **S4-201237**.

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| [S4-201237](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201237.zip) | CR 26.234-0230rev1 Removing H.263 and MPEG-4 Visual from PSS | Qualcomm Incorporated | 10.5 |

**S4-201237** is agreed and will be presented to SA4 plenary.

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

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

no documents available.

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

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

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| [S4-201078](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201078.zip) | TR26.955: Proposed Editor's Update | Qualcomm Incorporated | 10.7 |

**E-mail Discussion:**

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| [[10.7; 1078; 21Aug 1230 CEST] FS\_5GVideo Technical Report](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=20320) | teniou(TeniouGilles) | Thu, 20 Aug 2020 10:31:41 +0000 |
| [[10.7; 1078; 21Aug 1230 CEST] FS\_5GVideo Technical Report](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=22780) | Paul Gorley | Thu, 20 Aug 2020 11:57:47 +0000 |
| [[10.7; 1078; 21Aug 1230 CEST] FS\_5GVideo Technical Report](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24878) | teniou(TeniouGilles) | Thu, 20 Aug 2020 13:12:05 +0000 |
| [[10.7; 1078; 21Aug 1230 CEST] FS\_5GVideo Technical Report](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=44845) | teniou(TeniouGilles) | Fri, 21 Aug 2020 17:19:08 +0000 |

**S4-201078** is agreed.

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| [S4-201079](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201079.zip) | pCR26.955: Consolidated Scenarios | Qualcomm Incorporated | 10.7 |

**E-mail Discussion:**

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| [[10.7; 1079; 21Aug 1230 CEST] FS\_5GVideo Consolidated scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=17810) | teniou(TeniouGilles) | Thu, 20 Aug 2020 10:32:05 +0000 |
| [[10.7; 1079; 21Aug 1230 CEST] FS\_5GVideo Consolidated scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=45836) | teniou(TeniouGilles) | Fri, 21 Aug 2020 17:24:32 +0000 |

**S4-201079** is agreed.

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| [S4-201243](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201243.zip) | TR26.955v0.3.0 | Qualcomm Incorporated | 10.7 |

**E-mail Discussion:**

<Thomas to fill>

**Presenter:**

**Discussion:**

**Decision:**

**S4-201243** is parked/agreed/noted/revised.

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| S4-201080 | pCR26.955: Consolidated Evaluation Conditions | Qualcomm Incorporated | 10.7 |

**E-mail Discussion:**

<Thomas to fill>

**Presenter:**

**Discussion:**

**Decision:**

**S4-201080** is parked/agreed/noted/revised.

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| S4-201081 | pCR26.955: Evaluation Metrics | Qualcomm Incorporated | 10.7 |

**E-mail Discussion:**

<Thomas to fill>

**Presenter:**

**Discussion:**

**Decision:**

**S4-201081** is parked/agreed/noted/revised.

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| [S4-201077](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201077.zip) | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | 10.7 |

**E-mail Discussion:**

<Thomas to fill>

**Presenter:**

**Discussion:**

**Decision:**

**S4-201077** is parked/agreed/noted/revised.

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| [S4-201145](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201145.zip) | Online Gaming scenario | Tencent, InterDigital | 10.7 |

**E-mail Discussion:**

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| [[10.7; 1145; 21Aug 1230 CEST] FS\_5GVideo Online gaming scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16552) | teniou(TeniouGilles) | Thu, 20 Aug 2020 10:32:02 +0000 |
| [[10.7; 1145; 21Aug 1230 CEST] FS\_5GVideo Online gaming scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=21573) | Richard Bradbury | Thu, 20 Aug 2020 12:17:02 +0100 |
| [[10.7; 1145; 21Aug 1230 CEST] FS\_5GVideo Online gaming scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=25533) | teniou(TeniouGilles) | Thu, 20 Aug 2020 16:29:57 +0000 |
| [[10.7; 1145; 21Aug 1230 CEST] FS\_5GVideo Online gaming scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=29532) | teniou(TeniouGilles) <teniou@TENCENT.COM> | Tue, 25 Aug 2020 15:15:40 +0000 |

**Presenter:**

**Discussion:**

**Decision:**

**S4-201145** is parked/agreed/noted/revised.

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| --- | --- | --- | --- |
| [S4-201147](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201147.zip) | Gaming test sequences | Tencent | 10.7 |

**E-mail Discussion:**

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| [[10.7; 1147; 21Aug 1230 CEST] FS\_5GVideo Gaming sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=19067) | teniou(TeniouGilles) | Thu, 20 Aug 2020 10:31:57 +0000 |
| [[10.7; 1147; 21Aug 1230 CEST] FS\_5GVideo Gaming sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=23374) | Paul Gorley | Thu, 20 Aug 2020 12:02:32 +0000 |
| [[10.7; 1147; 21Aug 1230 CEST] FS\_5GVideo Gaming sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=23912) | teniou(TeniouGilles) | Thu, 20 Aug 2020 13:00:50 +0000 |
| [[10.7; 1147; 21Aug 1230 CEST] FS\_5GVideo Gaming sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=39670) | Thomas Stockhammer | Fri, 21 Aug 2020 10:28:51 +0000 |
| [[10.7; 1147; 21Aug 1230 CEST] FS\_5GVideo Gaming sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=10434) | teniou(TeniouGilles) | Mon, 24 Aug 2020 15:16:52 +0000 |
| [[10.7; 1147; 21Aug 1230 CEST] FS\_5GVideo Gaming sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=11798) | teniou(TeniouGilles) | Mon, 24 Aug 2020 15:47:36 +0000 |
| [[10.7; 1147; 21Aug 1230 CEST] FS\_5GVideo Gaming sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=24343) | Thomas Stockhammer <tsto@QTI.QUALCOMM.COM> | Tue, 25 Aug 2020 11:48:26 +0000 |
| [[10.7; 1147; 21Aug 1230 CEST] FS\_5GVideo Gaming sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=26748) | teniou(TeniouGilles) <teniou@TENCENT.COM> | Tue, 25 Aug 2020 12:30:01 +0000 |

**Presenter:** Gilles Teniou (Tencent)

**Discussion:**

* Thomas: Thank you - what about PUBG?
  + Gilles: more difficult to get approval
* Thomas: Do we need all of them? Maybe we add all of them and do a pruning.
  + Gilles: we can do later
* Thomas: How have the sequences been generated?
  + Gilles: basically someone played the game and the sequences were dumped to file
* Thomas: reference the sequences from the main TR and add them to the Annex.
  + Gilles: ok
* Mary-Luc: Do these sequences include sufficient complexity?
  + Gilles: understood.

**Decision:**

* Add to annex and refer from main content.
* We need to find a hosting environment

**S4-201147** is agreed.

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| [S4-201148](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201148.zip) | Screen Content sequences | Tencent | 10.7 |

**E-mail Discussion:**

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| [[10.7; 1148; 21Aug 1230 CEST] FS\_5GVideo Screen Content sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=12789) | teniou(TeniouGilles) | Thu, 20 Aug 2020 10:31:51 +0000 |
| [[10.7; 1148; 21Aug 1230 CEST] FS\_5GVideo Screen Content sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=38272) | Thomas Stockhammer | Fri, 21 Aug 2020 10:24:12 +0000 |
| [[10.7; 1148; 21Aug 1230 CEST] FS\_5GVideo Screen Content sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=46540) | teniou(TeniouGilles) | Fri, 21 Aug 2020 17:32:55 +0000 |
| [[10.7; 1148; 21Aug 1230 CEST] FS\_5GVideo Screen Content sequences](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=9402) | Thomas Stockhammer | Mon, 24 Aug 2020 14:57:05 +0000 |

**S4-201148** is revised to **S4-201239**.

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| [S4-201239](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201239.zip) | Screen Content sequences | Tencent | 10.7 |

**Presenter:**

**Discussion:**

**Decision:**

**S4-201239** is parked/agreed/noted/revised.

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| [S4-201149](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201149.zip) | Audiovisual production scenario | Tencent | 10.7 |

**E-mail Discussion:**

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| [[10.7; 1149; 21Aug 1230 CEST] FS\_5GVideo AVProd scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=14049) | teniou(TeniouGilles) | Thu, 20 Aug 2020 10:31:55 +0000 |
| [[10.7; 1149; 21Aug 1230 CEST] FS\_5GVideo AVProd scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=34385) | Richard Bradbury | Fri, 21 Aug 2020 10:09:09 +0100 |
| [[10.7; 1149; 21Aug 1230 CEST] FS\_5GVideo AVProd scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=39106) | Thomas Stockhammer | Fri, 21 Aug 2020 10:26:15 +0000 |
| [[10.7; 1149; 21Aug 1230 CEST] FS\_5GVideo AVProd scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=47232) | teniou(TeniouGilles) | Fri, 21 Aug 2020 17:36:40 +0000 |
| [[10.7; 1149; 21Aug 1230 CEST] FS\_5GVideo AVProd scenario](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=14778) | teniou(TeniouGilles) <teniou@TENCENT.COM> | Mon, 24 Aug 2020 20:10:15 +0000 |

**S4-201149** is revised to **S4-201241**.

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| [S4-201241](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201241.zip) | Audiovisual contribution scenario | Tencent | 10.7 |

**Presenter:** Gilles Teniou (Tencent)

**Discussion:**

* Richard: refocusing on contribution makes it more meaningful.
* Thomas: there was an initial agreement that we do not add such scenarios. Now this makes it part of the discussion. We do not believe that this scenarios are typically useful for mobile devices
* Paul: agree that this is a different scenario, just to mention this
* Richard: would we talk more about a field reporter scenario or a professional production scenario.
* Paul: FLUS differentiate the breaking news reporter and the production scenario. Already discussed in FLUS.
* Thomas: just to clarify that we are interested in scenarios that hit main platforms, but we want to avoid that we create corner scenarios for dedicated HW that would be mixed up with requirements for main target platforms.
* Richard: there is a bit of a continuum from contribution to production.
* Gilles: not pushing hard
* Thomas: We have a bit of concern of the continuum, we should extend the social sharing scenario with a field reporter case.
* Gilles: Targeting the production scenario. So better note if there is no support.

**Decision:**

* Note as there is not sufficient interest.

**S4-201241** is noted.

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| [S4-201150](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201150.zip) | AV production pCR | Tencent | 10.7 |

**E-mail Discussion:**

none triggered

**S4-201150** is revised to **S4-201242**.

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| [S4-201242](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201242.zip) | AV contribution pCR | Tencent | 10.7 |

**Presenter:** Gilles Teniou (Tencent)

**Discussion:**

* see S4-201241

**Decision:**

* noted

**S4-201242** is noted.

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| S4-201155 | Online Gaming scenario for FS\_5GVideo | Beijing Xiaomi Electronics | 10.7 |

**E-mail Discussion:**

<Thomas to fill>

**Presenter:**

**Discussion:**

**Decision:**

**S4-201155** is parked/agreed/noted/revised.

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

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

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| [S4-201082](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201082.zip) | Proposed Updates to Work Plan for FS\_XRTraffic | Qualcomm Incorporated | 10.8 |

**E-mail Discussion:**

<Thomas to fill>

**Presenter:**

**Discussion:**

**Decision:**

**S4-201082** is parked/agreed/noted/revised.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-201083](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201083.zip) | [FS\_XRTraffic] Updated System Design Assumptions for Split Rendering | Qualcomm Incorporated | 10.8 |

**E-mail Discussion:**

none triggered.

**Presenter:**  Thomas Stockhammer (Qualcomm)

**Discussion:**

* Gilles: What is CRF?
  + Thomas: Constant Rate Factor, a constant quality mode in x265, but more efficient than constant QP.

**Decision:**

* Agreed and added to Permanent Document

**S4-201083** is agreed.

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| [S4-201245](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201245.zip) | [FS\_XRTraffic] Permanent Document v0.3.0 | Qualcomm Incorporated | 10.8 |

**E-mail Discussion:**

**Presenter:**  Thomas Stockhammer (Qualcomm)

**Discussion:**

**Decision:**

**S4-201245** is .

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| [S4-201084](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201084.zip) | [FS\_XRTraffic] Updated Traffic Modelling for Split Rendering | Qualcomm Incorporated | 10.8 |

**E-mail Discussion:**

none triggered

**Presenter:** Thomas Stockhammer (Qualcomm)

**Discussion:**

* Gaelle: What are the modelling parameters?
  + Thomas: please check the details in the PD.

**Decision:**

* Add a clear note to the PD with a note that is work in progress.

**S4-201084** is agreed.

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| [S4-201111](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201111.zip) | Considerations for Traffic Modelling for Viewport Dependent 3DoF Streaming | China Mobile Com. Corporation | 10.8 |

**E-mail Discussion:**

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| [[10.8; 1111; 26Aug 1400 CEST] FS\_XRTraffic: Traffic modelling for viewport dependent 3DoF streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=23131) | teniou(TeniouGilles) <teniou@TENCENT.COM> | Tue, 25 Aug 2020 11:47:47 +0000 |

**Presenter:**

**Discussion:**

**Decision:**

**S4-201111** is parked/agreed/noted/revised.

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| [S4-201112](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201112.zip) | New media Channels of MTSI-based XR conversational services | China Mobile Com. Corporation | 10.8 |

**S4-201112** is revised to **S4-201139**.

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| [S4-201139](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201139.zip) | New media Channels of MTSI-based XR conversational services | China Mobile Com. Corporation | 10.8 |

**E-mail Discussion:**

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| [[10.8; 1139; 26Aug 1400 CEST] FS\_XRTraffic: New media channels of MTSI-based XR conversational services](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=22412) | teniou(TeniouGilles) <teniou@TENCENT.COM> | Tue, 25 Aug 2020 11:47:52 +0000 |
| [[10.8; 1139; 26Aug 1400 CEST] FS\_XRTraffic: New media channels of MTSI-based XR conversational services](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=25250) | Sungryeul Rhyu <sungryeul@GMAIL.COM> | Tue, 25 Aug 2020 21:13:58 +0900 |
| [[10.8; 1139; 26Aug 1400 CEST] FS\_XRTraffic: New media channels of MTSI-based XR conversational services](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=27334) | zhoujiajun@chinamobile.com <zhoujiajun@CHINAMOBILE.COM> | Tue, 25 Aug 2020 21:44:21 +0800 |
| [[10.8; 1139; 26Aug 1400 CEST] FS\_XRTraffic: New media channels of MTSI-based XR conversational services](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=28118) | Sungryeul Rhyu <sungryeul@GMAIL.COM> | Tue, 25 Aug 2020 23:06:03 +0900 |
| [[10.8; 1139; 26Aug 1400 CEST] FS\_XRTraffic: New media channels of MTSI-based XR conversational services](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=30671) | zhoujiajun@chinamobile.com <zhoujiajun@CHINAMOBILE.COM> | Wed, 26 Aug 2020 03:00:40 +0800 |

**Presenter:**

**Discussion:**

**Decision:**

**S4-201139** is parked/agreed/noted/revised.

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

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

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| [S4-201042](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201042.zip) | Draft skeleton for TR 26.998 | Samsung Electronics France SA | 10.9 |

**S4-201042** is revised to **S4-201116**.

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| [S4-201044](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201044.zip) | FS\_5GSTAR Permanent Document v0.0.1 | Samsung Electronics France SA | 10.9 |

**E-mail Discussion:**

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| [[10.9; 1044; 21Aug 1230 CEST] FS\_5GSTAR Permanent document](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=11536) | teniou(TeniouGilles) | Thu, 20 Aug 2020 10:31:27 +0000 |
| [[10.9; 1044; 21Aug 1230 CEST] FS\_5GSTAR Permanent document](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=35193) | Thomas Stockhammer | Fri, 21 Aug 2020 10:03:27 +0000 |
| [[10.9; 1044; 21Aug 1230 CEST] FS\_5GSTAR Permanent document](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=49368) | teniou(TeniouGilles) | Fri, 21 Aug 2020 17:53:31 +0000 |
| [[10.9; 1044; 21Aug 1230 CEST] FS\_5GSTAR Permanent document](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=7802) | Thomas Stockhammer | Mon, 24 Aug 2020 14:35:11 +0000 |
| [[10.9; 1044; 21Aug 1230 CEST] FS\_5GSTAR Permanent document](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=1903) | Hakju Ryan Lee | Mon, 24 Aug 2020 16:30:35 +0900 |
| [[10.9; 1044; 21Aug 1230 CEST] FS\_5GSTAR Permanent document](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=21698) | Thomas Stockhammer <tsto@QTI.QUALCOMM.COM> | Tue, 25 Aug 2020 11:33:14 +0000 |
| [[10.9; 1044; 21Aug 1230 CEST] FS\_5GSTAR Permanent document](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=18297) | Hakju Ryan Lee <hakju00.lee@SAMSUNG.COM> | Tue, 25 Aug 2020 13:06:05 +0900 |
| [[10.9; 1044; 21Aug 1230 CEST] FS\_5GSTAR Permanent document](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=28713) | teniou(TeniouGilles) <teniou@TENCENT.COM> | Tue, 25 Aug 2020 14:19:16 +0000 |
| [[10.9; 1044; 21Aug 1230 CEST] FS\_5GSTAR Permanent document](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=20712) | Sejin Oh <sjin.oh@LGE.COM> | Tue, 25 Aug 2020 17:53:16 +0900 |
| [[10.9; 1044; 21Aug 1230 CEST] FS\_5GSTAR Permanent document](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=21461) | 이학주 <hakju00.lee@SAMSUNG.COM> | Tue, 25 Aug 2020 18:24:00 +0900 |

**S4-201044** is revised to **S4-201247**.

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| [S4-201247](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201247.zip) | FS\_5GSTAR Permanent Document v0.0.2 | Samsung Electronics France SA | 10.9 |

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

**Discussion:**

* Saba: Do we bring the use cases again to this PD?
  + Ryan: yes we do
  + Thomas: this seems a lot of new work. The study item does not call for this.
  + Gilles: kind of agree
  + Ryan: We should base it on the use cases in TR 26.928
* Igor: Can we do a better structure to the PD? Aligned with the objectives
  + Thomas: agree to replicate the structure of the PD according to the TR
  + Gilles: also agree
* Sejin: Use consideration - need to start from TR 26.928. What will we do for the use case for the study item?
  + Thomas: Agree on what Sejin is saying - we should not do new use cases. We should follow the agreements of TR26.928 and. We also need to follow the mandates of the study item. The study item does not call for new use cases.

**Decision:**

* needs a revision according to the above comments

**S4-201247** is revised to **S4-201251**.

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| [S4-201251](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201251.zip) | FS\_5GSTAR Permanent Document v0.0.3 | Samsung Electronics France SA | 10.9 |

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| [S4-201046](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201046.zip) | Proposed Work Plan for FS\_5GSTAR | Samsung Electronics France SA | 10.9 |

**E-mail Discussion:**

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| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=10293) | teniou(TeniouGilles) | Thu, 20 Aug 2020 10:31:18 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=27206) | Thomas Stockhammer | Thu, 20 Aug 2020 21:53:32 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=29223) | teniou(TeniouGilles) | Fri, 21 Aug 2020 04:04:11 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=31261) | Ahmed Hamza | Fri, 21 Aug 2020 04:24:29 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=32912) | Thomas Stockhammer | Fri, 21 Aug 2020 05:10:36 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=28473) | Hakju Ryan Lee | Fri, 21 Aug 2020 09:14:58 +0900 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=36729) | Ahsan, Saba (Nokia - FI/Espoo) | Fri, 21 Aug 2020 10:16:54 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=40464) | Ahsan, Saba (Nokia - FI/Espoo) | Fri, 21 Aug 2020 10:30:57 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=48572) | teniou(TeniouGilles) | Fri, 21 Aug 2020 17:51:25 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=1246) | tengyidan | Mon, 24 Aug 2020 07:17:47 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=4778) | Ahsan, Saba (Nokia - FI/Espoo) | Mon, 24 Aug 2020 08:43:23 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=5731) | Thomas Stockhammer | Mon, 24 Aug 2020 09:23:07 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=76) | Hakju Ryan Lee | Mon, 24 Aug 2020 16:00:03 +0900 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=2607) | Sungryeul Rhyu | Mon, 24 Aug 2020 16:31:23 +0900 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=3622) | Sejin Oh | Mon, 24 Aug 2020 16:37:21 +0900 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=5505) | 이학주 | Mon, 24 Aug 2020 18:15:38 +0900 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=6519) | 이학주 | Mon, 24 Aug 2020 18:42:35 +0900 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=13336) | Iraj Sodagar <irajs@LIVE.COM> | Mon, 24 Aug 2020 19:33:44 +0000 |
| [[10.9; 1046; 21Aug 1230 CEST] FS\_5GSTAR Timeplan](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=15587) | 이학주 <hakju00.lee@SAMSUNG.COM> | Tue, 25 Aug 2020 05:18:36 +0900 |

**S4-201046** is revised to **S4-201240**.

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| [S4-201240](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201240.zip) | Proposed Work Plan for FS\_5GSTAR | Samsung Electronics France SA | 10.9 |

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

**Discussion:**

* Thomas: Does this define the telcos for all video SWGs?
* Propose 2 each, and one joint.

**Decision:**

* Agree, offline discussion between Ryan and Thomas

**S4-201240** is revised to **S4-201250**.

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| [S4-201048](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201048.zip) | Proposed Texts for Introduction and Scope of TR 26.998 | Samsung Electronics France SA | 10.9 |

**E-mail Discussion:**

none triggered

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

**Discussion:**

* Thomas: Why do you call AR and MR platforms?
  + Ryan: could change, make suggestions
  + Thomas: we should focus on the device types
* Igor: propose to move the last sentence
  + Gilles: agree
* Iraj: second paragraph intro is unclear
  + Thomas: this paragraph preferably goes away
  + Gilles: kind of agree
  + Ryan: ok

**Decision:**

* Online edits and revisions.

**S4-201048** is revised to **S4-201249**.

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| [S4-201249](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201249.zip) | Proposed Texts for Introduction and Scope of TR 26.998 | Samsung Electronics France SA | 10.9 |

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| [S4-201049](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201049.zip) | Proposed Use Case Template for 5GSTAR | Samsung Electronics France SA | 10.9 |

**E-mail Discussion:**

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| [[10.9; 1040; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=15300) | teniou(TeniouGilles) | Thu, 20 Aug 2020 10:31:13 +0000 |
| [[10.9; 1040; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=37496) | Thomas Stockhammer | Fri, 21 Aug 2020 10:19:17 +0000 |

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| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=50133) | teniou(TeniouGilles) | Fri, 21 Aug 2020 17:56:51 +0000 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=8721) | Thomas Stockhammer | Mon, 24 Aug 2020 14:54:58 +0000 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=678) | Hakju Ryan Lee | Mon, 24 Aug 2020 16:14:02 +0900 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=4208) | Sejin Oh | Mon, 24 Aug 2020 17:21:54 +0900 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=6284) | 이학주 | Mon, 24 Aug 2020 18:27:23 +0900 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=14007) | Iraj Sodagar <irajs@LIVE.COM> | Mon, 24 Aug 2020 19:47:17 +0000 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=15814) | Sejin Oh <sjin.oh@LGE.COM> | Tue, 25 Aug 2020 08:54:54 +0900 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=16636) | Hakju Ryan Lee <hakju00.lee@SAMSUNG.COM> | Tue, 25 Aug 2020 12:15:32 +0900 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=25921) | teniou(TeniouGilles) <teniou@TENCENT.COM> | Tue, 25 Aug 2020 12:17:58 +0000 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=17206) | Hakju Ryan Lee <hakju00.lee@SAMSUNG.COM> | Tue, 25 Aug 2020 12:25:32 +0900 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=20011) | Sejin Oh <sjin.oh@LGE.COM> | Tue, 25 Aug 2020 17:40:27 +0900 |
| [[10.9; 1049; 21Aug 1230 CEST] FS\_5GSTAR Use case template](https://list.etsi.org/scripts/wa.exe?A2=ind2008D&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=30435) | 이학주 <hakju00.lee@SAMSUNG.COM> | Wed, 26 Aug 2020 00:26:10 +0900 |

**S4-201049** is revised to **S4-201246**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-201246](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201246.zip) | Proposed Use Case Template for 5GSTAR | Samsung Electronics France SA | 10.9 |

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

**Discussion:**

* Thomas: What objective are we addressing by collecting use cases?
  + Ryan: objective 2
  + Thomas: only says to possibly do new in the context 26.928
* Sejin: Still unclear why we select use cases
* Thomas: I do not believe we should repeat TR26.928.

**Decision:**

* Noted as no agreement

**S4-201249** is noted.

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| [S4-201054](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201054.zip) | New use-case on AR conferencing | Ericsson LM | 10.9 |

**E-mail Discussion:**

none triggered

**Presenter: Ali**

**Discussion:**

* Thomas: Use cases are not new, they are just point cloud and mesh conferencing. Hologram is a rendering technology
  + Eric: agree on this
  + Ali: we can change to point cloud
  + ML: very reluctant to add holographic displays at this stage. Not part of the study.
* Thomas: Very worried about the bitrates. 4.8 GBit/s seems very significant
  + Ali: our own experience
* Gilles: can we add this use case when removing the controversial topic
  + ML: I agree on this, but still reluctant on the capture part
  + Thomas: agree that there is a capturing issue
  + Ali: can be done with a single camera
  + Thomas: but then the 4.8 Gbps seems to be to hight
* ML: still need much more information on the feasibility.

**Decision:**

* Decision: noted, asking for revision for a telco taking into the concerns from above.

**S4-201054** is noted.

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| [S4-201065](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201065.zip) | FS\_5GSTAR: Use cases for AR Conversational | Huawei Technologies France | 10.9 |

**E-mail Discussion:**

<Thomas to fill>

**Presenter:**

**Discussion:**

**Decision:**

**S4-201065** is parked/agreed/noted/revised.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-201066](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201066.zip) | FS\_5GSTAR: Proposed Architectures for AR Conversational | Huawei Technologies France | 10.9 |

**E-mail Discussion:**

<Thomas to fill>

**Presenter:**

**Discussion:**

**Decision:**

**S4-201066** is parked/agreed/noted/revised.

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| [S4-201067](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201067.zip) | FS\_5GSTAR: Proposed Media Centric Architecture for AR Conversational | Huawei Technologies France | 10.9 |

**E-mail Discussion:**

<Thomas to fill>

**Presenter:**

**Discussion:**

**Decision:**

**S4-201067** is parked/agreed/noted/revised.

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| --- | --- | --- | --- |
| [S4-201116](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201116.zip) | Draft skeleton for TR 26.998 | Samsung Electronics France SA | 10.9 |

**E-mail Discussion:**

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| --- | --- | --- |
| [[10.9; 1116; 21Aug 1230 CEST] FS\_5GSTAR Draft TR](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=9050) | teniou(TeniouGilles) | Thu, 20 Aug 2020 10:30:51 +0000 |
| [[10.9; 1116; 21Aug 1230 CEST] FS\_5GSTAR Draft TR](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=35964) | Thomas Stockhammer | Fri, 21 Aug 2020 10:13:46 +0000 |
| [[10.9; 1116; 21Aug 1230 CEST] FS\_5GSTAR Draft TR](https://list.etsi.org/scripts/wa.exe?A2=ind2008C&L=3GPP_TSG_SA_WG4_VIDEO&O=D&P=47793) | teniou(TeniouGilles) | Fri, 21 Aug 2020 17:41:23 +0000 |

**S4-201116** is agreed.

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| [S4-201143](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201143.zip) | Use case on streaming of volumetric video for glass-type MR devices | Fraunhofer HHI | 10.9 |

**E-mail Discussion:**

<Thomas to fill>

**Presenter:**

**Discussion:**

**Decision:**

**S4-201143** is parked/agreed/noted/revised.

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

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| [S4-201026](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201026.zip) | On Operation Points for 8K VR 360 Video over 5G | Intel | 10.10 |

**Presenter:** Ozgur Oyman (Intel)

**Discussion:**

* Thomas: Do you refer to Galaxy S20 for gear based consumption?
  + Ozgur: yes, gear-based
  + Ryan: yes, gear-based
* Sejin: Based on MPEG work, but no level has been assigned to the profile. MPEG did not make any decisions.
  + Ozgur: Work not related to MPEG profiles. 3GPP did own profile. OMAF will not be be updated to add codec specific profiles, it will be codec independent.
  + Sejin: Today the profile in 3GPP is compatible with OMAF. Newly defined operation point will not be.
  + Ozgur: Why not?
  + Sejin: because it is not part of OMAF
  + Ozgur: Still compatible with OMAF

**Decision:**

* proposal to note this document. agreed to note

**S4-201026** is noted.

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| --- | --- | --- | --- |
| [S4-201234](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201234.zip) | New Work Item on “Operation Points for 8K VR 360 Video over 5G” | Intel | 10.10 |

**Presenter:** Ozgur Oyman (Intel)

**Discussion:**

* Thomas: maybe add some CMAF relation
  + Gilles: could be ok
* Thomas: would like to clearly define the 8K decoding capabilities
  + Mary-Luc: What would be the use case?
  + Thomas: Not a matter of the use case, more of documenting the obvious
* Fred: We think it makes sense, Dolby would like to be added as supporting company.
* Sejin: We need some more time on the work item
* Mary-Luc: Supported by Xiaomi

**Decision:**

* Revision according to the above.
* Offline discussion including Sejin, Fred, Mary-Luc, Gilles

**S4-201234** is revised to **S4-201238.**

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| [S4-201238](http://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_110-e/Docs/S4-201238.zip) | New Work Item on “Operation Points for 8K VR 360 Video over 5G” | Intel | 10.10 |

## 10.11 Liaisons and Liaison Responses

**See under 10.3.**

## 10.12 Any Other Business

The report will be made available in **S4-20XXXX.**

## 10.13 Work Plan

## 

## 10.14 Close of the session

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

The online session was closed on May 29, 2020 at 09:05 (CEST).

E-mail approval for documents will conclude on May 29, 2020 12:00 (CEST)

## 10.15 Participants

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** |  | **COMPANY** | **Attended** |
| Stockhammer | **Thomas** | **Qualcomm Incorporated** | Yes |
| Teniou | **Gilles** | **Tencent** | Yes |
| Curcio | **Igor** | **Nokia** |  |
| Oh | **Sejin** | **LG Electronics Inc.** | Yes |
| Lee | **Brian** | **Dolby Laboratories** | Yes |
| Singh | **Gurdeep** | **Fraunhofer HHI** | Yes |
| Thienot | **Cedric** | **Expway** |  |
| Tan | **Peng** | **TELUS** |  |
| Champel | **Mary-Luc** | **XiaoMi** |  |
| Yee Sin | **Chan** | **Facebook** | Yes |
| Iraj | **Sodagar** | **Tencent** |  |
| Richard | **Bradbury** | **BBC R&D** |  |
| Henri | **Fourdeux** | **InterDigital** | Yes |
| Choi | **Kiho** | **Samsung Electronics** |  |
| Michel | **Kerdranvat** | **InterDigital** |  |
| Ahmed | **Hamza** | **InterDigital** | Yes |
| Bo | **Burman** | **Ericsson** |  |
| Lee | **Ryan** | **Samsung Electronics** | Yes |
| Hu | **James** | **AT&T** |  |
| Isberg | **Peter** | **Sony** | Yes |
| Lemotheux | **Julien** | **Orange** | Yes |
| Oyman | **Ozgur** | **Intel** | Yes |
| Srinivas | **Gudumasu** | **InterDigital** | Yes |
| Zhang | **Zhuoyun** | **Tencent** | Yes |
| Biatek | **Thibaud** | **ATEME** | Yes |
| Jelinek | **Milan** | **VoiceAge Corporation** | Yes |