**Source: SA4 MBS SWG Chairman[[1]](#footnote-1)**

**Title: 3GPP SA4 MBS SWG report during SA4#122**

**Document for: Approval**

**Agenda item: 12.2**

MBS SWG Minutes during SA4#122

## 8.1 Opening of the session

Mr. Frédéric Gabin (Dolby, Chairman of MBS SWG) opens the sessions on 20th February 2023 at 16:15 (local time Athens).

Prakash Kolan (Samsung), Julien Lemotheux (Orange) and Thomas Stockhammer (Qualcomm) are assigned as scribes.

The minutes are shared [MBS SWG Minutes during SA4#122](https://docs.google.com/document/d/1F7qaLXeOeOxS-AS_WbXzy-bvAK20o8xwgIZarTTiZyo/edit?usp=sharing).

The attendance is tracked [here](#bxrguoa2ijzi).

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

* https://list.etsi.org/scripts/wa.exe?A1=ind2302C&L=3GPP\_TSG\_SA\_WG4\_MBS
* https://list.etsi.org/scripts/wa.exe?A1=ind2302D&L=3GPP\_TSG\_SA\_WG4\_MBS

**SA4 Schedule:**



The agenda and the registration of documents are agreed.

## 8.2 Registration of documents

|  |  |  |  |
| --- | --- | --- | --- |
| TDoc | Title | Source | Agenda item |
| [S4-230007](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230007.zip) | LS on QoE measurements in RRC IDLE/INACTIVE states | RAN2 | 5 |
| [S4-230008](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230008.zip) | Further reply LS on RAN visible QoE | RAN2 | 5 |
| [S4-230011](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230011.zip) | LS to SA4 on ID of MBS session in MBS QoE configuration | RAN3 | 5 |
| [S4-230271](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230271.zip) | ON ETSI TS 103 720 (5G BROADCAST SYSTEM FOR LINEAR TV AND RADIO SERVICES; LTE-BASED 5G TERRESTRIAL BROADCAST SYSTEM) SECOND VERSION | 5G Media Action Group | 5 |
| [S4-230103](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230103.zip) | Draft Reply LS on QoE in RRC IDLE-INACTIVE | Ericsson LM | 8.3 |
| [S4-230163](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230163.zip) | Draft Reply LS on ID of MBS session in MBS QoE configuration | Huawei, HiSilicon | 8.3 |
| [S4-230164](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230164.zip) | Draft Reply LS on QoE measurements in RRC IDLE INACTIVE states | Huawei, HiSilicon | 8.3 |
| [S4-230040](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230040.zip) | [5MBUSA] Modifications to reference architecture | BBC | 8.5 |
| [S4-230041](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230041.zip) | [5GMS3] Rel-16 corrections | BBC | 8.5 |
| [S4-230042](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230042.zip) | [5GMS3] Rel-17 corrections | BBC | 8.5 |
| [S4-230044](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230044.zip) | [FS\_5GMS\_EXT] Key Issue on Application Server configuration and management | BBC | 8.5 |
| S4-230050 | NULL | BBC | 8.5 |
| [S4-230051](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230051.zip) | [5MBUSA] Corrections to domain model and procedures | BBC | 8.5 |
| [S4-230061](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230061.zip) | Corrections to DASH quality metric and QoE configuration and reporting | Lenovo | 8.5 |
| [S4-230062](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230062.zip) | Corrections to DASH quality metric and QoE configuration and reporting | Lenovo | 8.5 |
| [S4-230063](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230063.zip) | Corrections to RAN visible QoE configuration and reporting | Lenovo | 8.5 |
| [S4-230078](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230078.zip) | [5MBUSA] Updates on MBS Security | Qualcomm incorporated | 8.5 |
| [S4-230079](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230079.zip) | [5MBP3] General Updates and Corrections | Qualcomm incorporated | 8.5 |
| [S4-230101](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230101.zip) | [5MBUSA] Correction of Nmb5 / Nmb10 notification events | Ericsson LM | 8.5 |
| [S4-230165](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230165.zip) | Security mechanisms for MBS traffic | Huawei, HiSilicon | 8.5 |
| [S4-230166](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230166.zip) | Clarification on measurement of buffer levels for RVQoE | Huawei, HiSilicon | 8.5 |
| [S4-230220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230220.zip) | [FS\_5GMS\_EXT] Key Issue on Application Server configuration and management | BBC | 8.5 |
| [S4-230227](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230227.zip) | [5MBUSA] Corrections and Additions to TS 26.502 | Qualcomm Incorporated, BBC, Ericsson LM | 8.5 |
| [S4-230228](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230228.zip) | [5MBP3] Bug Fixes to TS 26.517 | Qualcomm incorporated | 8.5 |
| [S4-230229](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230229.zip) | [EVEX] Corrections and Additions to TS 26.531 | Qualcomm incorporated | 8.5 |
| S4-230266 | [5GMS3] Rel-16 corrections | BBC | 8.5 |
| S4-230267 | [5GMS3] Rel-17 corrections | BBC | 8.5 |
| [S4-230273](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230273.zip) | [EVEX] Corrections and Additions to TS 26.531 | Qualcomm Incorporated | 8.5 |
| [S4-230138](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230138.zip) | [SR\_MSE] Split Rendering Configuration Information | Qualcomm Korea | 8.6 |
| [S4-230133](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230133.zip) | [SR\_MSE] Harmonizing the SR reference architectures | Qualcomm Korea | 6.1 |
| [S4-230134](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230134.zip) | [SR\_MSE] Considerations for SR API | Qualcomm Korea | 6.1 |
| [S4-230137](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230137.zip) | [SR\_MSE] glTF as a description format for pre-rendered content | Qualcomm Korea | 6.1 |
| [S4-230160](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230160.zip) | [SR\_MSE] Consolidating the reference architectures | Tencent Cloud | 8.6 |
| [S4-230161](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230161.zip) | [SR\_MSE] Updating the call flows | Tencent Cloud | 8.6 |
| [S4-230162](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230162.zip) | [SR\_MSE] Split Rendering APIs | Tencent Cloud | 8.6 |
| [S4-230188](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230188.zip) | Correction for XR framework reference and privacy for TS 26.565 | Apple | 8.6 |
| [S4-230043](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230043.zip) | [5GMS\_Ph2] Discussion on 5GMS M3 Application Server configuration API | BBC | 8.7 |
| [S4-230045](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230045.zip) | [5GMS\_Ph2] Discussion on Service URLs and Media Session Handler launching | BBC | 8.7 |
| [S4-230080](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230080.zip) | [5GMSA\_Ph2] End-to-end low latency live streaming | Qualcomm incorporated | 8.7 |
| [S4-230081](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230081.zip) | [5GMSA\_Ph2] 5GMS over 5MBS | Qualcomm incorporated | 8.7 |
| [S4-230082](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230082.zip) | [5GMSA\_Ph2] Downlink Streaming to Media Players with Different Manifests | Qualcomm incorporated | 8.7 |
| [S4-230099](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230099.zip) | Correction of metrics reporting for eMBMS | Ericsson LM | 8.7 |
| [S4-230152](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230152.zip) | [5GMS\_PH2] Uplink, remote-control-general description | Tencent Cloud | 8.7 |
| [S4-230153](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230153.zip) | [5GMS\_Ph2] Uplink, remote control- procedure | Tencent Cloud | 8.7 |
| [S4-230154](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230154.zip) | [5GMSA-PH2] Uplink remote control, fixing Annex A | Tencent Cloud | 8.7 |
| [S4-230155](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230155.zip) | [5GMS\_Ph2] Downlink Streaming to Media Players with Different Manifests: minor refinements | Tencent | 8.7 |
| [S4-230157](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230157.zip) | [5GMS\_Ph2] End-to-end low latency live streaming: new refinements | Tencent | 8.7 |
| [S4-230200](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230200.zip) | [5GMS\_Ph2] UE data processing for AF-based NA | Sony Europe B.V. | 8.7 |
| [S4-230243](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230243.zip) | [5GMS\_Ph2] Data collection for ANBR-based NA | Sony Europe B.V. | 8.7 |
| [S4-230244](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230244.zip) | [5GMS\_Ph2] Event exposure use case NA | Sony Europe B.V. | 8.7 |
| [S4-230111](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230111.zip) | Introduction of xHE-AAC stereo audio operation point | Dolby Laboratories Inc., Fraunhofer IIS, VoiceAge Corporation, Samsung Electronics Co., Ltd, Philips International B.V., ETRI, Qualcomm incorporated, Panasonic Holdings Corporation, Nokia Corporation, Orange, Tencent | 8.8 |
| [S4-230112](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230112.zip) | Upgrade of audio profiles for 5G-Advanced | Dolby Laboratories Inc., Fraunhofer IIS, VoiceAge Corporation, Samsung Electronics Co., Ltd, Philips International B.V., ETRI, Qualcomm incorporated, Panasonic Holdings Corporation, Nokia Corporation, Orange, Tencent | 8.8 |
| [S4-230113](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230113.zip) | Discussion on 5GMS Audio codec requirements for 5G-Advanced | Dolby Laboratories Inc., Fraunhofer IIS, VoiceAge Corporation, Samsung Electronics Co., Ltd, Philips International B.V., ETRI, Qualcomm incorporated, Panasonic Holdings Corporation, Nokia Corporation, Orange, Tencent | 8.8 |
| [S4-230209](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230209.zip) | 5GMS Audio Codec Review in 26.511 | Apple, Huawei, Xiaomi, Google | 8.8 |
| [S4-230083](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230083.zip) | [FS\_SmarTAR] Proposed Updated Work Plan | Qualcomm incorporated | 8.9 |
| [S4-230084](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230084.zip) | [FS\_SmarTAR] Editor's Proposed Update of TR 26.806 | Qualcomm incorporated | 8.9 |
| [S4-230085](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230085.zip) | [FS\_SmarTAR] Key Issue #4: Formats and Connectivity of Tethered Glass | Qualcomm incorporated | 8.9 |
| [S4-230086](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230086.zip) | [FS\_SmarTAR] Key Issue #5: Compute distribution across UE and network for tethered glasses | Qualcomm incorporated | 8.9 |
| [S4-230168](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230168.zip) | [FS\_SmarTAR] Latency Measurement and Reporting | Qualcomm Technologies Ireland | 8.9 |
| [S4-230173](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230173.zip) | [FS\_SmarTAR] Overhead reduction for In-band Latency Measurement | Qualcomm Technologies Ireland | 8.9 |
| [S4-230187](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230187.zip) | [FS\_SmarTAR] Key Issue #6: Usage of PIN for Tethered Glasses | Nokia France | 8.9 |
| [S4-230240](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230240.zip) | [FS\_SmarTAR]Proposed updates to 4.3 PIN elements | Nokia France | 8.9 |
| [S4-230167](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230167.zip) | Clarification on traffic migration to different network slices | Huawei, HiSilicon | 8.10 |
| [S4-230249](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230249.zip) | [FS\_MS\_NS\_Ph2] Network Slice Service Continuity | Samsung Research America | 8.10 |
| [S4-230250](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230250.zip) | [FS\_MS\_NS\_Ph2] Use cases for Network Slicing and Architecture Assumptions | Samsung Research America | 8.10 |
| [S4-230251](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230251.zip) | [FS\_MS\_NS\_Ph2] Key Issues on service provisioning and dynamic policy | Samsung Research America | 8.10 |
| [S4-230252](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230252.zip) | [FS\_MS\_NS\_Ph2] Key Issue on Slice selection for M5 requests | Samsung Research America | 8.10 |
| [S4-230253](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230253.zip) | [FS\_MS\_NS\_Ph2] Candidate Solution for Key Issue #1: Service Provisioning | Samsung Research America | 8.10 |
| [S4-230255](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230255.zip) | Draft TR 26.941 v0.4.0 | Samsung Research America | 8.10 |
| S4-230256 | [FS\_MS\_NS\_Ph2] Proposed Updated Time and Work Plan | Samsung Research America | 8.10 |
| [S4-230088](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230088.zip) | Draft WID for 5G Media Streaming Protocols Phase 2 | Qualcomm incorporated | 8.11 |
| [S4-230216](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230216.zip) | 5G Media Streaming Architecture Phase 3 | Tencent Cloud | 8.11 |
| [S4-230087](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230087.zip) | 3GPP Service and URL Handler | Qualcomm incorporated | 8.12 |
| [S4-230171](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230171.zip) | [TEI17, AE\_enTV-S4] Support of ETSI TS 103 720 second version | Qualcomm Europe Inc. Sweden | 8.12 |
| [S4-230230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230230.zip) | Regarding EVEX Support for non-Human Consumption oriented Application Services | Qualcomm Incorporated | 8.12 |

## 8.3 Reports/Liaisons from other groups/meetings

### 8.3.1 Incoming LSs

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230007](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230007.zip) | LS on QoE measurements in RRC IDLE/INACTIVE states | RAN2 | Andrijana Brekalo |

Online Discussion:

* Qi: I provided an answer in 164.

Decision: Replied in 164.

S4-230007 is **replied** into S4-230164.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230008](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230008.zip) | Further reply LS on RAN visible QoE | RAN2 | Andrijana Brekalo |

Online Discussion:

* Gunnar: There is one CR from Lenovo addressing it. We can note.

Decision: Noted.

S4-230008 is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230011](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230011.zip) | LS to SA4 on ID of MBS session in MBS QoE configuration | RAN3 | Andrijana Brekalo |

Online Discussion:

* Qi: There is a reply LS from my side (163)

Decision: Replied into 163.

S4-230011 is **replied** into S4-230163.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230271](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230271.zip) | ON ETSI TS 103 720 (5G BROADCAST SYSTEM FOR LINEAR TV AND RADIO SERVICES; LTE-BASED 5G TERRESTRIAL BROADCAST SYSTEM) SECOND VERSION | 5G Media Action Group | Andrijana Brekalo |

Online Discussion:

* Frederic: The CR is ready but we have to answer.
* Thomas (via chat in Teams): I prepared a response in 329.

Decision: Replied in 329.

S4-230271 is **replied** to in S4-230329.

### 8.3.2 Proposed Responses

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230103](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230103.zip) | Draft Reply LS on QoE in RRC IDLE-INACTIVE | Ericsson LM | Gunnar Heikkilä |

Online Discussion:

* Gunnar: We can note.

Decision: Noted.

S4-230103 is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230163](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230163.zip) | Draft Reply LS on ID of MBS session in MBS QoE configuration | Huawei, HiSilicon | Qi Pan |

Presenter: Qi Pan

Online Discussion:

* r01 presented.
* Richard: It is true to say no ongoing Rel-18. It is also true for Rel-17.
* Frederic: It is enough to say we don’t have anything and we have no ongoing work.
* r02 presented.
* Frederic: We should also indicate that there is nothing in Rel-17.
* Why is SA5 in cc?
* Qi: For the RAN-based QoE, it is better to notify SA5 on this.

Decision: Revised to 347

S4-230163 is **revised** to S4-230347.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230163.zip)347 | Draft Reply LS on ID of MBS session in MBS QoE configuration | Huawei, HiSilicon | Qi Pan |

Presenter: Qi Pan

Online Discussion:

* None

Decision: Agreed without presentation, ges to plenary

S4-230347 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230164](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230164.zip) | Draft Reply LS on QoE measurements in RRC IDLE INACTIVE states | Huawei, HiSilicon | Qi Pan |

Presenter: Qi Pan

Online Discussion:

* r02 presented.
* Qi: Charles added the last paragraph but I prefer to remove it and he was OK.
* Waqar: For question 2, I need to check. For question 3, the reply is a bit ambiguous.
* Gunnar: For question 3 and 4, we could simplify the answers because they should ask SA5.
* Frederic: From an SA4 perspective, we could indicate that the report doesn’t expire.
* r04 presented.

Decision: Contribution to be revised. The revision will be agreed without presentation and go to plenary.

S4-230164 is **revised** to S4-230369.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230164.zip)369 | Draft Reply LS on QoE measurements in RRC IDLE INACTIVE states | Huawei, HiSilicon | Qi Pan |

Decision: Agreed without presentation and goes to plenary.

S4-230369 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230164.zip)196 | Reply LS on security architecture for 5G multicast-broadcast services | BBC | Richard Bradbury |

Presenter: Richard Bradbury

Online Discussion:

* Qi: For the user-plane SA2 planned to follow SA3. Offline discussion with SA3 would be good.
* Thorsten: SA4 could take the responsibility.
* Frederic: We should ask SA3 for the correction and cc SA2.
* r01\_huawei version presented.
* Qi: In clause 6.13, it should be an MBS Security Function with a small “f”. MBSSF is not a network function, but a logical entity to support security functions necessary for MBS

Decision: Revised to 346. 346 will go to the plenary.

S4-230196 is **revised** to S4-230346.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230346](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230346.zip) | Reply LS on security architecture for 5G multicast-broadcast services | BBC | Richard Bradbury |

Presenter: Richard Bradbury

Online Discussion:

* Presented in plenary

Decision: LS is approved

S4-230346 is approved.

## 8.4 Issues for immediate consideration

None

## 8.5 CRs to completed features in Release 17 and earlier

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230040](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230040.zip) | [5MBUSA] Modifications to reference architecture | BBC | Richard Bradbury |

Presenter: Richard Bradbury

Online Discussion:

* Qi: About the description of MBSSF, maybe we can also indicate in 4.2.2 the key management. In addition, the FQDN or IP address of MBSSF has to be informed to the UE.
* Thorsten: SA2 says that reference points attached to MBSSF are not in scope. Also in regards to control plane, this entity is optional.
	+ Richard: Yes.
	+ Thorsten: Need to figure out what needs to be specified in Rel-17.
	+ Richard: Specify enough, but not too much.
	+ Richard: Yes, agree that we need to find an endpoint for user plane security. A revision is needed.
* r01 presented.
* Qi: Your change mentions user plane authentication only. MBSSF also supports key management (generation and distribution). Just saying authentication is not appropriate.
* Richard: OK, I will provide a revision.
* Thorsten: Maybe we can indicate that MBSSF is a logical function.
* Richard: It is indicated in 4.3.4A “optional”. I can add “logical”.

Decision: Revised. The revision will go to the closing plenary.

S4-230040 is **revised** to S4-230382.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230382](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230382.zip) | [5MBUSA] Modifications to reference architecture | BBC | Richard Bradbury |

Presenter: Richard Bradbury

Online Discussion:

* No comments

Decision:

S4-230382 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230041](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230041.zip) | [5GMS3] Rel-16 corrections | BBC | Richard Bradbury |

Presenter: Richard Bradbury

Online Discussion:

* rev1 presented.
* No comments.

Decision: Revised to 266. The revision is agreed without presentation and goes to the plenary.

S4-230041 is **revised** to S4-230266.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230041.zip)266 | [5GMS3] Rel-16 corrections | BBC | Richard Bradbury |

Decision: Agreed in plenary.

S4-230266 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-23004](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230041.zip)2 | [5GMS3] Rel-17 corrections | BBC | Richard Bradbury |

Presenter: Richard Bradbury

Online Discussion:

* rev1 presented.
* No comments.

Decision: Revised to 267. The revision is agreed without presentation and goes to the plenary.

S4-230042 is **revised** to S4-230267.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230041.zip)267 | [5GMS3] Rel-17 corrections | BBC | Richard Bradbury |

Decision: Agreed in plenary.

S4-230267 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230044](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230044.zip) | [FS\_5GMS\_EXT] Key Issue on Application Server configuration and management | BBC | Richard Bradbury |

Decision: Revised to 220.

S4-230044 is **revised** to S4-230220.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230051](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230051.zip) | [5MBUSA] Corrections to domain model and procedures | BBC | Richard Bradbury |

Presenter: Richard Bradbury

Online Discussion:

* rev1 presented.
* Thorsten: How are you doing byte range repair?
	+ Richard: Will check
* Thorsten: Ask Thomas to check on byte range file repair.
	+ Thomas: Why is alternative content location out?
	+ Thorsten: Not sure.
	+ Thomas: Byte range should not be excluded. Will check why.
* rev02 is presented
* Frederic: Why stage-3 spec mentioned. This could be detailed in the cover page comments.
* Thorsten: Is the same TMGI used for different locations?
* Richard: We should delete this part in bullet 6.
* Thorsten: What about TMGI allocation for SSM.
* Richard: For SSM, it is done in step 1

Decision: Revised. The revision will go to the plenary.

S4-230051 is **revised** to S4-230379.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230061](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230061.zip) | Corrections to DASH quality metric and QoE configuration and reporting | Lenovo | Hyung-Nam Choi |

Presenter: Hyung-Nam Choi

Online Discussion:

* No comments.

Decision: Agreed.

S4-230061 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230062](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230062.zip) | Corrections to DASH quality metric and QoE configuration and reporting | Lenovo | Hyung-Nam Choi |

Presenter: Hyung-Nam Choi

Online Discussion:

* No comments.

Decision: Agreed.

S4-230062 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230063](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230063.zip) | Corrections to RAN visible QoE configuration and reporting | Lenovo | Hyung-Nam Choi |

Presenter: Hyung-Nam Choi

Online Discussion:

* No comments.

Decision: Revised. The revision will go to the plenary.

S4-230063 is **revised** to 376.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230376](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230376.zip) | Corrections to RAN visible QoE configuration and reporting | Lenovo | Hyung-Nam Choi |

Presenter: Hyung-Nam Choi

Online Discussion:

* No comments

Decision:

S4-230376 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230078](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230078.zip) | [5MBUSA] Updates on MBS Security | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Thomas Stockhammer

Online Discussion:

* Thorsten: I would love to support this proposal. Only the UP mentions MBSSF. It would be good to clarify if CP could also mentions MBSSF.
* Richard: The SA3 spec is wrong. This impacts CT4.
* Thomas: SA2 did this correctly, this should be taken into consideration by CT4.
* Thorsten: SA2 only specifies it for user plane procedures. It would have been good if it did both
* Richard: SA2 has delegated this to SA4. We should specify it. SA2 and SA3 people are here in Athens. We can try to discuss how to sort this out.
* Qi: Even if we leave it to implementation as mentioned in the proposal, we still need an API to support update of keys between the MBSF and MBSTF.
* Chairman: Maybe have concerned delegates in SA2, SA3, and SA4 meet to have some finalization of this
* Thorsten: Final proposal from Thomas is helpful.

Decision: Noted.

S4-230078 is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230079](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230079.zip) | [5MBP3] General Updates and Corrections | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Thomas Stockhammer

Online Discussion:

* \_BBC version presented.
* Thorsten: Thought about non-media related - we need to think about other services. Not sure how this conformance field is set if it is text only.
* Thomas: Yes, we can check
* Thomas: Not sure what the relevance of radioFrequency is with service area information
* Thomas: Table in 5.2.7.1 needs to be still need to be worked on
* Thomas: Will upload revision.

Decision:

S4-230079 is **revised** to S4-230280. The revision is endorsed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230079.zip)280 | [5MBP3] General Updates and Corrections | Qualcomm incorporated | Thomas Stockhammer |

Decision: Endorsed without presentation.

S4-230280 is **endorsed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230101](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230101.zip) | [5MBUSA] Correction of Nmb5 / Nmb10 notification events | Ericsson LM | Thorsten Lohmar |

Presenter: Thorsten Lohmar

Online Discussion:

* r01 presented.
* Thorsten: Richard, did you add the MBS session create in your contribution?
* Richard: No. We are trying to modifying the same clause in both of our contributions
* Chairman: Need to merge these changes.
* r03 presented.
* Thorsten: I think more time is needed.
* Richard: Suggest have an offline to talk it through

Decision: Postponed. Will progress during ad hoc and offline calls.

S4-230101 is **postponed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230165](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230165.zip) | Security mechanisms for MBS traffic | Huawei, HiSilicon | Qi Pan |

Presenter: Qi Pan

Online Discussion:

* Frederic: What do we want to move and not move to the CR?
* Qi: We agree to move the line in the table and remove other parts.
* Richard: It would be also interesting to move the lines about the Multicast Session Security Context.
* Thorsten: The Multicast Session Security Context, it is only for control plane isn’t it?
* Richard: Maybe, we go only with the service announcement changes for now, and note that the rest is still incomplete.

Decision: We agree to add only the line in the table. The rest is noted.

S4-230165 is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230166](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230166.zip) | Clarification on measurement of buffer levels for RVQoE | Huawei, HiSilicon | Qi Pan |

Presenter: Qi Pan

Online Discussion:

* Qi: We can merge this CR with the one from Lenovo (063).

Decision: To be merged with 063 into 376. The revision will go to the plenary.

S4-230166 is **merged** into S4-230376.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230220.zip) | [FS\_5GMS\_EXT] Key Issue on Application Server configuration and management | BBC | Richard Bradbury |

Presenter: Richard Bradbury

Online Discussion:

* Frederic: We need to be explicit. They may also delegate it to SA6.
* Richard: Sending a liaison is the right thing to do. The question is what do we write?
* Frederic: FS\_5GMS\_EXT is Rel-17. You cannot make functional changes to Rel-17 WI. We could use TEI or Rel-18 WI. I would recommend TEI18; FS\_5GMS\_EXT as a work item.

Decision: Revised to 342. The revision will be agreed without presentation and goes to the plenary.

S4-230220 is **revised** to S4-230342.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230220.zip)342 | [FS\_5GMS\_EXT] Key Issue on Application Server configuration and management | BBC | Richard Bradbury |

Decision: Agreed without presentation and goes to the plenary.

S4-230342 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230227](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230227.zip) | [5MBUSA] Corrections and Additions to TS 26.502 | Qualcomm Incorporated, BBC, Ericsson LM | Charles Lo |

Presenter: Charles Lo

Online Discussion:

* Richard: How will you resolve the placeholder?
	+ Charles: If you can think about it.
	+ Richard: I will do a suggestion over email.
* r1\_Ericsson\_BBC\_BBC version presented.
* Richard: Do you need additional fixing?
* Charles: Probably, yes. But we can fix it later.
* Thorsten: For a stage 2 perspective, it is not completed. It is correct but not detailed enough.
* Richard: This is minor, I think we can agree on this one.
* Frederic: One of the proposed change affects in the cover page has to be ticked. And the title should be improved.
* Richard: Title could be “Corrections to MBS architecture and service announcement”.

Decision: Revised to 374. The revision is agreed without presentation and will go to the plenary.

S4-230227 is **revised** to S4-230374.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230227.zip)374 | [5MBUSA] Corrections and Additions to TS 26.502 | Qualcomm Incorporated, BBC, Ericsson LM | Charles Lo |

Decision: Agreed without presentation and will go to the plenary.

S4-230374 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230228](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230228.zip) | [5MBP3] Bug Fixes to TS 26.517 | Qualcomm incorporated | Charles Lo |

Presenter: Charles Lo

Online Discussion:

* Richard: It can be separate CRs, or a combined one. No problem

Decision: Minor correction.

S4-230228 is **revised to 403**

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230403](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230403.zip) | [5MBP3] Bug Fixes to TS 26.517 | Qualcomm incorporated | Charles Lo |

Presenter: Charles Lo

Online Discussion:

* None

Decision: Agreed without presentation in plenary

S4-230403 is **agreed**

.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230229](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230229.zip) | [EVEX] Corrections and Additions to TS 26.531 | Qualcomm incorporated | Charles Lo |

Presenter: Charles Lo

Online Discussion:

* None

Decision: Revised to 273.

S4-230229 is **revised** to S4-230273.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230273](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230273.zip) | [EVEX] Corrections and Additions to TS 26.531 | Qualcomm Incorporated | Charles Lo |

Presenter: Charles Lo

Online Discussion:

* Rev01 is presented
* Richard: Parking the tdoc might be best for now. In 4.6.4, why the data report that is being reported includes the parameters to be reported?
* Charles: Yes, I see it. I missed it.

Decision: Noted. A revision is expected in the future.

S4-230273 is **noted**.

## 8.6 SR\_MSE (Split Rendering Media Service Enabler)

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230133](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230133.zip) | [SR\_MSE] Harmonizing the SR reference architectures | Qualcomm Korea | Imed Bouazizi |

Presenter: Imed Bouazizi

Online Discussion:

* Waqar: There are some acronyms that are hard to understand.
* Iraj: Lets discuss in offline meeting
* Chairman: Is this a CR?
	+ Imed: It is a pCR.
	+ Chairman: Please add pseudo in title
* Parked for offline

Decision: Merged into 341

S4-230133 is **merged** into S4-230341.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230134](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230134.zip) | [SR\_MSE] Considerations for SR API | Qualcomm Korea | Imed Bouazizi |

Presenter: Imed Bouazizi

Online Discussion:

* Iraj: If SRC has control of split rendering, shall the application be aware of it? What type of interaction with application?
* Imed: Split rendering cannot just be transparent to the application
* Iraj: Maybe we need a simple use case, and look at provisioning details
* Gayle: Can you elaborate on QoE metric measurements?
* Imed: I am happy to remove it. Maybe there is value where the application passes through M8.
* Pushed for offline discussion

Decision: Revised to 360.

S4-230134 is **revised** to S4-230360.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230134.zip)360 | [SR\_MSE] Considerations for SR API | Qualcomm Korea | Imed Bouazizi |

Presenter: Imed Bouazizi

Online Discussion:

* No comments.

Decision: Agreed.

S4-230360 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230137](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230137.zip) | [SR\_MSE] glTF as a description format for pre-rendered content | Qualcomm Korea | Imed Bouazizi |

Presenter: Imed Bouazizi

Online Discussion:

* Ahmed: Why do we need a scene description for this? What is the role of glTF in this process?
* Imed: We need a format that can work on all these setups
* Saba: Is SDP considered? Do not understand what you mean by format shall be able to use WebRTC for transport?
* Imed: yeah, maybe not stated correctly, but that works for the requirements
* Stefan: Does glTF have real time capabilities built in?
* Imed: glTF is used to describe 3D scenes, can also describe 2D scenes. There are extensions to describe RTP streams
* Thomas: Why do you want the setup to be streamable?. Content yes, but why setup?
* Iraj: For a thin client in MECAR, will glTF be an option?
* Imed: yes
* Saba: Is the proposal to use datachannel to send glTF?
* Thomas: glTF is a candidate. We can evaluate other formats, for example SDP
* Chairman: Requirements in clause 3 may be agreeable.
* Saba: Can we rephrase the last bullet point about WebRTC transport?
* Chairman (online edit): Last sentence of clause 3 edited to: “[The description format shall be able to reference WebRTC sources]”
* Chairman: Clause 3 requirements are agreeable with update to last bullet as described above. Clause 4 is not agreeable

Decision: Revised based on above chairman edit, and the revision is agreed without presentation.

S4-230137 is **revised** to S4-230296.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230137.zip)296 | [SR\_MSE] glTF as a description format for pre-rendered content | Qualcomm Korea | Imed Bouazizi |

Decision: Agreed without presentation.

S4-230296 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230138](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230138.zip) | [SR\_MSE] Split Rendering Configuration Information | Qualcomm Korea | Imed Bouazizi |

Presenter: Imed Bouazizi

Online Discussion:

* Imed: We should support not just OpenXR, but other run times as well
* Chairman: Clauses 2.1 and 2.2 are agreed. Clause 2.3 is not part of the agreement.

Decision:8 Partially agreed. Clauses 2.1 and 2.2 are agreed. Clause 2.3 is not part of the agreement.

S4-230138 is **agreed partially** (clauses 2.1 and 2.2).

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230160](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230160.zip) | [SR\_MSE] Consolidating the reference architectures | Tencent Cloud | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* Imed: We have a similar contribution. Will be good to merge them. Do not have immediate comments, but would like to use offline to get some agreements
* Parked for offline meeting

Decision: Merged into 341

S4-230160 is **merged** into S4-230341.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230161](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230161.zip) | [SR\_MSE] Updating the call flows | Tencent Cloud | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* No comments. Parked for offline discussion.

Decision: Merged into 341

S4-230161 is **merged** into S4-230341.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230162](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230162.zip) | [SR\_MSE] Split Rendering APIs | Tencent Cloud | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* Imed: This a big question - where do you define RTC stage-3. I believe we need these reference points in this contributio, but in stage-3. The first sections are good. To me, they belong stage-3 in RTC (stage-3 of GA4RTAR). I doubt Split rendering MSE will define them here.
* Iraj: For iRTC cases, it makes sense to define there. What about all other applications?
* Emanualle: Share the same sentiment. Not understand about default protocols where you mention about MECAR.
* Iraj: We need to define the formats, hence added MECAR.
* Emmanuel: If we define JSON object in MECAR and API in other. It is weird.
* Iraj: Fine to remove the sentence
* Pushed for offline discussion

Decision: Merged into 341

S4-230162 is **merged** into S4-230341.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230162.zip)341 | CR on Harmonizing the SR reference architectures | Qualcomm | Imed Bouazizi |

Presenter: Imed Bouazizi

Online Discussion:

* rev01 is presented
* Iraj: SRF should be SRS.
* Waqar: You still have to integrate 373.
* Imed: It will be done after.

Decision: Agreed.

S4-230341 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230188](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230188.zip) | Correction for XR framework reference and privacy for TS 26.565 | Apple | Waqar Zia |

Presenter: Waqar Zia

Online Discussion:

* r01 is presented
* Thomas: On the user privacy, adding editor’s note is simple. But I do not understand. We have sensors, but it is not specific to split rendering. Not sure what we actionable to do based on this editor’s note
	+ Waqar: For remaining applications, security aspects are well documented. For this domain, we are building new functions/interfaces. There might be things that need to be addressed here.
	+ Thomas: Understand data plane security. We need to understand what we do for security based on editor’s note
	+ Waqar: 5G is just transport. It just doesn’t tell us security
	+ Iraj: Are you talking about security of applications running on edge server, or security of communication?
	+ Waqar: Both
	+ Iraj: Understand. But it is for all applications, not just split rendering
	+ Waqar: For download streaming, if you are using DASH, security aspects are well documented. Not clear with this
	+ Imed: For transport security, we are already addressing them on signaling and media side. What is concerning is privacy. The server will see what you see.
	+ Chairman: We should probably make an obvious statement in the TS that the AS is a trusted function.
	+ Thorsten: Suggestion to make a separate clause on “security considerations”
	+ Chairman: Agree to include a new clause for security and privacy aspects
* Thomas: We have an agreement to use OpenXR. Why are we removing OpenXR references?
	+ Waqar: Tried to improve it on visual formats. Not intending to remove OpenXR, but it is unclear at the moment
	+ Imed: This was meant as a place holder. But ultimately will say annex x.y.z in MECAR. Fine as long as we make sure it works with OpenXR.
	+ Gayle: We follow a canvas based on OpenXR.
	+ Chairman:Can we agree to mention OpenXR only in editor notes? I.e. we do not mention references of OpenXR
	+ Thomas: Contribution talks about “quad”. If you need details about quad, you go and see OpenXR. Thats why we need the reference to OpenXR
	+ Chairman: Will Apple object to include OpenXR in MECAR?
	+ Waqar: Not really. It is fine to reference as an example
	+ Thomas: Why do we define quad here independently without OpenXR? We are the people not understanding the details here. We just need a reference to OpenXR
	+ Chairman: Is OpenXR just a canvas, or include it as a reference?
	+ Imed: We agreed that OpenXR has a preference as a reference
	+ Thomas: OpenXR is not a runtime, but an API. The conformance point is OpenXR API component
	+ Waqar: Can we remove OpenXR reference, but instead add a note
	+ Chairman (online edit): Add a editor’s note: “the above formats will be specified and referenced in TS 26.119 (MECAR). It is assumed that these will, by default, conform to Khronos Open XR clause 10.4.5 [xx] ”
	+ Imed: Can we keep the first sentence and not remove it?
	+ Waqar: Can we park this and discuss offline
	+ Stefan: There are audio references in the clause, but included is text about OpenXR
	+ Chairman: parked for offline discussion

 Decision: Revised to 373.

S4-230188 is **revised** to S4-230373.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230188.zip)373 | Correction for XR framework reference and privacy for TS 26.565 | Apple | Waqar Zia |

Presenter: Waqar Zia

Online Discussion:

* No comments

 Decision: Agreed. The editor will take it into account in the new TS.

S4-230373 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230188.zip)291 | TS 26.565 | Apple | Waqar Zia |

Decision: Goes to the plenary.

S4-230291 goes to the plenary.

## 8.7 5GMS\_Ph2 (5G Media Streaming Architecture Phase2)

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230043](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230043.zip) | [5GMS\_Ph2] Discussion on 5GMS M3 Application Server configuration API | BBC | Richard Bradbury |

Presenter: Richard Bradbury

Online Discussion:

* Iraj: It only impacts 26.804 and not 26.501?
	+ Richard: Yes. It is only proposed as a study.
	+ Iraj: Maybe we need a new WI?
	+ Thomas: We could update 5GMS phase 2 WI. 26.804 should be a permanent key issue tracker.
* Frederic: The baseline proposal seems agreeable.
* Thomas: If we update the WI. The WI needs to add the CT4 (Point 4.b). We need to inform them in this stage 2 that they will be impacted.
	+ Frederic: This will have to be done in June.
* Frederic: So, we agree on 1, 2 and 3. 4 is agreed in principle but we will have to check the WI. We will not start stage 3 before stage 2 is completed. We can prepare the stage 3 work item but this will progress after stage 2 completion.

Decision: Agreed. WI will have to be checked.

S4-230043 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230045](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230045.zip) | [5GMS\_Ph2] Discussion on Service URLs and Media Session Handler launching | BBC | Richard Bradbury |

Presenter: Richard Bradbury

Online Discussion:

* Thomas: Similar work in 087.
* 087 is discussed and agreed as basis for further work

Decision: Noted.

S4-230045 is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230080](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230080.zip) | [5GMSA\_Ph2] End-to-end low latency live streaming | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Thomas Stockhammer

 Online Discussion:

* rev2 presented.
* Richard: Picture showing cardinality would be useful.
* Thorsten: Why does this service description arrive in step 12? It is only one deployment option.
	+ Thomas: The low latency indication is part of the MPD. You only operate on available information. But we can indeed have variants.
* Frederic: Can we use it as the basis for further work?
* Iraj: I take 2 action points:
	+ Correct Media Entry point to only include the pointer to document and not the document itself
	+ Define the cardinality of service operation points wrt to one or more multiple media entry points.

Decision: Revised to 287. 287 will go to the plenary.

S4-230080 is **revised** to S4-230287.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230081](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230081.zip) | [5GMSA\_Ph2] 5GMS over 5MBS | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Thomas Stockhammer

Online Discussion:

* \_Ericsson version presented

Decision: Revised and the revision will be endorsed without presentation.

S4-230081 is **revised** to S4-230288.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230081.zip)288 | [5GMSA\_Ph2] 5GMS over 5MBS | Qualcomm incorporated | Thomas Stockhammer |

Decision: Endorsed without presentation.

S4-230288 is **endorsed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230082](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230082.zip) | [5GMSA\_Ph2] Downlink Streaming to Media Players with Different Manifests | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Thomas Stockhammer

 Online Discussion:

* \_BBC version presented.
* Thomas: There is a CRs overlap to be fixed.
* Richard: IS step 8 a mandatory step?
	+ Thomas: No.
* Iraj: I added a sentence explaining the word “equivalent”. When content hosting is configured, is it for all manifests?
	+ Thomas: This is a stage 3 question.
	+ Iraj: If it is only for CMAF, we don’t have an issue but if we want to be more flexible, this will have to be solved.

Decision: Revised to 289. 289 will go to the plenary.

S4-230082 is **revised** to S4-230289.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230289](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230289.zip) | [5GMSA\_Ph2] Downlink Streaming to Media Players with Different Manifests | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Thomas Stockhammer

 Online Discussion:

* No comments

Decision: Revised to 400. 400 is agreed without presentation and will go to plenary

S4-230289 is revised .

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230099](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230099.zip) | Correction of metrics reporting for eMBMS | Ericsson LM | Gunnar Heikkilä |

Presenter: Gunnar Heikkilä

Online Discussion:

* Thomas: I am lost on the cover page. This is not part of 5GMS\_Ph2. It might be a previous release correction. Adding RAN-based metric is not part of the WI.
	+ Gunnar: It could be part of another WI, maybe linked to a RAN WI.

Decision: Revised to 295&297

S4-230099 is **revised** to S4-230295 and S4-230297.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230099.zip)295 | Correction of metrics reporting for eMBMS (Rel-17) | Ericsson LM | Gunnar Heikkilä |

Presenter: Gunnar Heikkilä

Online Discussion:

* Gunnar: Agenda Item has to be changed.

Decision: Revised to 348. The revision will go to the plenary.

S4-230295 is **revised** to S4-230348.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230099.zip)297 | Correction of metrics reporting for eMBMS (Rel-18) | Ericsson LM | Gunnar Heikkilä |

Presenter: Gunnar Heikkilä

Online Discussion:

* Gunnar: Agenda Item has to be changed.

Decision: Revised to 350. The revision will go to the plenary.

S4-230297 is **revised** to S4-230350.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230152](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230152.zip) | [5GMS\_PH2] Uplink, remote-control-general description | Tencent Cloud | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* Thomas: Good to go this way forward

Decision: Agreed.

S4-230152 is **agreed**

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230153](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230153.zip) | [5GMS\_Ph2] Uplink, remote control- procedure | Tencent Cloud | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* rev01 is presented
* Step 9 of Figure 6.6-1 should be a dashed line.
* Richard: Step 10 description should say “... according to M6 ”
* Richard: Could it be M7 as well in addition to M6
	+ Iraj: Yes
	+ Thomas: It is not impacting M7
	+ Richard: It is “invoking M7” not “impacting M7”
	+ Iraj: Yes. No change of M6 or M7 APIs
* To be revised

Decision: Revised to 327. 327 will go to the plenary.

S4-230153 is **revised** to S4-230327.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230327](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230327.zip) | [5GMS\_Ph2] Uplink, remote control- procedure | Tencent Cloud | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* Richard: Thought we will explicitly mention M6 and M7
* Iraj: Some call flows in 501 mention them and some do not mention. Maybe I can submit one where it is mentioned everywhere.

Decision: Agreed

S4-230327 is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230154](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230154.zip) | [5GMSA-PH2] Uplink remote control, fixing Annex A | Tencent Cloud | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* No comments

Decision:- Agreed.

S4-230154 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230155](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230155.zip) | [5GMS\_Ph2] Downlink Streaming to Media Players with Different Manifests: minor refinements | Tencent | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* None

Decision: Merged with 082 in 289.

S4-230155 is **merged** into S4-230289.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230157](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230157.zip) | [5GMS\_Ph2] End-to-end low latency live streaming: new refinements | Tencent | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* Thomas: Recognize the artefact, didn’t want to remove because it impacts older release
* Richard: This particular sequence has nothing to do with progressive download.
* Iraj: We need to decide if it is a document or just a pointer as indicated by Thorsten
* Iraj: What is the cardinality between the service operation point and one or more manifests?
* Frederic: There is a need for clarification.
* Use 080 as basis for further work
* Action point:

Decision: Noted.

S4-230157 is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230200](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230200.zip) | [5GMS\_Ph2] UE data processing for AF-based NA | Sony Europe B.V. | Paul Szucs |

Presenter: Paul Szucs

Online Discussion:

* Contribution with Richard’s comments is presented
* Paul: For QoE, Note 2 and Note 3 applies for “Count” aggregation.
* Richard: The intention of Note 2 only applies to Consumption.

Decision: Revised.

S4-230200 is **revised** to S4-230331.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-2302](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230200.zip)331 | [5GMS\_Ph2] UE data processing for AF-based NA | Sony Europe B.V. | Paul Szucs |

Presenter: Paul Szucs

Online Discussion:

* No comments

Decision: Agreed.

S4-230331 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230243](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230243.zip) | [5GMS\_Ph2] Data collection for ANBR-based NA | Sony Europe B.V. | Paul Szucs |

Presenter: Paul Szucs

Online Discussion:

* Paul: Richard provided feedback over email.
* Richard: Why don’t you also modify the new arrow?
* Paul: I forgot. I will produce something for the washup.

Decision: Revised to 323. 323 will go to the plenary.

S4-230243 is **revised** to S4-230323.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230323](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230323.zip) | [5GMS\_Ph2] Data collection for ANBR-based NA | Sony Europe B.V. | Paul Szucs |

Presenter: Paul Szucs

Online Discussion:

* No comments

Decision: Endorsed as a basis for further work

S4-230323 is endorsed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230244](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230244.zip) | [5GMS\_Ph2] Event exposure use case NA | Sony Europe B.V. | Paul Szucs |

Presenter: Paul Szucs

Online Discussion:

* Richard: The text is fine. But we need to be careful of the implications.
* Paul: There are a lot of implications with this. But we are not under pressure to do it immediately.
* Thomas: I am worried about the process. Is this a correction or a new feature? If it is a nex feature, we had to add in 5GMS\_Ph2 objectives.
* Paul: We will need to revise the WID. There are impacts on CT3/4 in stage 3.
* Frederic: This will have to be added in 284.
* Paul: I will discuss with Richard and provide objectives and impacts to Iraj.

Decision: Merged with 243 in 323.

S4-230244 is **merged** into S4-230323.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230244.zip)284 | New WID on 5G Media Streaming Architecture Phase 2 | Tencent | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* Richard: It is probably better to remove what is between brackets.
* Paul: Can you add Sony in the supporters.

Decision: Revised to 380. Revision will go to the plenary.

S4-230284 is **revised** to S4-230380.

## 8.8 5GMS\_Audio\_Ph2 (5G Media Streaming Audio codec phase 2 for 5G-Advanced)

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230111](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230111.zip) | Introduction of xHE-AAC stereo audio operation point | Dolby Laboratories Inc., Fraunhofer IIS, VoiceAge Corporation, Samsung Electronics Co., Ltd, Philips International B.V., ETRI, Qualcomm incorporated, Panasonic Holdings Corporation, Nokia Corporation, Orange, Tencent | Frederic Gabin |

Presenter: Frederic Gabin

Online Discussion:

* rev04 is presented
* No comments after online session

Decision: Agreed.

S4-230111 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230112](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230112.zip) | Upgrade of audio profiles for 5G-Advanced | Dolby Laboratories Inc., Fraunhofer IIS, VoiceAge Corporation, Samsung Electronics Co., Ltd, Philips International B.V., ETRI, Qualcomm incorporated, Panasonic Holdings Corporation, Nokia Corporation, Orange, Tencent | Frederic Gabin |

Presenter: Frederic Gabin

Online Discussion:

* rev01 is presented
* Wenruo: Need more time to think about this. For moment, we do not see need for interoperability
* Fabrice: Can you check with some of the clauses? Can discuss offline.
* Thomas: More information on the reason for change will be helpful.
* Wenruo: Huawei agreed after having checked.
* Frederic: I still need to check the clause numbering.

Decision: Revised to 381. The revision will be agreed without presentation and goes to the plenary.

S4-230112 is **revised** to S4-230381.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230112.zip)381 | Upgrade of audio profiles for 5G-Advanced | Dolby Laboratories Inc., Fraunhofer IIS, VoiceAge Corporation, Samsung Electronics Co., Ltd, Philips International B.V., ETRI, Qualcomm incorporated, Panasonic Holdings Corporation, Nokia Corporation, Orange, Tencent | Frederic Gabin |

Decision: Agreed without presentation and goes to the plenary.

S4-230381 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230113](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230113.zip) | Discussion on 5GMS Audio codec requirements for 5G-Advanced | Dolby Laboratories Inc., Fraunhofer IIS, VoiceAge Corporation, Samsung Electronics Co., Ltd, Philips International B.V., ETRI, Qualcomm incorporated, Panasonic Holdings Corporation, Nokia Corporation, Orange, Tencent | Frederic Gabin |

Decision: Noted.

S4-230113 is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230209](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230209.zip) | 5GMS Audio Codec Review in 26.511 | Apple, Huawei, Xiaomi, Google | Fabrice Plante |

Decision: Noted.

S4-230209 is **noted**.

## 8.9 FS\_SmarTAR (Feasibility Study on Smartly Tethering AR Glasses)

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230083](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230083.zip) | [FS\_SmarTAR] Proposed Updated Work Plan | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Ma Liangping

Online Discussion:

* Frederic: We agreed different dates for Ad Hoc relics (9th, 16th and 30th March).
* Liangping: OK. I will change the dates.

Decision: Revised to 352

S4-230083 is **revised** to SA-230352.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230083.zip)352 | [FS\_SmarTAR] Proposed Updated Work Plan | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Ma Liangping

Online Discussion:

* No comments

Decision: Agreed. Will go to the plenary.

S4-230352 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230084](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230084.zip) | [FS\_SmarTAR] Editor's Proposed Update of TR 26.806 | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Ma Liangping

Online Discussion:

* Frederic: New agreed contributions will have to be added.

Decision: Revised to 362.

S4-230084 is **revised** to S4-230362.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230084.zip)362 | [FS\_SmarTAR] Editor's Proposed Update of TR 26.806 | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Ma Liangping

Online Discussion:

* Shane: OK, it is good.

Decision: Agreed to use this as basis for further work.

S4-230362 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230353](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230353.zip) | [FS\_SmarTAR] Editor's Proposed Update of TR 26.806 | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Ma Liangping

Decision: create TR 26.802v1.1.0

S4-230353 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230085](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230085.zip) | [FS\_SmarTAR] Key Issue #4: Formats and Connectivity of Tethered Glass | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Ma Liangping

Online Discussion:

* None

Decision: Agreed.

S4-230085 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230086](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230086.zip) | [FS\_SmarTAR] Key Issue #5: Compute distribution across UE and network for tethered glasses | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Ma Liangping

Online Discussion:

* No comments

Decision: Agreed.

S4-230086 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230168](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230168.zip) | [FS\_SmarTAR] Latency Measurement and Reporting | Qualcomm Technologies Ireland | Ma Liangping |

Presenter: Ma Liangping

Online Discussion:

* Regarding change 2, it is probably better to move the 1st paragraph just before the figure.
* Shane: I have a general concern on the CR. On the cover page, we don’t see some reasons for changes.
* Linangping: It is explained in the 1st paragraph.
* Shane: It would have been good to provide directly the comments in the document and not via a link. And in change 2, modifications are not included as revision marks.
* Liangping: The blue content is a new content.
* Frederic: The recommendation is to use a revision mark.
* Shane: I need more time to check this late CR.
* Frederic: Ok, it will be addressed during a telco.

Decision: Postponed.

S4-230168 is postponed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230173](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230173.zip) | [FS\_SmarTAR] Overhead reduction for In-band Latency Measurement | Qualcomm Technologies Ireland | Ma Liangping |

Presenter: Ma Liangping

Online Discussion:

* None.

Decision: Agreed.

S4-230173 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230187](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230187.zip) | [FS\_SmarTAR] Key Issue #6: Usage of PIN for Tethered Glasses | Nokia France | Xuan (Shane) He |

Presenter: Xuan (Shane) He

Online Discussion:

* Liangping: I think there is a mistake in 6.2.2. The AR glasses cannot talk directly to the Uu interface.
* Shane: I can provide a revision.
* Frederic: It should be PC5 and not Uu. The editor will manage this change.

Decision: Agreed. The editor will have to replace Uu by PC5 in clause 6.2.2.

S4-230187 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230240](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230240.zip) | [FS\_SmarTAR]Proposed updates to 4.3 PIN elements | Nokia France | Xuan (Shane) He |

Presenter: Xuan (Shane) He

Online Discussion:

* Liangping: You reference 26.998. We started with this architecture. Since then we have changed quite a bit. It would be better to use the architecture of the SmartAR (26.806 clause 4).
* Shane: OK, no problem.
* Frederic: If it is the only change, it will be managed by the editor.

Decision: Agreed. The editor wil reference clause 4 of current TR instead of 26.998 in the text

S4-230240 is **agreed**.

## 8.10 FS\_MS\_NS\_Ph2 (Study on Media Streaming aspects of Network Slicing Phase 2)

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230167](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230167.zip) | Clarification on traffic migration to different network slices | Huawei, HiSilicon | Qi Pan |

Presenter: Qi Pan

Online Discussion:

* r03\_BBC version presented.
* Frederic: Is this description of the transfer, do we transfer only because of the unavailability?
* Qi: Yes.

Decision: Revised to 333. The revision will be agreed without presentation.

S4-230167 is **revised** to S4-230333.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230167.zip)333 | Clarification on traffic migration to different network slices | Huawei, HiSilicon | Qi Pan |

Decision: Agreed without presentation.

S4-230333 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230249](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230249.zip) | [FS\_MS\_NS\_Ph2] Network Slice Service Continuity | Samsung Research America | Prakash Kolan |

Presenter: Prakash Kolan

Online Discussion:

* r04 presented.
* No comments.

Decision: Revised to 336. Revision is agreed without presentation.

S4-230249 is **revised** to S4-230336.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230249.zip)336 | [FS\_MS\_NS\_Ph2] Network Slice Service Continuity | Samsung Research America | Prakash Kolan |

Decision: Agreed without presentation.

S4-230336 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230250](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230250.zip) | [FS\_MS\_NS\_Ph2] Use cases for Network Slicing and Architecture Assumptions | Samsung Research America | Prakash Kolan |

Presenter: Prakash Kolan

Online Discussion:

* r03 presented.
* No comments.

Decision: Revised to 337. Revision is agreed without presentation.

S4-230250 is **revised** to S4-230337.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230250.zip)337 | [FS\_MS\_NS\_Ph2] Use cases for Network Slicing and Architecture Assumptions | Samsung Research America | Prakash Kolan |

Decision: Agreed without presentation.

S4-230337 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230251](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230251.zip) | [FS\_MS\_NS\_Ph2] Key Issues on service provisioning and dynamic policy | Samsung Research America | Prakash Kolan |

Presenter: Prakash Kolan

Online Discussion:

* r03 presented.
* No comments.

Decision: Revised to 338. The revision will be agreed without presentation.

S4-230251 is **revised** to S4-230338.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230251.zip)338 | [FS\_MS\_NS\_Ph2] Key Issues on service provisioning and dynamic policy | Samsung Research America | Prakash Kolan |

Decision: Agreed without presentation.

S4-230338 is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230252](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230252.zip) | [FS\_MS\_NS\_Ph2] Key Issue on Slice selection for M5 requests | Samsung Research America | Prakash Kolan |

Presenter: Prakash Kolan

Online Discussion:

* None.

Decision: Noted.

S4-230252 is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230253](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230253.zip) | [FS\_MS\_NS\_Ph2] Candidate Solution for Key Issue #1: Service Provisioning | Samsung Research America | Prakash Kolan |

Presenter: Prakash Kolan

Online Discussion:

* None.

Decision: Noted.

S4-230253 is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230255](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230255.zip) | Draft TR 26.941 v0.4.0 | Samsung Research America | Prakash Kolan |

Presenter: Prakash Kolan

Online Discussion:

* None.

Decision: Revised to 339. 339 will go to the plenary.

S4-230255 is **revised** to S4-230339.

|  |  |  |  |
| --- | --- | --- | --- |
| S4-230256 | [FS\_MS\_NS\_Ph2] Proposed Updated Time and Work Plan | Samsung Research America | Prakash Kolan |

Presenter: Prakash Kolan

Online Discussion:

* Frederic: What was the original plan?
* Prakash: Send for information in March, now it is planned for November.
* Frederic: In this case, if it is stage 2, it will be release 19.
* Richard: Let's see where we are with rel 18 planning.

Decision: Agreed and goes to the plenary.

S4-230256 is **agreed**.

## 8.11 New Work / New Work Items and Study Items

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230088](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230088.zip) | Draft WID for 5G Media Streaming Protocols Phase 2 | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Thomas Stockhammer

Online Discussion:

* Iraj: There is a lot of overlap with my proposal. Where bullet 4) is coming from?
* Thomas: Background Data Transfer (BDT) is coming from 26.804.
* Iraj: We did not do much of stage-2.
* Thomas: It is stage-3. I included only items with normative recommendations.
* Iraj: I would like to check in 804 during this meeting if we are missing something.
* Thomas: If one item is not supported by a company, I will remove it in the revision.

Decision: Revised to 279. 279 will go to the plenary.

S4-230088 is **revised** to S4-230279.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230216](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230216.zip) | 5G Media Streaming Architecture Phase 3 | Tencent Cloud | Iraj Sodagar |

Presenter: Iraj Sodagar

Online Discussion:

* Iraj: I should have removed Architecture in the WID title.
* Frederic: It should be stage 3 phase 2 (=rel-18).
* Iraj: WID will have to be completed at the next meeting. We can agree at this meeting and modify it later or agree at the next meeting.
* Thomas: In clause 8, we can remove impacts on the architecture.
	+ Iraj: You are right.
* Frederic: We need to refer to specification (26.501 or 26.804) and not work item code (5GMS\_Ph2).
* Richard: It would be great to have a joint proposal (Qualcomm and Tencent) for this meeting using the Qualcomm proposal as a basis.
* Frederic: On the planning, I prefer to complete stage 2 before beginning stage 3. Even if we start in June we will still have 9 months to complete stage 3.
* Iraj: I will provide a revision on the Qualcomm proposal.

Decision: Merged into 279.

S4-230216 is **merged** into S4-230279

## 8.12 Others including TEI

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230087](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230087.zip) | 3GPP Service and URL Handler | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Thomas Stockhammer

Online Discussion:

* Richard: This is good. It is useful to have separate portal application and service application and invoke 5G media streaming.
* Chairman: This is work in progress
* Thomas: Will work on revision and submit as a CR
* Julien: Can we call it as a non 5GMS application instead of portal application?
* Chairman: Will look at this during washup

Decision: Revised.

S4-230087 is **revised** to S4-230283.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230087.zip)283 | 3GPP Service and URL Handler | Qualcomm incorporated | Thomas Stockhammer |

Presenter: Richard Bradbury

Online Discussion:

* rev04 is presented
* No comments

Decision: Is agreeable. Will be revised. The revision will be agreed without presentation and goes to the plenary.

S4-230283 is **revised** to S4-230402.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230171](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230171.zip) | [TEI17, AE\_enTV-S4] Support of ETSI TS 103 720 second version | Qualcomm Europe Inc. Sweden | Thomas Stockhammer |

Presenter: Thomas Stockhammer

Online Discussion:

* No comments

Decision: Agreed and goes to the plenary.

S4-230171 is **agreed in MBS SWG, but revised in plenary to 404**

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230404](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230404.zip) | [TEI17, AE\_enTV-S4] Support of ETSI TS 103 720 second version | Qualcomm Europe Inc. Sweden | Thomas Stockhammer |

Presenter: Thomas Stockhammer

Online Discussion:

Decision: Agreed.

S4-230404 is

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-230230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230230.zip) | Regarding EVEX Support for non-Human Consumption oriented Application Services | Qualcomm Incorporated | Charles Lo |

 Presenter: Charles Lo replaced by Imed Bouazizi

Online Discussion:

* Richard: It is difficult to exchange this during such meetings with limited time. It will be better to address this in ad hoc.

Decision: Noted. To be addressed in an ad hoc meeting.

S4-230230 is **noted**.

## 8.13 Review of the future work plan (next meeting dates, hosts)

## 8.14 Any Other Business

### 8.14.1 Input documents

### 8.14.2 Report

### 8.14.3 Summary from Offline Discussions

### 8.14.4 Output documents

## 8.15 Close of the session

The chairman thanked the participants and the minute takers. The participants thanked the chairman.

The online session was closed on February 23, 2023 at 9:31 (CET).

## 8.16 Attendees

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | F2f | Virtual |
| Mr. | Achter | Johannes | Deutsche Telekom AG |   |   |
| Dr. | Ahsan | Saba | Nokia Corporation |   |   |
| Mr. | Andrivon | Pierre | Beijing Xiaomi Mobile Software |   |   |
| Mr. | Ani Simi | Gokul Sani | ORS |   |   |
| Mr. | Aracena | Mauricio | Ericsson LM |   |   |
| Mr. | Baek | Youngkyo | Samsung R&D Institute UK |   |   |
| Mr. | BASAIER | JIALADE | China Unicom |   |   |
| Mr. | BAUDUIN | BAUDUIN | Orange |   |   |
| Dr. | Belling | Thomas | Nokia Germany |   |   |
| Dr. | Bouazizi | Imed | Qualcomm Incorporated |  Y |   |
| Dr. | Bradbury | Richard | BBC |  Y |   |
| Mrs. | Brekalo | Andrijana | ETSI |   |   |
| Dr. | Bruhn | Stefan | Dolby Sweden AB |   |   |
| Mr. | Burdinat | Christophe | ATEME |   |   |
| Mr. | Burman | Bo | Ericsson LM |   |   |
| Dr. | Cetinkaya | Egemen | Verizon UK Ltd |   |   |
| Mr. | Champel | Mary-Luc | Beijing Xiaomi Mobile Software |   |   |
| Dr. | CHAOUB | Abdelaali | Nokia France |   |   |
| Dr. | Chen | Lulin | MediaTek Inc. |   |   |
| Mr. | Cheng | Hong | Qualcomm Incorporated |   |   |
| Mr. | Choi | Hyung-Nam | Motorola Mobility UK Ltd. |   |   |
| Miss | chong | vivian | VIVO TECH GmbH |   |   |
| Mr. | Chuangxin | Jiang | ZTE Corporation |   |   |
| Dr. | Curcio | Igor | Nokia Corporation |   |   |
| Mr. | Dawes | Peter | VODAFONE Group Plc |   |   |
| Mr. | Dawkins | Spencer | Tencent |   |   |
| Mr. | Defrance | Serge | InterDigital France R&D, SAS |   |   |
| Mr. | Doehla | Stefan | Fraunhofer IIS |   |   |
| Dr. | Dong | Hao | ZTE Corporation |   |   |
| Dr. | Ehara | Hiroyuki | Panasonic Holdings Corporation |   |   |
| Miss | Eitoku | Haruka | NTT corporation |   |   |
| Dr. | El Essaili | Ali | Ericsson GmbH, Eurolab |   |   |
| Dr. | Escott | Adrian | Qualcomm CDMA Technologies |   |   |
| Mr. | Evans | Tim P. | VODAFONE Group Plc |   |   |
| Mr. | Fontaine | Loic | InterDigital France R&D, SAS |   |   |
| Mr. | Foti | George | Ericsson LM |   |   |
| Ing. | Fotopoulou | Eleni | Fraunhofer IIS |   |   |
| Mr. | Gabin | Frederic | Dolby Laboratories Inc. |  Y |   |
| Mrs. | Gao | Fei | China Mobile Com. Corporation |   |   |
| Mr. | Gao | Shuai | China Unicom |   |   |
| Mr. | Gao | Yuan | Huawei Technologies France |   |   |
| Mr. | Gasparyan | Vanand | Google Inc. |   |   |
| Mr. | Gibellino | Diego | TELECOM ITALIA S.p.A. |   |   |
| Dr. | Gierlich | Hans Wilhelm | HEAD acoustics GmbH |   |   |
| Dr. | Giust | Fabio | Nokia Germany |   |   |
| Mrs. | Godoy | Gabriela | SDI Squared |   |   |
| Miss | Gonzalez | Veronica | VODAFONE Group Plc |   |   |
| Dr. | Gorley | Paul | BBC |   |   |
| Mr. | Gu | Xiaojun | HUAWEI TECHNOLOGIES Co. Ltd. |   |   |
| Mr. | Gudumasu | Srinivas | InterDigital Communications |   |   |
| Mr. | Gül | Serhan | Nokia Germany |   |   |
| Mr. | Gunkel | Simon | TNO |   |   |
| Dr. | Hamza | Ahmed | InterDigital Communications |   |   |
| Dr. | Han | Tao | China Telecom Corporation Ltd. |   |   |
| Mr. | Harada | Noboru | NTT |   |   |
| Mr. | Harper | Colby | Pivotal Commware |   |   |
| Dr. | He | Xuan (Shane) | Nokia Germany |  Y |   |
| Dr. | He | Yong | Qualcomm Incorporated |   |   |
| Mr. | Hedman | Peter | Ericsson LM |   |   |
| Mr. | Heikkilä | Gunnar | Ericsson LM |  Y |   |
| Dr. | Hellge | Cornelius | Fraunhofer HHI |   |   |
| Mr. | Hietalahti | Hannu | Nokia Corporation |   |   |
| Dr. | Holub | Jan | Mesaqin.com s.r.o (Ltd.) |   |   |
| Mr. | Howells | Elfed | Huawei Technologies R&D UK |   |   |
| Dr. | Hu | James | AT&T GNS Belgium SPRL |   |   |
| Miss | Hu | Xiaokun | HuaWei Technologies Co., Ltd |   |   |
| Mr. | Inoue | Yoshihiro | NTT |   |   |
| Mr. | Jansson Toftgård | Tomas | Ericsson LM |   |   |
| Dr. | Jelinek | Milan | VoiceAge Corporation |   |   |
| Miss | Jerichow | Anja | Nokia Germany |   |   |
| Ms. | Ji | Mengdi | Huawei Technologies France |   |   |
| Dr. | Jung | Kyunghun | Meta Ireland |   |   |
| Ms. | Kang | Yanchao | vivo Mobile Communication Co., |   |   |
| Miss | ke | xiaowan | vivo Mobile Communication Co., |   |   |
| Miss | Kedalagudde | Meghashree D | Intel Deutschland GmbH |   |   |
| Ms. | Kim | DongYeon | Samsung R&D Institute UK |   |   |
| Dr. | Kim | Hongil | Qualcomm Incorporated |   |   |
| Dr. | Kolan | Prakash | Samsung Research America |   |   |
| Mr. | Kolekar | Abhijeet | Intel Corporation (UK) Ltd |   |   |
| Dr. | Koza | Yvette | ZTE Wistron Telecom AB |   |   |
| Dr. | Kweon | Kisuk | Samsung Electronics Co., Ltd |   |   |
| Mr. | Kwon | WooSuk | LG Electronics Inc. |   |  Y |
| Mr. | Laaksonen | Lasse | Nokia Corporation |   |   |
| Dr. | Lee | Brian | Dolby Laboratories Inc. |   |   |
| Dr. | Lee | Hakju Ryan | Samsung R&D Institute UK |   |   |
| Mr. | Lee | Jicheol | Samsung R&D Institute UK |   |   |
| Dr. | Lei | Ao | HUAWEI TECHNOLOGIES Co. Ltd. |   |   |
| Mr. | Lemotheux | Julien | Orange |  Y |   |
| Mr. | Leung | Nikolai | Qualcomm CDMA Technologies |   |   |
| Dr. | Li | Meng | HuaWei Technologies Co., Ltd |   |   |
| Miss | Li | Mengzhen | ZTE Corporation |   |   |
| Ms. | LI | PEI | China Unicom |   |   |
| Miss | LI | QIUTING | ZTE Corporation |   |   |
| Dr. | Li | Ruyue Yu-Ngok | ZTE Corporation. |   |   |
| Mr. | Li | Zhendong | Nubia Technology Co.,Ltd |   |   |
| Dr. | Liangping | Ma | Qualcomm Austria RFFE GmbH |   |   |
| Mr. | Libunao | Gerardo | Verizon UK Ltd |   |   |
| Mr. | Liebhart | Rainer | Nokia Germany |   |   |
| Mr. | Lim | Suhwan | Meta Ireland |   |   |
| Mr. | Lin | YuanChieh (Carlson) | MediaTek Inc. |   |   |
| Mr. | Lintervo | Arvi | Nokia Corporation |   |   |
| Dr. | Litwic | Lukasz | Ericsson LM |   |   |
| Miss | Liu | Peilin | ZTE Corporation |   |   |
| Ms. | Liu | Qing | China Telecommunications |   |   |
| Mr. | Liu | Yuze | ZTE Corporation |   |   |
| Mr. | Lo | Charles | Qualcomm CDMA Technologies |  X |   |
| Dr. | Lohmar | Thorsten | Ericsson LM |   |  x |
| Mr. | Lönnblad | Daniel | Ericsson LM |   |   |
| Ms. | Luan | Xiaoxu | Pengcheng laboratory |   |   |
| Mr. | Ly | Quang | Convida Wireless |   |   |
| Mr. | Lyu | Huazhang | vivo Mobile Communication Co., |   |   |
| Mr. | M Vamanan | Sudeep | Apple AB |   |   |
| Mr. | Mangion | Mathieu | ETSI |   |   |
| Mrs. | Martin-Cocher | Gaelle | InterDigital, Europe, Ltd. |   |   |
| Dr. | Mohammed Mikaeil | Ahmed | TCL Communication Ltd. |   |   |
| Mr. | Morita | Naotaka | NTT |   |   |
| Dr. | Moriya | Takehiro | NTT |   |   |
| Mr. | Multrus | Markus | Fraunhofer IIS |   |   |
| Dr. | Mustapha | Mona | Apple France |   |   |
| Mr. | NAKAMURA | Kazuo | NICT |   |   |
| Mr. | Nangia | Vijay | Motorola Mobility UK Ltd. |   |   |
| Dr. | Ni | Hui | HUAWEI TECHNOLOGIES Co. Ltd. |   |   |
| Mr. | Norvell | Erik | Ericsson LM |   |   |
| Mr. | Onno | Stephane | InterDigital France R&D, SAS |   |   |
| Mr. | Outters | Jan | ATEME |   |   |
| Mr. | Palanigounder | Anand | Qualcomm Technologies Int |   |   |
| Dr. | Pan | Qi | HUAWEI TECHNOLOGIES Co. Ltd. |   |   |
| Mr. | Pan | Xueming | vivo Communication Technology |   |   |
| Dr. | Park | Jungshin | Samsung Electronics Co., Ltd |   |   |
| Mr. | Pazos | Marcelo | Qualcomm Incorporated |   |   |
| Mr. | Peinado | German | Nokia Germany |   |   |
| Mr. | Plante | Fabrice | Apple Italia S.R.L. |   |   |
| Mr. | Podborski | Dimitri | Apple AB |   |   |
| Mr. | Potetsianakis | Emmanouil | Beijing Xiaomi Mobile Software |   |   |
| Mr. | Pousi | Timo | Ericsson LM |   |   |
| Mr. | Pozo | Sergio | VODAFONE Group Plc |   |   |
| Mr. | Pudney | Chris | VODAFONE Group Plc |   |   |
| Mr. | Qi | Minpeng | China Mobile Research Inst. |   |   |
| Mr. | Qi | Tongya | ZEKU |   |   |
| Dr. | qin | chuan | CENC |   |   |
| Mr. | Ragot | Stephane | Orange |   |   |
| Dr. | Ramanath | Sreenath | Lekha Wireless Solutions |   |   |
| Miss | Ramazanirend | Elmira | VODAFONE Group Plc |   |   |
| Mr. | Rämö | Anssi | Nokia Corporation |   |   |
| Mr. | Reimes | Jan | HEAD acoustics GmbH |   |   |
| Dr. | Rhyu | Sungryeul | Samsung Electronics Co., Ltd |   |  Y |
| Dr. | Ridge | Justin | Nokia Corporation |   |   |
| Ms. | Romaguera | Cristina | VODAFONE Group Plc |   |   |
| Mrs. | Rong | Wu | HUAWEI TECHNOLOGIES Co. Ltd. |   |   |
| Ms. | Sabater | Susana | VODAFONE Group Plc |   |   |
| Mr. | Sällberg | Krister | Ericsson LM |   |   |
| Mr. | Sanchez de la Fuente | Yago | Fraunhofer HHI |  X |   |
| Mr. | Schevciw | Andre | Qualcomm Technologies Int |   |   |
| Dr. | Schierl | Thomas | Fraunhofer HHI |   |   |
| Mr. | Shan | Changhong | Intel Corporation (UK) Ltd |   |   |
| Mr. | Shi | Xiaoyan | Intel |   |   |
| Mr. | shimada | kazuki | NTT |   |   |
| Dr. | Sodagar | Iraj | Tencent |   |   |
| Dr. | Song | Jaeyeon | Samsung Electronics Co., Ltd |   |   |
| Mr. | Song | Yue | China Mobile Com. Corporation |   |   |
| Dr. | Speicher | Sebastian | Qualcomm CDMA Technologies |   |   |
| Mr. | Srinivasan | Suresh | Intel |   |   |
| Mrs. | Stanetsky | Nataliya | Google Ireland Limited |   |   |
| Mr. | Steck | Chris | DTS Licensing Limited |   |   |
| Mr. | Stefano | Faccin | QUALCOMM Europe Inc. - Italy |   |   |
| Mr. | Stegenborg-Andersen | Tore | FORCE Technology |   |   |
| Mr. | Stein | Alan | InterDigital, Europe, Ltd. |   |   |
| Dr. | Stockhammer | Thomas | Qualcomm CDMA Technologies |  X |   |
| Mr. | Stoica | Razvan-Andrei | Motorola Mobility Germany GmbH |  X |   |
| Mr. | Stojanovski | Saso | Intel Deutschland GmbH |   |   |
| Dr. | Su | Huan-yu | HuaWei Technologies Co., Ltd |   |   |
| Dr. | Suh | Dongeun | Samsung R&D Institute UK |   |   |
| Miss | Sultana | Shabnam | Ericsson LM |   |   |
| Mr. | Sumita | Masa | HUAWEI Technologies Japan K.K. |   |   |
| Mr. | Sun | Haiyang | HuaWei Technologies Co., Ltd |   |   |
| Dr. | Sun | Tao | China Mobile M2M Company Ltd. |   |   |
| Ms. | Sun | Xiaowen | vivo Mobile Communication Co., |   |   |
| Mr. | sun | zhao | HUAWEI TECHNOLOGIES Co. Ltd. |   |   |
| Dr. | Szczerba | Marek | Philips International B.V. |   |   |
| Mr. | Szucs | Paul | Sony Europe B.V. |   |   |
| Dr. | Tech | Gerhard | Fraunhofer HHI |   |   |
| Mr. | Teniou | Gilles | Tencent |   |   |
| Mr. | Thiebaut | Laurent | Nokia France |   |   |
| Mr. | Thomas | Emmanuel | Beijing Xiaomi Mobile Software |   |   |
| Ing. | Thomas | Jean-Philippe | Orange |   |   |
| Dr. | Tian | Li | ZTE Corporation. |   |   |
| Dr. | Tonesi | Dario Serafino | Qualcomm CDMA Technologies |   |   |
| Dr. | Tossavainen | Antero | HUAWEI TECHNOLOGIES Co. Ltd. |   |   |
| Dr. | Tourapis | Alexandros | Apple GmbH |   |   |
| Dr. | Tsiatsis | Vlasios | Ericsson LM |   |   |
| Mr. | Varga | Imre | Qualcomm CDMA Technologies |   |   |
| Mr. | Wang | Bin | Beijing Xiaomi Mobile Software |   |   |
| Mr. | Wang | Dong | Guangdong OPPO Mobile Telecom. |   |  Y |
| Dr. | Wang | Shu | Intel Corporation (UK) Ltd |   |   |
| Mr. | Wang | Wen | vivo Mobile Communication Co., |   |   |
| Dr. | Wang | Xin | MediaTek Inc. |   |  Y |
| Mr. | Wang | Yuan | HuaWei Technologies Co., Ltd |   |   |
| Mr. | Wang | Zhe | HUAWEI TECHNOLOGIES Co. Ltd. |   |   |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Software |   |   |
| Mr. | Wu | Nien | Beijing Xiaomi Mobile Software |   |   |
| Mr. | Wu | Xiaobo | vivo Communication Technology |   |   |
| Mr. | Xie | Zhenhua | vivo Mobile Communication Co., |   |   |
| Miss | Xu | Jiayi | China Mobile Com. Corporation |   |   |
| Ms. | Xu | Yishan | Huawei Technologies R&D UK |   |   |
| Miss | Yan | Chen | Pengcheng laboratory |   |   |
| Dr. | Yang | Hyun-Koo | Samsung Electronics Co., Ltd |   |   |
| Mr. | Yao | Yizhi | Intel Corporation (UK) Ltd |   |   |
| Ms. | Yi | Haofan | BJTU |   |   |
| Mrs. | Yin | Yujian | China Mobile Com. Corporation |   |   |
| Mr. | Yip | Eric | Samsung Electronics Co., Ltd |  Y |   |
| Dr. | Yoon | Joonhee | LG Electronics Inc. |   |  Y |
| Mr. | You | Shilin | ZTE Corporation. |   |   |
| Dr. | Zhang | Amy | vivo Japan KK |   |   |
| Miss | Zhang | Juan | Qualcomm Korea |   |   |
| Mr. | ZHANG | Kefeng | Qualcomm Incorporated |   |   |
| Ms. | ZHANG | XIN | TCL Communication Ltd. |   |   |
| Dr. | ZHANG | Yu | ABS |   |   |
| Dr. | Zhang | Zhuoyun | Tencent |   |   |
| Dr. | Zhao | Shuai | Intel |  Y |   |
| Mr. | Zhou | Runze | Huawei Technologies France |   |   |
| Mr. | Zhou | Xutao | vivo Communication Technology |   |   |
| Mr. | Zhu | Jinguo | ZTE Corporation. |   |   |
| Mrs. | Zhu | Wenruo | HuaWei Technologies Co., Ltd |   |   |
| Mr. | Zhu | Yichen | ZTE Corporation. |   |   |
| Dr. | Zia | Waqar | Apple Marketing Iberia |   |   |
| Mr. | Zisimopoulos | Haris | Qualcomm Technologies Int |   |   |
| Mr. | Zuo | Jun | HuaWei Technologies Co., Ltd |   |   |

## 8.17 Final Tdoc allocation

**Legend for Tdocs:**

* **Color: not-yet processed**, **processed**, **late**, **~~withdrawn~~**, **moved to a different A.I.**, **under email agreement, postponed, output document.**
* a agreed, e endorsed, app approved, n noted, pa partially agreed, np not pursued, pp postponed…

|  |  |  |
| --- | --- | --- |
| A.I. # | A.I. Title | Tdoc # |
| 8 | Multicast-Broadcast-Streaming (MBS) SWG |  |
| 8.1 | Opening of the session |  |
| 8.2 | Registration of documents |  |
| 8.3 | Reports/Liaisons from other groups/meetings | QoE: 007 (RAN2) -> MBS SWG -> reply in 164->369a (plenary)008n (RAN2) -> MBS SWG -> noted011 (RAN3) -> MBS SWG -> reply in 163->347a (plenary)LTE-based 5G Broadcast: 271 (5G-MAG) -> MBS SWG ->329 (plenary)103n, 196->346 (plenary) |
| 8.4 | Issues for immediate consideration |  |
| 8.5 | CRs to features in Release 17 and earlier | 26.502: 040->377 (plenary), 051->379 (plenary), 101pp, 227->374a (plenary), 165nMBS Security: 078n26.517: 079->280e, 228a (plenary)26.804 (FS\_5GMS\_EXT): 044->220->342a (plenary)26.247: 061a (plenary), 062a (plenary), 063->376 (plenary), 166m (376)26.512: 041->266a (plenary), 042->267a (plenary) 26.531: 229->273n~~050~~ |
| 8.6 | SR\_MSE (Split Rendering Media Service Enabler) | Configuration: 138aArchitecture: 160m (341), 133m (341)Call flows: 161m (341), 188->373aAPI: 162m (341), 134->360aFormat: 137->296aTS 26.565: 341a, 291 (plenary)TP: 363 (plenary) |
| 8.7 | 5GMS\_Ph2 (5G Media Streaming Architecture Phase2) | M3: 043aService URLs: 045n, 087->283->XXXa (plenary)Low-latency: 080->287 (plenary), 157n5GMS over 5MBS: 081->288eMult. Manifests: 082->289 (plenary), 155m (->289)Metrics reporting: 099->295&297->348a&350a (plenary)Remote: 152a (plenary), 153->327 (plenary), 154a (plenary)Data collec: 200->331a (plenary), 243->323 (plenary), 244m(323)TP: 282 (plenary)WID: 284->380 (plenary) |
| 8.8 | 5GMS\_Audio\_Ph2 (5G Media Streaming Audio codec phase 2 for 5G-Advanced) | 26.117: 111a (plenary)26.511: 112->381a (plenary), 113n, 209n |
| 8.9 | FS\_SmarTAR (Feasibility Study on Smartly Tethering AR Glasses) | TR 26.806: 084->362a (plenary)KI#4: 085a KI#6: 086a, 187aPIN: 240aTP: 083->352a (plenary)168pp, 173a |
| 8.10 | FS\_MS\_NS\_Ph2 (Study on Media Streaming aspects of Network Slicing Phase 2) | 250->337aTr. Migration: 167->333aService continuity: 249->336a251->338a252n, 253n, TR: 255->339 (plenary)TP: 256a (plenary) |
| 8.11 | New Work / New Work Items and Study Items | 5GP\_Ph2: 088->279 (plenary)5GMS\_Ph3: 216m (to 088) |
| 8.12 | Others including TEI | 171a (plenary), 230n |
| 8.13 | Review of the future work plan (next meeting dates, hosts) | MBS SWG AH Telcos (Host: Qualcomm)9 March (1530-1730 CET)16 March (1530-1730 CET) (2nd hour with 5G-MAG)30 March (1530-1730 CEST) |

## Annex A Document status

## C.1 Agreed and endorsed documents (not presented to SA4 plenary)

## C.2 Agreed documents (to be presented to SA4 plenary)

## C.3 Other status than agreed documents (not to be presented to SA4 plenary)

## C.4 Other status than agreed documents (to be presented to SA4 plenary)

1. **Frédéric Gabin**

 E-mail: frederic.gabin@dolby.com

 Tel (mobile): +33 678 44 85 75

 Mailing Address: Dolby France, 18 rue de Londres, 75009 Paris, France [↑](#footnote-ref-1)