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

**Title: 3GPP SA4 MBS SWG report during SA4#124**

**Document for: Approval**

**Agenda item: 12.2**

MBS SWG Minutes during SA4#124

## 8.1 Opening of the session

Mr. Frédéric Gabin (Dolby, Chairman of MBS SWG) opens the sessions on 22 May 2023 at 16:10 (local time Berlin).

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

The minutes are shared [MBS SWG Minutes during SA4#124](https://docs.google.com/document/d/1CaZuRevLRnqfGTIaf9VDh48K2mOi2AoqxzcE3D9iBoM/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=ind2305C&L=3GPP\_TSG\_SA\_WG4\_MBS
* https://list.etsi.org/scripts/wa.exe?A1=ind2305D&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** |
| [**S4-230754**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230754.zip) | LS on clarifications related to the NEF's role in MBS group message data delivery | CT3 | 5.2 |
| [**S4-230756**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230756.zip) | LS reply on management of AS by AF | SA6 | 5.2 |
| [**S4-230759**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230759.zip) | Alignment of activities on UE data collection reporting and event exposure | TSG SA | 5.2 |
| [**S4-230868**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230868.zip) | Reply LS on alignment of activities on UE data collection, reporting and event exposure | BBC, Qualcomm Incorporated | 8.3 |
| [**S4-230771**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230771.zip) | [5GMS3] Rel-17 corrections | BBC | 8.5 |
| [**S4-230777**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230777.zip) | [EVEX] Data Reporting Configuration Inclusion of Data Sampling Rules and Data Reporting Rules | Qualcomm Incorporated, BBC | 8.5 |
| [**S4-230789**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230789.zip) | Corrections to references | Dolby Laboratories Inc. | 8.5 |
| [**S4-230790**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230790.zip) | Corrections to references | Dolby Laboratories Inc. | 8.5 |
| [**S4-230803**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230803.zip) | [5MBP3] General Updates and Corrections | Qualcomm Incorporated | 8.5 |
| [**S4-230869**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230869.zip) | [5MBP3] Manifest format for Object Collection and Carousel | Nokia, BBC, Ericsson | 8.5 |
| [**S4-230870**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230870.zip) | Correction on length of FSA ID | Huawei, HiSilicon | 8.5 |
| [**S4-230873**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230873.zip) | Security mechanisms for MBS traffic | Huawei, HiSilicon | 8.5 |
| [**S4-230889**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230889.zip) | [5MBUSA] Object Distributuion Method and notification event corrections | Ericsson LM, BBC, Nokia | 8.5 |
| [**S4-230907**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230907.zip) | [5GMSA] Feature description | BBC | 8.5 |
| [**S4-230908**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230908.zip) | [5GMSA] Feature description | BBC | 8.5 |
| [**S4-230788**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230788.zip) |  [SR\_MSE] Architecture improvements and alignment | Tencent Cloud | 8.6 |
| [**S4-230796**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230796.zip) | [SR\_MSE] General updates to TS26.565 | Qualcomm CDMA Technologies | 8.6 |
| [**S4-230797**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230797.zip) | [SR\_MSE] Pixel Streaming Media Profile | Qualcomm CDMA Technologies | 8.6 |
| [**S4-230798**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230798.zip) | [SR\_MSE] SR Rendering API | Qualcomm CDMA Technologies | 8.6 |
| [**S4-230799**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230799.zip) | [SR\_MSE] pCR on signaling for SR session control | Qualcomm Incorporated | 8.6 |
| [**S4-230892**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230892.zip) | [SR\_MSE] Correction of the architecture | Ericsson GmbH, Eurolab | 8.6 |
| [**S4-230925**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230925.zip) | [SR\_MSE] On SR configuration API and view configuration | Xiaomi Communications | 8.6 |
| [**S4-230769**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230769.zip) | [5GMS\_Ph2] 5GMS AS configuration via M3 | BBC | 8.7 |
| [**S4-230770**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230770.zip) | [5GMS\_Ph2] Feature description and dynamic policies for low-latency media streaming | Qualcomm Incorporated, BBC, Tencent | 8.7 |
| [**S4-230785**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230785.zip) | [5GMS\_Ph2] Multiple-manifest: Improvements on the multiple manifest downlink streaming call flow | Tencent Cloud | 8.7 |
| [**S4-230787**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230787.zip) | [5GMS\_Ph2] Uplink Streaming: editorial correction | Tencent Cloud | 8.7 |
| [**S4-230806**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230806.zip) | [5GMS\_Ph2] Data collection for ANBR-based NA | Sony Europe B.V. | 8.7 |
| [**S4-230814**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230814.zip) | [5GMS\_Ph2] Service URL Handling | Qualcomm Incorporated, BBC | 8.7 |
| [**S4-230815**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230815.zip) | [5GMSA\_Ph2] 5GMS over 5MBS | Qualcomm Incorporated, BBC, Tencent, Ericsson | 8.7 |
| [**S4-230860**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230860.zip) | [5GMS\_Ph2] Service URL Handling clarifications | Tencent | 8.7 |
| [**S4-230861**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230861.zip) | [5GMSA\_Ph2] Dynamic policies service points for uplink streaming | Tencent Cloud | 8.7 |
| [**S4-230887**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230887.zip) | [5GMS\_Ph2] Network Assistance feature for throughput prediction | Nokia | 8.7 |
| [**S4-230888**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230888.zip) | [5GMS\_Ph2] Network Assistance API for throughput prediction | Nokia | 8.7 |
| [**S4-230813**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230813.zip) | [FS\_SmarTAR] Key Issue #5: Compute distribution across UE and network for tethered glasses | Qualcomm incorporated | 8.8 |
| [**S4-230819**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230819.zip) | [FS\_SmarTAR] Editor's Proposed Updates | Qualcomm Tech. Netherlands B.V | 8.8 |
| [**S4-230820**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230820.zip) | [FS\_SmarTAR] Proposed Finalization of TR | Qualcomm Tech. Netherlands B.V | 8.8 |
| [**S4-230847**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230847.zip) | [FS\_SmarTAR] Methods for achieving desired end-to-end packet error rate and bit rate | Qualcomm Technologies Ireland | 8.8 |
| [**S4-230853**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230853.zip) | General corrections and editorial modifications | Nokia | 8.8 |
| [**S4-230854**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230854.zip) | Call flows for standalone AR glasses-based device architecture | Nokia | 8.8 |
| [**S4-230871**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230871.zip) | Candidate solution for network slice migration when multiple slices provisioned | Huawei, HiSilicon | 8.9 |
| [**S4-230927**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230927.zip) | [FS\_MS\_NS\_Ph2] Survey of Network Operators on Network Slicing | Samsung Electronics Benelux BV | 8.9 |
| [**S4-230928**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230928.zip) | [FS\_MS\_NS\_Ph2] Key Issue #3: Moving media flows to other slices | Samsung Research America | 8.9 |
| [**S4-230929**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230929.zip) | [FS\_MS\_NS\_Ph2] Key Issue on impact of Network Slice data rate limitations on media streaming procedures | Samsung Electronics Benelux BV | 8.9 |
| [**S4-230930**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230930.zip) | [FS\_MS\_NS\_Ph2] Key Issue on Slice selection for M5 requests | Samsung Research America | 8.9 |
| [**S4-230932**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230932.zip) | [FS\_MS\_NS\_Ph2] Issues for consideration in FS\_MS\_NS\_Ph2 study | Samsung Electronics Benelux BV | 8.9 |
| [S4-230933](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230933.zip) | [FS\_MS\_NS\_Ph2] Draft TR 26.941 v0.6.0 | Samsung Electronics Benelux BV | 8.9 |
| [S4-230934](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230934.zip) | [FS\_MS\_NS\_Ph2] Proposed Updated Time and Work Plan | Samsung Electronics Benelux BV | 8.9 |
| [**S4-230938**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230938.zip) | LS on network slice replacement procedure | Samsung Electronics Benelux BV | 8.9 |
| [**S4-230816**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230816.zip) | New WID for 5G Media Streaming Protocols Phase 2 | Qualcomm incorporated, Tencent, Orange, BBC, Sony Europe B.V., Dolby Laboratories, Inc., AT&T | 8.10 |
| [**S4-230857**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230857.zip) | Discussion buffer level threshold-based RVQoE reporting | Apple | 8.10 |
| [**S4-230916**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230916.zip) | New WID on 5G-Advanced media profiles for messaging services | Dolby Laboratories Inc., Fraunhofer IIS, Ericsson LM, Nokia Corporation | 8.10 |
| [**S4-230852**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230852.zip) | [5GMS\_Pro\_Ph2] Draft Work Plan | Qualcomm Tech. Netherlands B.V | 8.12 |

## 8.3 Reports/Liaisons from other groups/meetings

### 8.3.1 Incoming LSs

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| [S4-230754](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230754.zip) | LS on clarifications related to the NEF's role in MBS group message data delivery | CT3 | Andrijana Brekalo |

**Presenter**: Richard Bradbury

**Online Discussion**:

* Qi: I didn’t check the latest progress in SA2.
* Richard: All we can say is we await a decision from SA2.
* Frederic: I am fine to postpone this.
* Thorsten: SA2 will probably define a new reference point. Is it relevant to merge this with MBS-11?
* Richard: It is just adding a new reference name on our diagram.
* Thorsten: I am fine to postpone until the next meeting.
* Qi: It is a Rel-18, no rush.

**Decision**: Postponed.

[S4-230754](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230754.zip) is **postponed**.

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| [S4-230756](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230756.zip) | LS reply on management of AS by AF | SA6 | Andrijana Brekalo |

**Presenter**: Richard Bradbury

**Online Discussion**:

* Richard: I propose to postpone.

**Decision**: Postponed

[S4-230756](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230756.zip) is **postponed**.

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| --- | --- | --- | --- |
| [S4-230759](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230759.zip) | Alignment of activities on UE data collection reporting and event exposure | TSG SA | Andrijana Brekalo |

**Presenter**: Andrijana Brekalo

**Online Discussion**:

* Draft reply in 868.

**Decision**: Replied into 868.

[S4-230759](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230759.zip) is **replied into** [**S4-230868**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230868.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230759.zip)963 | Reply LS on the reuse of EVEX as specified in TS 26.531 | 3GPP TSG SA WG6 | Andrijana Brekalo |

**Presenter**: Richard Bradbury

**Online Discussion**:

* Frederic: I would recommend sticking with the question. Time is short, it could be managed during AH call.

**Decision**: Let's go back to it during the plenary.

[S4-230963](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230963.zip) is **postponed**.

### 8.3.2 Proposed Responses

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| [S4-230868](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230868.zip) | Reply LS on alignment of activities on UE data collection, reporting and event exposure | BBC, Qualcomm Incorporated | Richard Bradbury |

**Presenter**: Richard Bradbury

**Online Discussion**: none

**Decision**: Agreed.

[S4-230868](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230868.zip) is **agreed**.

## 8.4 Issues for immediate consideration

None

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

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| [S4-230771](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230771.zip) | [5GMS3] Rel-17 corrections | BBC | Richard Bradbury |

**Presenter**: Richard Bradbury

**Online Discussion**:

* Thomas: These changes would leave Rel-16 broken.
* Richard: Yes, did not get time to work on Rel-16. A subset of these changes could be applicable to Rel-16 as well.
* Thomas and Frederic: We can do Rel-16 later
* Iraj: The stateReason, is it only for error cases ?
* Richard: The ProblemDetails is present all the time, but it may not mean much in Ready state
* Iraj: Is it simple to say that in Ready state, rest of them do not apply. This will prevent adding “shall” in multiple places

**Decision**: Agreed with the change on the WI code (Should be TEI17, 5GMS3). Revised to 968. 968 is agreed without presentation.

[S4-230771](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230771.zip) is **revised to** [**S4-230968**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230968.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230771.zip)968 | [5GMS3] Rel-17 corrections | BBC | Richard Bradbury |

**Decision**: Agreed without presentation.

[S4-230968](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230968.zip) is **agreed**.

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| [S4-230777](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230777.zip) | [EVEX] Data Reporting Configuration Inclusion of Data Sampling Rules and Data Reporting Rules | Qualcomm Incorporated, BBC | Charles Lo |

**Presenter**: Charles Lo

**Online Discussion**:

* Richard: Lower case for property names in Table 5.4.2.2-1. It is probably Microsoft word feature to auto correct it
* Gunnar: In clause 5.4.2.1, samplingFrequency is not too intuitive. Maybe we have a sampling period
	+ Charles: I do not have any preference
	+ Richard: Agree with Gunnar, it may be intuitive to be in seconds
* Richard: Spelling mistake of “specification” in table 5.4.2.1-1
* Frederic: Revision will be looked at in washup

**Decision**: 777 is revised to 973.

[S4-230777](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230777.zip) is **revised to** [**S4-230973**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230973.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230777.zip)973 | [EVEX] Data Reporting Configuration Inclusion of Data Sampling Rules and Data Reporting Rules | Qualcomm Incorporated, BBC | Charles Lo |

**Presenter**: Richard Bradbury

**Online Discussion**: none

**Decision**: Agreed.

[S4-230973](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230973.zip) is **agreed**.

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| [S4-230789](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230789.zip) | Corrections to references | Dolby Laboratories Inc. | Frederic Gabin |

**Presenter**: Frederic Gabin

**Online Discussion**:

* No comments

**Decision**: Agreed.

[S4-230789](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230789.zip) is **agreed**.

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| [S4-230790](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230790.zip) | Corrections to references | Dolby Laboratories Inc. | Frederic Gabin |

**Presenter**: Frederic Gabin

**Online Discussion**:

* No comments

**Decision**: Agreed.

[S4-230790](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230790.zip) is **agreed**.

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| --- | --- | --- | --- |
| [S4-230803](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230803.zip) | [5MBP3] General Updates and Corrections | Qualcomm Incorporated | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Thomas: Question is where to start? Probably start with yaml, then stage-3 parameters and then see how stage-2 parameters relate to those stage-3 parameters
* Thorsten: This is lot of changes. Maybe we need to concentrate to get the tables corrected this week.
* Richard: There has been no change to baseline. We are trying to avoid conflicting fixes because of multiple docs
* Richard: I’d prefer that If we find an error, we correct it using a CR
* Thomas: In JSON, how do we specify the cardinality?
* Richard: There is a way
* Frederic: Do we delete the XML
* Thomas: Yes
* Thomas: I’d suggest lets do an offline. Start with tables and start filling them. We already have some details filled in
* Thomas: Do we carry forward the bundles in JSON
* Richard: Yes, we can do it in JSON
* Thorsten: At this stage, we have one large JSON document. It is not clear if we want to send an update we send the document once again, or just a part of it. For example, when we do an object and then we cancel it. The scheduled changes is what is potentially to be updated
* Thomas: Are we realistically saving anything? By doing incremental update of bundles
* Richard: I’d suggest, in Rel-17, we just do a simple - send everything for update. In subsequent releases, we can look at update more closely
* Thomas: mpd is a part of User service description. When you update the mpd, do you send the user service description as well, or just update the mpd separately? I guess the later?

**Decision**: Revised to 975.

[S4-230803](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230803.zip) is **revised to** [**S4-230975**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230975.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230803.zip)975 | [5MBP3] General Updates and Corrections | Qualcomm Incorporated | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Frederic: “Proposed Change effects” in the cover page have to be fulfilled.
* Richard: My preference is to wait until it is more complete. But I am OK to endorse it.

**Decision**: Endorsed.

[S4-230975](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230975.zip) is **endorsed**.

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| [S4-230869](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230869.zip) | [5MBP3] Manifest format for Object Collection and Carousel | Nokia, BBC, Ericsson | Abdelaali CHAOUB |

**Presenter**: Abdelaali CHAOUB

**Online Discussion**:

* Richard: We can probably delete the note in clause 5.3.2 now because of the changes you got in
* Qi: For the first change, we can make it clear that it is delivered to MBSTF using unicast. So, insert the word “unicast” before PDUSession
* Revise it offline

**Decision**: Revised to 974.

[S4-230869](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230869.zip) is **revised to** [**S4-230974**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230974.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230869.zip)974 | [5MBP3] Manifest format for Object Collection and Carousel | Nokia, BBC, Ericsson | Abdelaali CHAOUB |

**Presenter**: Abdelaali CHAOUB

**Online Discussion**:

* Thomas: Does this impact the YAML?
* Abdelaali: This is in the last paragraph.
* Thomas: I would like to postpone. We should not add new stuff until we have not fixed the existing.
* Richard: We have an incoming LS from CT. This would be good to add this to our response. I think serialising things will take more time.
* Thomas: It will be hard and hard to fix everything. And people don’t support fixing everything.

**Decision**: Agreed.

[S4-230974](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230974.zip) is **agreed**.

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| [S4-230870](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230870.zip) | Correction on length of FSA ID | Huawei, HiSilicon | Qi Pan |

**Presenter**: Qi Pan

**Online Discussion**:

* Qi:Re-submission of endorsed document in SA4#123-e meeting. However, there was discussion to remove XML and only keep JSON. If keeping JSON, we can ignore this change
* Richard: We can try to get the other tdoc (in 803) agreed by end of this week to remove XML. In that case we can ignore this. If we cannot agree to remove XML before end of this week, we should let this go to plenary and make a change later on.

**Decision**: Noted.

[S4-230870](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230870.zip) is **noted**.

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| [S4-230873](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230873.zip) | Security mechanisms for MBS traffic | Huawei, HiSilicon | Qi Pan |

**Presenter**: Qi Pan

**Online Discussion**:

* r01 is presented
* Qi: Richard, you mentioned multiple. Do you see case for multiple at the same time?
* Richard: Not really.
* Thorsten: Is it enough to indicate support in service announcement, or there is a need to indicate more information in the service announcement
* Thorsten: I agree with Richard that it is either control plane security or user plane security. Not both of them at the same time
* Qi: Theoretically it may be possible, but I understand that application provider may not do control plane and user plane at the same time
* Thorsten: It will be confusing to client if doing both at same time
* Richard: Even if theoretically possible, it may not be sensible
* Thorsten: Does it also apply to the Multicast user plane?
* Qi: I will further revise. Is the suggestion to do either control plane or user plane at one time
* Thorsten: That would be my suggestion
* Abdellali: Why is it dependent on the application provider, and not network dependent?
* Qi: It is specified by SA3
* Thorsten: It might be worthwhile to think about error cases. Also, agree with Abdelaale why external AF has to provision this?
* Qi: Based on SA3 specification
* Richard: Is there a case when AF wants security, but doesn’t specify what kind. I am wondering if there are 4 states - No security, control plane security, user plane security, or whatever security you can give me.
* Qi: Yeah, maybe. I can further check in SA3 specifications
* Frederic: Is it the MBSF controlling all the parameters?
* Richard: Yes
* Thorsten: Wondering if we are over doing
* Richard: Have the same question
* Frederic: We cannot be ambiguous. We need to have indication
* Richard: We just have to make sure in stage-3 specification, that there is notification appropriately
* Frederic: It is “selected”
* Richard: It is more “requested” than “selected”

**Decision**: Revised to 969.

[S4-230873](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230873.zip) is **revised to** [**S4-230969**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230969.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230873.zip)969 | Security mechanisms for MBS traffic | Huawei, HiSilicon | Qi Pan |

**Presenter**: Qi Pan

**Online Discussion**:

* Frederic: There are some typos and Core Network has to be unchecked in the cover page. And comments have to be deleted.
* Thorsten: I sent an email about Nmb5.
* Qi: Yes, I agree.
* Richard: It is not there anymore.
* Thorsten: You can add Ericsson in supporters.

**Decision**: Revised to 1041. The revision will be agreed without presentation.

[S4-230969](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230969.zip) is **revised to** [**S4-231041**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231041.zip).

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| [S4-230889](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230889.zip) | [5MBUSA] Object Distributuion Method and notification event corrections | Ericsson LM, BBC, Nokia | Thorsten Lohmar |

**Presenter**: Thorsten Lohmar

**Online Discussion**:

* Richard: There is an empty clause.
* Thorsten: Yes, we may have to have some text about termination. Or do people agree that we do not need termination?
* Parked for offline discussion

**Decision**: Revised to 970.

[S4-230889](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230889.zip) is **revised to** [**S4-230970**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230970.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230889.zip)970 | [5MBUSA] Object Distributuion Method and notification event corrections | Ericsson LM, BBC, Nokia | Thorsten Lohmar |

**Presenter**: Thorsten Lohmar

**Online Discussion**:

* Frederic: Please delete the comments and the changes over changes.

**Decision**: Revised to 1040. The revision will be agreed without presentation.

[S4-230970](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230970.zip) is **revised to** [**S4-231040**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231040.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230889.zip)1040 | [5MBUSA] Object Distributuion Method and notification event corrections | Ericsson LM, BBC, Nokia | Thorsten Lohmar |

**Decision**: Agreed without presentation.

[S4-231040](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231040.zip) is **agreed**.

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| [S4-230907](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230907.zip) | [5GMSA] Feature description | BBC | Richard Bradbury |

**Presenter**: Richard Bradbury

**Online Discussion**:

* Iraj: Everything that we have here exists in Rel-18?
* Richard: Yes.
* Qi: We also need to add a RAN based QoE reporting, not only AF based QoE reporting.
* Richard: Good point.
* Thorsten: In 4.0.6, what is the dependency between content hosting and dynamic policy. There is a collaboration scenario in 26501 with an AF but without an AS
* Richard: Yes, agree. We can remove the brackets in first sentence of Dynamic Policy clause
* Thomas: We have to add TEI in the work item code.
* Frederic: Correct. And there is no reference to 26.512 for a good reason. 512 is stage 3. Can you live without referencing 512?
* Iraj: I don’t think you can implement 512 without 501.
* Richard: Are you OK if I delete the last 2 sentences of the paragraph?
* Frederic: Yes.
* Frederic: Use “Not Specified” instead of “For future study” in tables

**Decision**: Revised to 964

[S4-230907](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230907.zip) is **revised to** [**S4-230964**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230964.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230907.zip)964 | [5GMSA] Feature description | BBC | Richard Bradbury |

**Presenter**: Richard Bradbury

**Online Discussion**:

* Frederic: We can go for an agreement and check if a merge is needed.

**Decision**: Agreed.

[S4-230964](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230964.zip) is **agreed**.

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| [S4-230908](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230908.zip) | [5GMSA] Feature description | BBC | Richard Bradbury |

**Presenter**: Richard Bradbury

**Online Discussion**:

* Richard: Same corrections as 907 will apply here
* Frederic: Yes

**Decision**: Revised to 967

[S4-230908](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230908.zip) is **revised to** [**S4-230967**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230967.zip).

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| [S4-2309](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230908.zip)67 | [5GMSA] Feature description | BBC | Richard Bradbury |

**Presenter**: Richard Bradbury

**Online Discussion**: none

**Decision**: Agreed.

[S4-230908](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230908.zip) is **agreed**.

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230788.zip)1001 | [5MBP3] Correction of parameter usage for Byte Range Object Repair | Ericsson LM | Thorsten Lohmar |

**Presenter**: Thorsten Lohmar

**Online Discussion**: none

**Decision**: Endorsed

[S4-231001](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231001.zip) is **endorsed**.

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

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| [S4-230788](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230788.zip) |  [SR\_MSE] Architecture improvements and alignment | Tencent Cloud | Iraj Sodagar |

**Presenter**: Iraj Sodagar

**Online Discussion**: none

**Decision**: Noted

[S4-230788](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230788.zip) is **noted**.

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| [S4-230796](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230796.zip) | [SR\_MSE] General updates to TS26.565 | Qualcomm CDMA Technologies | Imed Bouazizi |

**Presenter**: Imed Bouazizi

**Online Discussion**:

* Iraj: We need to update the architecture for MeCar here. The network driven Edge instantiation has been removed. Why?
* Imed: That’s an ongoing discussion. I still believe that the split rendering client should be in full control. For split rendering, only client driven is relevant.
* Iraj: We should have a good reason to exclude it. This is not the case here.
* Imed: I am not saying it is impossible. But I don’t believe we should have many options. It is not a toolbox.
* Thorsten: In section 4, do we say that split rendering is only applicable for XR rendering?
* Imed: This is done for XR, but nothing prevents display on 2D.
* Thorsten: We should indicate what is specific for XR.
* Gaelle: In the overview section, the second line is quite confusing. Can we remove this thing?
* Imed: It could be the SDK provider, what is the problem?
* Gaelle: I don’t see the intention.

**Decision**: Revised to 978.

[S4-230796](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230796.zip) is **revised to** [**S4-230978**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230978.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230796.zip)978 | [SR\_MSE] General updates to TS26.565 | Qualcomm CDMA Technologies | Imed Bouazizi |

**Decision**: Goes to the plenary

[S4-230978](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230978.zip) goes to the plenary.

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| [S4-230797](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230797.zip) | [SR\_MSE] Pixel Streaming Media Profile | Qualcomm CDMA Technologies | Imed Bouazizi |

**Presenter**: Imed Bouazizi

**Online Discussion**:

* Frederic: Is this removed from MeCar or is this copied?
* Imed: It is for the PD.
* Emmanuel: What is the motivation?
* Imed: It is not clear what MeCar is. Some things will not be in MeCar.
* Gaelle: Are you saying you also need the decoder on the server side.
* Imed: For pixel streaming I don’t think we need a decoder.
* Gaelle: On the pose, the frequency of reporting the pose will not be in MeCar, is it planned in MSE?
* Imed: This has to be done.
* Thorsten: I uploaded a commented version. In the first line of clause 8.2.2.1, is “3gpp-sr” a reuse data channel type?
* Imed: It is a new one.
* Thorsten: This will have to be defined.
* Gaelle: The pose prediction format will have to be defined in MeCar. In this spec we should have the guidelines.
* Imed: Things have been defined here and MeCar PD is parked.
* Emmanuel: MeCar will define data channel format but not protocols.
* Thorsten: In the table, there is xrspace. Is it RTC space negotiation?
* Imed: No.

**Decision**: Revised to 1005.

[S4-230797](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230797.zip) is **revised to** [**S4-231005**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231005.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230797.zip)1005 | [SR\_MSE] Pixel Streaming Media Profile | Qualcomm CDMA Technologies | Imed Bouazizi |

**Presenter**: Imed Bouazizi

**Online Discussion**:

* Emmanuel: Does the Editor’s note really apply to all the following sections.
* Frederic: It should be limited to Clause 2.2.
* Imed: OK.
* Thorsten: Is the contribution introducing the SWAP protocol?
* Imed: No.

**Decision**: Agreed with the modification of the Editor’s note.

[S4-231005](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231005.zip) is **agreed**.

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| [S4-230798](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230798.zip) | [SR\_MSE] SR Rendering API | Qualcomm CDMA Technologies | Imed Bouazizi |

**Presenter**: Imed Bouazizi

**Online Discussion**:

* Iraj: In the diagram, what is this interface? We have a new interface SR-6 here.
* Imed: Yes, I will update.
* Thomas: On the metrics, we should avoid associating this with the quality of experience.
* Imed: Yes.
* Iraj: Maybe we need to work more on this.
* Andrei: What is meant by ViewInfo in the IDL disconnect interface? What does ViewInfo stand for? I thought that disconnect is meant to handle disconnection with the SRS, this seems to be an error
* Imed: Yes, will check and rework the IDL

**Decision**: Revised to 1004.

[S4-230798](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230798.zip) is **revised to** [**S4-231004**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231004.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230798.zip)1004 | [SR\_MSE] SR Rendering API | Qualcomm CDMA Technologies | Imed Bouazizi |

**Presenter**: Imed Bouazizi

**Online Discussion**: none

**Decision**: Agreed.

[S4-231004](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231004.zip) is **agreed**.

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| [S4-230799](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230799.zip) | [SR\_MSE] pCR on signaling for SR session control | Qualcomm Incorporated | Imed Bouazizi |

**Presenter**: Imed Bouazizi

**Online Discussion**:

* Thorsten: Is the WASP server creating a connection with SRC or SRS?
* Imed: It creating a Rendez-Vous point. And it is listening for messages. Up to now, we don’t support multi-party. But in principle it can be used.
* Thorsten: I think 113 should add specific call flows.
* Imed: I agree.
* Gaelle: On the semantic message, you are referring to 8.4.3 but I don’t find it.
* Imed: We plan to define it. But right now, we have nothing agreed. We propose to define something that could work with all types of split rendering but we did not agree.

**Decision**: Revised to 1003.

[S4-230799](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230799.zip) is **revised to** [**S4-231003**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231003.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230799.zip)1003 | [SR\_MSE] pCR on signaling for SR session control | Qualcomm Incorporated | Imed Bouazizi |

**Presenter**: Imed Bouazizi

**Online Discussion**:

* Thorsten: Where is stage 2 for 26.113?
* Imed: Stage 2 is 26.506.
* Thorsten: But I don’t see procedures in 506. And why is the call flow in a stage 3 section?
* Frederic: Should we note or postpone this one?
* Thorsten: This is a mess: Relying on an architecture in 26.506, where the session setup procedures are not defined, but extending the stage 3 already with some messages. It is not clear, in which spec the stage 3 for TS 26.506 will be documented, yet, but 1003 is based on 26.113. I don’t want to block but I want to understand.

**Decision**: Agreed.

[S4-231003](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231003.zip) is **agreed**.

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| [S4-230892](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230892.zip) | [SR\_MSE] Correction of the architecture | Ericsson GmbH, Eurolab | Thorsten Lohmar |

**Presenter**: Thorsten Lohmar

**Online Discussion**:

* Frederic: This was fixed in a new version.
* Thorsten: If the architecture from 506 is reused, why do we have a SR4?
* Imed: 4 is a case where split rendering provides the stage 3.
* Thorsten: It is confusing. Is it reusing or not? It seems it is not really reusing 506.
* Imed: If we add a new function, we call it SR. But to be honest, the SR decision might be wrong.
* Frederic: If it is not stage 2 don’t define new entities.
* Imed: We have MSE and RTC. And to not choose one, we selected SR. We can revert to RTC.
* Iraj: We need a new draft TS.

**Decision**: Noted. The editor will take those into account.

[S4-230892](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230892.zip) is **noted**.

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| [S4-230925](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230925.zip) | [SR\_MSE] On SR configuration API and view configuration | Xiaomi Communications | Emmanuel Thomas |

**Presenter**: Emmanuel Thomas

**Online Discussion**:

* Iraj: On the first change, we should delete the overall row.
* Emmanuel: OK.

**Decision**: Agree, except the first change for which the overall row will be deleted. This will be managed by the editor.

[S4-230925](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230925.zip) is **agreed**.

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

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| [S4-230769](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230769.zip) | [5GMS\_Ph2] 5GMS AS configuration via M3 | BBC | Richard Bradbury |

**Presenter**: Richard Bradbury

**Online Discussion**:

* Iraj: All we are doing is making M3 in the scope?
* Richard: Yes.
* Iraj: With this CR, the work is completed for M3?
* Richard: Yes.

**Decision**: Agreed. We need to potentially resolve conflict.

[S4-230769](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230769.zip) is **agreed**.

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| [S4-230770](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230770.zip) | [5GMS\_Ph2] Feature description and dynamic policies for low-latency media streaming | Qualcomm Incorporated, BBC, Tencent | Richard Bradbury |

**Presenter**: Richard Bradbury

**Online Discussion**:

* r01 (based on the Ericsson version) presented.
* Iraj: Regarding the comment from Thorsten, introducing new terms is confusing.
* Frederic: r01 is agreeable but this will have to be checked with Thorsten.

**Decision**: Revised to 979.

[S4-230770](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230770.zip) is **revised to** [**S4-230979**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230979.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230770.zip)979 | [5GMS\_Ph2] Feature description and dynamic policies for low-latency media streaming | Qualcomm Incorporated, BBC, Tencent | Richard Bradbury |

**Presenter**: Richard Bradbury

**Online Discussion**:

* Richard: I forgot to remove “draft”.
* Iraj: It looks good.
* Thorsten: I am still not happy with this Service operation point. How the service operation point is used.
* Richard: In the 2nd figure in 4.0.6, it is an abstract concept.
* Thomas: For me this might be an ID.
* Thorsten: If it is not in MPEG-DASH, something is missing.
* Thomas: This has been there for 9 months. It is not fair to note it.
* Frederic: Let’s give us another day and review it in the closing plenary.

**Decision**: Goes to the plenary.

[S4-230979](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230979.zip) goes to the plenary.

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| [S4-230785](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230785.zip) | [5GMS\_Ph2] Multiple-manifest: Improvements on the multiple manifest downlink streaming call flow | Tencent Cloud | Iraj Sodagar |

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Ericsson version presented.
* Iraj: The level of details requested by Thorsten could bring confusion.
* Frederic: The content is agreeable. But the cover page has to be fixed.

**Decision**: Revised to 981. The revision will be agreed without presentation.

[S4-230785](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230785.zip) is **revised to** [**S4-230981**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230981.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230785.zip)981 | [5GMS\_Ph2] Multiple-manifest: Improvements on the multiple manifest downlink streaming call flow | Tencent Cloud | Iraj Sodagar |

**Decision**: Agreed without presentation.

[S4-230981](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230981.zip) is **agreed**.

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| [S4-230787](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230787.zip) | [5GMS\_Ph2] Uplink Streaming: editorial correction | Tencent Cloud | Iraj Sodagar |

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Iraj: The call flow has been updated. This could be a correction and not editorial.
* Frederic: The cover page will have to be fixed.

**Decision**: Revised to 982. The revision will be agreed without presentation.

[S4-230787](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230787.zip) is **revised to** [**S4-230982**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230982.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230787.zip)982 | [5GMS\_Ph2] Uplink Streaming: editorial correction | Tencent Cloud | Iraj Sodagar |

**Decision**: Agreed without presentation.

[S4-230982](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230982.zip) is **agreed**.

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| [S4-230806](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230806.zip) | [5GMS\_Ph2] Data collection for ANBR-based NA | Sony Europe B.V. | Paul Szucs |

**Presenter**: Paul Szucs

**Online Discussion**:

* r2 version presented.
* Paul: A paragraph will probably have to be moved. But I still need to identify where.
* Richard: I propose to delete clause 4.7.4.4, and modify clause 4.7.2.2.

**Decision**: Revised to 984.

[S4-230806](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230806.zip) is **revised to** [**S4-230984**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230984.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230806.zip)984 | [5GMS\_Ph2] Data collection for ANBR-based NA | Sony Europe B.V. | Paul Szucs |

**Presenter**: Paul Szucs

**Online Discussion**: no comments.

**Decision**: Agreed.

[S4-230984](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230984.zip) is **agreed**.

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| [S4-230814](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230814.zip) | [5GMS\_Ph2] Service URL Handling | Qualcomm Incorporated, BBC | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Thomas: Should I make explicit numbers instead of 4.X and 5.X?
* Adrianna: It is better to keep 4.X if there is a risk of modification.
* Thomas: There is a dependency with CR44. Is it better to merge?
* Iraj: You can only merge if we put the right clause number.
* Richard: It is probably better to have a revision before merging.

**Decision**: Revised to 985.

[S4-230814](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230814.zip) is **revised to** [**S4-230985**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230985.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230814.zip)985 | [5GMS\_Ph2] Service URL Handling | Qualcomm Incorporated, BBC | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* \_BBC\_BBC version presented
* Richard: I think it is not quite correct for the moment. The MSH uses the External reference to invoke the URL

**Decision**: Postponed to the plenary.

[S4-230985](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230985.zip) goes to the plenary.

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| [S4-230815](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230815.zip) | [5GMSA\_Ph2] 5GMS over 5MBS | Qualcomm Incorporated, BBC, Tencent, Ericsson | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Ericsson version presented.
* Thomas: I am not sure I can digest the comments from Thorsten.
* Richard: I think he tried to check whether 5GMS needs to be decorated.
* Thomas: That is a stage 3 question in my opinion.
* Thomas: We could update the figure later. Can you attach 2 interfaces to the NEF?

**Decision**: Revised to 986.

[S4-230815](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230815.zip) is **revised to** [**S4-230986**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230986.zip).

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230815.zip)986 | [5GMSA\_Ph2] 5GMS over 5MBS | Qualcomm Incorporated, BBC, Tencent, Ericsson | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**: None

**Decision**: Agreed.

[S4-230986](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230986.zip) is **agreed**.

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| [S4-230860](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230860.zip) | [5GMS\_Ph2] Service URL Handling clarifications | Tencent | Iraj Sodagar |

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Richard: This is the one based on an old revision.
* Iraj: This is identical with what is in 814. I hope to merge it with 814.
* Richard: If we put them side by side, the table has different numbers.
* Iraj: Is 5.X acceptable?
* Richard: I don’t know. It is more a question for Thomas.
* Iraj: I think we need more discussion.
* Thomas: I would prefer a merge.
* Frederic: But the content is not agreed.
* Thomas: The baseline version is wrong.
* Richard: Iraj needs to work we Thomas.
* Iraj: I propose to merge it in 985.

**Decision**: Merged in 985.

[S4-230860](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230860.zip) is **merged in** [**S4-230985**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230985.zip).

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| [S4-230861](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230861.zip) | [5GMSA\_Ph2] Dynamic policies service points for uplink streaming | Tencent Cloud | Iraj Sodagar |

**Presenter**: Iraj Sodagar

**Online Discussion**:

* BBC version presented.
* Richard: Your CR is doing modifications on a clause which does not exist.
* Iraj: Yes. Can we merge this with CR34 in 979?

**Decision**: Merge to 979.

[S4-230861](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230861.zip) is **merged into** [**S4-230979**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230979.zip).

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| [S4-230887](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230887.zip) | [5GMS\_Ph2] Network Assistance feature for throughput prediction | Nokia | Abdelaali CHAOUB |

**Presenter**: Abdelaali CHAOUB

**Online Discussion**:

* Thorsten: What is the difference between an estimation and a prediction?
* Frederic: The purpose was to predict the estimate. What is the bitrate I should expect…
* Thorsten: Is it possible to find a wording?
* Frederic: It is already in release 16.
* Thomas: A simple clarification by a note would be sufficient.
* Thomas: We need to be clear if this is adding something on top (in which case it will be a feature addition) or fixing (which is a correction)
* Richard: On one hand it is the argument of backward compatibility (between 5GMS streaming and 3GP-DASH). On the other hand, it looks like a new feature. To me, it looks like a new feature than a backward compatibility point
* Abdellali: Maybe we can have an offline discussion
* Frederic (to Abdelaali): Are you intending to make it a correction for all previous releases, or intending to add a new feature?
* Abdelaali: For me, the concept is already there in 3GP-DASH. The interactions are already there in Rel-17
* Frederic: Still have the same question - correction or new feature?
* Abdellali: Most colleagues want to have it as a new feature. We can try that way

**Decision**: Noted

[S4-230887](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230887.zip) is **noted**.

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| [S4-230](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230888.zip)976 | [5GMS3] Rel-16 corrections | BBC | Richard Bradbury |

**Presenter**: Richard Bradbury

**Online Discussion**: none

**Decision**: Agreed. Goes to the plenary.

[S4-230976](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230976.zip) is **agreed**.

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| [S4-230888](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230888.zip) | [5GMS\_Ph2] Network Assistance API for throughput prediction | Nokia | Abdelaali CHAOUB |

**Presenter**: Abdelaali CHAOUB

**Online Discussion**:

* Thomas: Based on the changes in this document, it is now clearly a new feature instead of a correction. I encourage creating a new key issue in 26.804, and we can see if we have time to do Rel-18 work.
* Abdelaali: Do we still have time if we do a key issue in 26.804 because June is the last meeting?
* Frederic: There is no consensus in the group. We need motivation to discuss this. There is no consensus at this time. If there is consensus in the August meeting, we may try to prepare a CR. Suggest to bring a discussion paper on key issue

**Decision**: Noted.

[S4-230888](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230888.zip) is **noted**.

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230861.zip)1018 | Summary for 5GMS\_Ph2 “5G Media Streaming Architecture Phase 2” | Tencent Cloud | Iraj Sodagar |

**Presenter**: Iraj Sodagar

**Online Discussion**: none

**Decision**: Endorsed

[S4-231018](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231018.zip) is **endorsed**.

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

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| [S4-230813](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230813.zip) | [FS\_SmarTAR] Key Issue #5: Compute distribution across UE and network for tethered glasses | Qualcomm incorporated | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Daniel: In 6.5.4, it is not tethered. It is standalone, right?
* Thomas: The glass is doing some work as well. Maybe we could remove that sentence.
* Daniel: OK, I agree.
* Frederic: In 6.5.5, I don’t expect a phone to run a 5G system.
* Thomas: It should be UE.
* Thorsten: Is there a model of what a UE is? If you use the terms phone and glasses, it is clearer.
* Thomas: I will implement the changes in the TR.

**Decision**: Agreed with changes.

[S4-230813](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230813.zip) is **agreed**.

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| [S4-230819](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230819.zip) | [FS\_SmarTAR] Editor's Proposed Updates | Qualcomm Tech. Netherlands B.V | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Frederic: Change history will have to be added. Each TR version shall have a new change history.

**Decision**: Agreed as a basis for further work. Revised to 1024.

[S4-230819](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230819.zip) is **revised to** [**S4-231024**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231024.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230819.zip)1024 | [FS\_SmarTAR] Editor's Proposed Updates | Qualcomm Tech. Netherlands B.V | Thomas Stockhammer |

**Decision**: Goes to the plenary

[S4-231024](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231024.zip) goes to the plenary.

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| [S4-230820](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230820.zip) | [FS\_SmarTAR] Proposed Finalization of TR | Qualcomm Tech. Netherlands B.V | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**: none

**Decision**: Agreed. The typos will be managed in the pCR.

[S4-230820](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230820.zip) is **agreed**.

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| [S4-230847](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230847.zip) | [FS\_SmarTAR] Methods for achieving desired end-to-end packet error rate and bit rate | Qualcomm Technologies Ireland | Ma Liangping |

**Presenter**: Ma Liangping

**Online Discussion**:

* Daniel: We already provided some comments: How do you measure Pe2e? How does the 5G network know the packet error rate?
* Liangping: Thank you, I will provide a revision. Measurement can be done by the operator, this will be implementation dependent.
* Qi: That’s OK to me. This can be done using NEF or UPF.
* Frederic: It looks correct conceptually. But you don’t provide implementation. It is very theoretical.

**Decision**: Revised to 1029.

[S4-230847](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230847.zip) is **revised to** [**S4-231029**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231029.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230847.zip)1029 | [FS\_SmarTAR] Methods for achieving desired end-to-end packet error rate and bit rate | Qualcomm Technologies Ireland | Ma Liangping |

**Presenter**: Ma Liangping

**Online Discussion**: none

**Decision**: Agreed

[S4-231029](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231029.zip) is **agreed**.

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| [S4-230853](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230853.zip) | General corrections and editorial modifications | Nokia | Daniel Philip VENMANI |

**Presenter**: Daniel Philip VENMANI

**Online Discussion**:

* Liangping: We also need to exchange the labels in the figure. But some figures are coming from other study or work items. The modifications will have to check with them.

**Decision**: Agreed.

[S4-230853](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230853.zip) is **agreed**.

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| [S4-230854](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230854.zip) | Call flows for standalone AR glasses-based device architecture | Nokia | Daniel Philip VENMANI |

**Presenter**: Daniel Philip VENMANI

**Online Discussion**:

* Liangping: There is the use of AR/MR application. It is inconsistent with previous TDoc which uses XR. Additionally, one of the figures is very blurry.
* Daniel: About the 1st point, I will replace AR/MR with XR. For the figure, if I have the source, I can replace it.
* Thomas: About the figure, I took it from FS\_5GSTAR. It is probably in 998.

**Decision**: Revised to 1021.

[S4-230854](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230854.zip) is **revised to** [**S4-231021**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231021.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230854.zip)1021 | Call flows for standalone AR glasses-based device architecture | Nokia | Daniel Philip VENMANI |

**Presenter**: Daniel Philip VENMANI

**Online Discussion**:

* Liangping: A potential issue is the changing of AR/MR by XR. It could imply too many changes in other groups.
* Daniel: There is one more contribution where we correct all these things.

**Decision**: Agreed.

[S4-231021](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231021.zip) is **agreed**.

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

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| [S4-230871](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230871.zip) | Candidate solution for network slice migration when multiple slices provisioned | Huawei, HiSilicon | Qi Pan |

**Presenter**: Qi Pan

**Online Discussion**:

* \_BBC version presented.
* Thorsten: If the 5GMS AF reachable by multiple DNNs, what does it need to be DNN-aware?
* Qi: Because the agreed solution may provision multiple DNN to the same AF and we need to know how to trigger the slicing migration.
* Thorsten: Why does the MSH need to trigger this? Later, you have the IP rules.
* Richard: This is candidate solution 0. This is already supported. The question is whether that’s transparent or not. A call flow is probably needed.

**Decision**: More discussions are needed. Noted.

[S4-230871](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230871.zip) is **noted**.

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| [S4-230927](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230927.zip) | [FS\_MS\_NS\_Ph2] Survey of Network Operators on Network Slicing | Samsung Electronics Benelux BV | Prakash Kolan |

**Presenter**: Prakash Kolan

**Online Discussion**: none

**Decision**: Noted without presentation.

[S4-230927](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230927.zip) is **noted**.

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| [S4-230928](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230928.zip) | [FS\_MS\_NS\_Ph2] Key Issue #3: Moving media flows to other slices | Samsung Research America | Prakash Kolan |

**Presenter**: Prakash Kolan

**Online Discussion**:

* \_BBC\_Ericsson\_Samsung version presented.
* Thorsten: It would be good to explain what the assumption is and why. I am hoping that kind of migration can be done without awareness.
* Frederic: I imagine how it can be catastrophic for any services if it is not transparent. It is already possible. If slices make it worse, don’t use slices.
* Frederic: Would it be OK to add it to the TR?
* Richard: Probably OK.
* Qi: We have to check with SA2 first. But I am OK to use it as a basis for further work.
* Thorsten: Let’s put it in the TR with square bracket pending SA2 input.
* Daniel: I prefer to note it and reconsider it after SA2 feedback.

**Decision**: Noted, more inputs from SA2 is required.

[S4-230928](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230928.zip) is **noted**.

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| [S4-230929](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230929.zip) | [FS\_MS\_NS\_Ph2] Key Issue on impact of Network Slice data rate limitations on media streaming procedures | Samsung Electronics Benelux BV | Prakash Kolan |

**Presenter**: Prakash Kolan

**Online Discussion**:

* \_BBC version presented.
* Frederic: How different is it to running on a regular PDU? It needs to follow the policy.
* Richard: Yes, it just complicates the road to the PCF. It is just the PCF that needs to give the policy.
* Prakash: The slice limit is done by PCF, part of the user description. The contribution says, we don’t want to change this.
* Prakash: Do we document it?
* Richard: It could be a useful document. But whether it is a key issue or not… I am reluctant to extend the work.

**Decision**: Noted.

[S4-230929](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230929.zip) is **noted**.

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| [S4-230930](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230930.zip) | [FS\_MS\_NS\_Ph2] Key Issue on Slice selection for M5 requests | Samsung Research America | Prakash Kolan |

**Presenter**: Prakash Kolan

**Online Discussion**:

* rev01 presented.
* Richard: On the 2nd bullet, the formulation is strange.
* Prakash: OK, I will modify it.
* Frederic: Is there a purpose to separate APIs traffic on different slices? We need a motivating use case.
* Prakash: The discussion is on the use cases but we already have them.
* Frederic: The question is more why we would recommend to have the traffic and APIs on different slices.
* Thorsten: Maybe we could add a note to ask to clarify.
* Thomas: I am reluctant to add more key issues because it takes time and resources. We shouldn’t add more key issues after one year. We need to have some gates here.
* Frederic: I suggest we note this and try to find a motivating use case.

**Decision**: Noted.

[S4-230930](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230930.zip) is **noted**.

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| [S4-230932](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230932.zip) | [FS\_MS\_NS\_Ph2] Issues for consideration in FS\_MS\_NS\_Ph2 study | Samsung Electronics Benelux BV | Prakash Kolan |

**Presenter**: Prakash Kolan

**Online Discussion**:

* Richard: It is interesting. It all depends on SA2 response. SA2 is working on stuff and we have to work on what could be the impacts of this.
* Qi: Maybe we need to elaborate what could be the benefits of these 2 issues.
* Frederic: Should we note this?
* Prakash: It is fine to note it. We can look at which one of these things is more beneficial.

**Decision**: Noted.

[S4-230932](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230932.zip) is **noted**.

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| [S4-230934](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230934.zip) | [FS\_MS\_NS\_Ph2] Proposed Updated Time and Work Plan | Samsung Electronics Benelux BV | Prakash Kolan |

**Presenter**: Prakash Kolan

**Online Discussion**: none

**Decision**: Agreed.

[S4-230934](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230934.zip) is **agreed**.

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| [S4-230938](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230938.zip) | LS on network slice replacement procedure | Samsung Electronics Benelux BV | Prakash Kolan |

**Presenter**: Prakash Kolan

**Online Discussion**:

* Richard: The description has too much information. Maybe we can lose paragraph 4 and 5. Otherwise it can be confusing.
* Thorsten: I share the concern from Richard.
* Frederic: We need to work offline on a rewording version.
* Thorsten: Please don’t make the question text too generic. And I would drop the first question.
* Richard: Question number 2 is the crystal for me. Question 1 could be reformulated.

**Decision**: Revised to 1037.

[S4-230938](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230938.zip) is **revised to** [**S4-231037**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231037.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230938.zip)1037 | LS on network slice replacement procedure | Samsung Electronics Benelux BV | Prakash Kolan |

**Presenter**: Prakash Kolan

**Online Discussion**:

* Richard: It is good.
* Frederic: Can you clean the rev marks.
* Prakash: OK

**Decision**: Revised to 1048. The revision will go to the plenary.

[S4-231037](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231037.zip) is **revised to** [**S4-231048**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231048.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230938.zip)1048 | LS on network slice replacement procedure | Samsung Electronics Benelux BV | Prakash Kolan |

**Decision**: Agreed without presentation.

[S4-231048](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231048.zip) is **agreed**.

## 8.10 Other Rel-18 matters including TEI

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| [S4-230816](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230816.zip) | New WID for 5G Media Streaming Protocols Phase 2 | Qualcomm incorporated, Tencent, Orange, BBC, Sony Europe B.V., Dolby Laboratories, Inc., AT&T | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Frederic: I don’t think it is a good idea to put supporting companies in the Note of each bullet.
* Iraj: What is important is that each topic is addressed.
* Richard: We have a clause 8 to alert other groups on dependencies.
* Frederic: It would be good to indicate that this is 12 which could impact CT3.
* Qi: You can remove the brackets on Huawei in supporting companies.
* Frederic: Maybe we can put “No” instead of “Don't know” in the cover page.

**Decision**: Revised to 1012.

[S4-230816](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230816.zip) is **revised to** [**S4-231012**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231012.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230816.zip)1012 | New WID for 5G Media Streaming Protocols Phase 2 | Qualcomm incorporated, Tencent, Orange, BBC, Sony Europe B.V., Dolby Laboratories, Inc., AT&T | Thomas Stockhammer |

**Decision**: Goes to the plenary.

[S4-231012](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231012.zip) goes to the plenary.

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| [S4-230857](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230857.zip) | Discussion buffer level threshold-based RVQoE reporting | Apple | Waqar Zia |

**Presenter**: Waqar Zia

**Online Discussion**:

* Gunnar: The buffer level report is in second and not in bit so, this is not a big issue. And, it is not clear in our specification if all the applications have the same behavior.
* Thomas: CTA Wave developed CMCD. We should look at these metrics. They probably also have the API. Buffer level is also probably included.
* Gunnar: I agree, CMCD is useful but not implemented by 3GPP.
* Frederic: This could get more adoption for reporting to the RAN.
* Waqar: We have to decide if we support RAN.
* Frederic: We already defined metrics to RAN for network assistance.
* Qi: What is the intention of this paper? Is it to tell RAN3-4 only use the buffer level or we need a new TEI.
* Waqar: Metrics are probably our better solution.
* Thomas: Can we create a key issue in 804 and identify what we can do? We will see if we can add this to 5GMS\_EXT Stage 3.
* Frederic: You are invited to do a CR in 804 with the key issue. And then, we will modify the 5GMS\_EXT WID.
* Waqar: Can we park it to the plenary to be able to send an LS?
* Frederic: Yes.

**Decision**: Way to go forward seems agreeable. Noted.

[S4-230857](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230857.zip) is **noted**.

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

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| [S4-230916](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230916.zip) | New WID on 5G-Advanced media profiles for messaging services | Dolby Laboratories Inc., Fraunhofer IIS, Ericsson LM, Nokia Corporation | Frederic Gabin |

**Presenter**: Frederic Gabin

**Online Discussion**:

* \_QCOM version presented.
* Thomas: It should be ALR and not ARM.
* Iraj: If for MeCar we don’t agree on glTF, what do we do? Do we use different technologies?
* Thomas: Ok to add “possibly in alignment with TS 26.119”.
* Is it intentional to remove audio here?
* Thomas: We need to describe a scene. This is all container that you need to do.
* Stefan: On bullet e, is VR implicitly included with 26.511?
* Frederic: By removing this bullet, we are not referencing 118 at all.
* Thomas: I am not convinced that adding VR360 format is relevant. You can do it as part of the 3D scene.
* Frederic: Would it work to merge it in bullet d.
* Thomas: That’s OK. We would put “possibly in alignment with TS 26.119 and based on VR Audio/Video formats and codecs, in alignment with 5GMS TS 26.511.”
* Ahmed: With that you can add Interdigital in supporters.
* Thomas: OK, in clause 3, we also have to add “assets” and “XR”.
* Stefan: We could also add 918 in clause 3.

**Decision**: Agreed with online editing. Revised to 1035. The revision will be agreed without presentation and goes to the plenary.

[S4-230916](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230916.zip) is **revised to** [**S4-231035**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231035.zip).

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| [S4-23](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230916.zip)1035 | New WID on 5G-Advanced media profiles for messaging services | Dolby Laboratories Inc., Fraunhofer IIS, Ericsson LM, Nokia Corporation | Frederic Gabin |

**Decision**: Agreed without presentation and goes to the plenary.

[S4-231035](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231035.zip) is **agreed**.

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

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| [S4-230852](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230852.zip) | [5GMS\_Pro\_Ph2] Draft Work Plan | Qualcomm Tech. Netherlands B.V | Thomas Stockhammer |

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Thomas: I will update the TDoc number of the WID during the plenary.

**Decision**: Agreed.

[S4-230852](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230852.zip) is **agreed**.

## 8.13 Any Other Business

### 8.13.1 Input documents

### 8.13.2 Report

### 8.13.3 Summary from Offline Discussions

### 8.13.4 Output documents

## 8.14 Close of the session

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

The online session was closed on May 5, 2023 at 10:41 (CEST).

##

## Annex A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TITLE** | **Family Name** | **Given Name** | **Employer Organization** | **f2f** | **online** |
| Dr. | Abhishek | Rohit | AT&T |  |  |
| Dr. | Ahsan | Saba | Nokia Corporation |  |  |
| Mr. | Bae | Jaehyeon | Samsung Electronics Co., Ltd |  |  |
| Mr. | Baek | Youngkyo | Samsung R&D Institute UK |  |  |
| Mr. | Bennett | Andy | Samsung R&D Institute UK |  |  |
| Dr. | Bouazizi | Imed | Qualcomm Incorporated | Yes |  |
| Dr. | Bradbury | Richard | BBC |  | Yes |
| Mrs. | Brekalo | Andrijana | ETSI |  |  |
| Dr. | Bruhn | Stefan | Dolby Sweden AB |  |  |
| Dr. | Budagavi | Madhukar | Samsung Research America |  |  |
| Mr. | Burdinat | Christophe | ATEME |  |  |
| Mr. | Burman | Bo | Ericsson LM |  |  |
| Dr. | Cakulev | Violeta | Verizon UK Ltd |  |  |
| Mr. | Casati | Alessio | Nokia UK |  |  |
| Dr. | Cetinkaya | Egemen | Verizon UK Ltd |  |  |
| Mr. | Champel | Mary-Luc | Beijing Xiaomi Mobile Software |  |  |
| Dr. | CHAOUB | Abdelaali | Nokia France |  |  |
| Ms. | Chen | Lijuan | ZTE Corporation |  |  |
| Dr. | Chen | Lulin | MediaTek Inc. |  |  |
| Mr. | Choi | Hongjin | Samsung R&D Institute UK |  |  |
| Miss | chong | vivian | VIVO TECH GmbH |  |  |
| Mr. | Coban | Muhammed | Qualcomm Technologies Int |  |  |
| Dr. | Curcio | Igor | Nokia Corporation |  |  |
| Mr. | Dawes | Peter | VODAFONE Group Plc |  |  |
| Mr. | Dawkins | Spencer | Tencent |  |  |
| Mr. | Doehla | Stefan | Fraunhofer IIS | Yes |  |
| Dr. | Dong | Hao | ZTE Corporation |  |  |
| Ms. | Dong | Xufei | CITC |  |  |
| Ms. | Ebschbach | Linda | umlaut |  |  |
| Dr. | Ehara | Hiroyuki | Panasonic Holdings Corporation |  |  |
| Miss | Eitoku | Haruka | NTT corporation |  |  |
| Dr. | El Essaili | Ali | Ericsson GmbH, Eurolab |  |  |
| Mr. | Fontaine | Loic | InterDigital France R&D, SAS |  |  |
| Ing. | Fotopoulou | Eleni | Fraunhofer IIS |  |  |
| Mr. | Gabin | Frederic | Dolby Laboratories Inc. | Yes |  |
| Mrs. | Gao | Fei | China Mobile Com. Corporation |  |  |
| Ms. | GAO | JIN | China Telecommunications |  |  |
| Mr. | Gao | Qian | China Unicom |  |  |
| Mr. | Gao | Shuai | China Unicom |  |  |
| Mr. | Gao | Yuan | Huawei Technologies France |  |  |
| Mr. | Gestraud | Yann | Orange |  |  |
| Mr. | Gibellino | Diego | TELECOM ITALIA S.p.A. |  |  |
| 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 |  |  |
| Ms. | Guo | Ivy | Apple Computer Trading Co. Ltd |  |  |
| Dr. | Gutierrez Estevez | David | Samsung R&D Institute UK |  |  |
| Dr. | Hamza | Ahmed | InterDigital Communications |  |  |
| Dr. | Harada | Noboru | NTT |  |  |
| Mr. | Harper | Colby | Pivotal Commware |  |  |
| Dr. | He | Xuan (Shane) | Nokia Germany | Yes  |  |
| Dr. | He | Yong | Qualcomm Incorporated |  |  |
| Mr. | Heikkilä | Gunnar | Ericsson LM | Y |  |
| 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 |  |  |
| Miss | Hu | Yushuang | China Mobile Com. Corporation |  |  |
| Mr. | Hynonen | Olli | Ericsson LM |  |  |
| Mr. | Illahi | Gazi Karam | Nokia Corporation |  |  |
| Mr. | Inoue | Yoshihiro | NTT |  |  |
| Mr. | Jansson Toftgård | Tomas | Ericsson LM |  |  |
| Dr. | Jelinek | Milan | VoiceAge Corporation |  |  |
| Mr. | Jiang | Yi | China Mobile Com. Corporation |  |  |
| Mr. | Jin | James | vivo Mobile Communication Co., |  |  |
| Dr. | Joshi | Rajan | Samsung Research America |  |  |
| Mr. | Ju | Manchang | ZTE Corporation |  |  |
| Dr. | Jung | Kyunghun | Meta Ireland |  |  |
| Ms. | Kang | Yanchao | vivo Mobile Communication Co., |  |  |
| Miss | ke | xiaowan | vivo Mobile Communication Co., |  |  |
| Ms. | Kim | DongYeon | Samsung R&D Institute UK |  |  |
| Dr. | Kim | Hyesung | Samsung R&D Institute UK |  |  |
| Mr. | Kiss | Krisztian | Apple (UK) Limited |  |  |
| Dr. | Kolan | Prakash | Samsung Research America |  |  |
| Dr. | Koza | Yvette | ZTE FRANCE SASU |  |  |
| Mr. | Kroon | Bart | Philips International B.V. |  |  |
| Mr. | Kuchibhotla | Ravi | Motorola Mobility UK Ltd. |  |  |
| Mr. | Kumar | Lalith | Samsung R&D Institute India |  |  |
| Dr. | Kweon | Kisuk | Samsung Electronics Co., Ltd |  |  |
| Mr. | Kwon | WooSuk | LG Electronics Inc. | Yes |  |
| Mr. | Laaksonen | Lasse | Nokia Corporation |  |  |
| Mr. | Lair | Yannick | Nokia France |  |  |
| Dr. | Lee | Brian | Dolby Laboratories Inc. |  |  |
| Mr. | Lee | Cheolung | Samsung R&D Institute UK |  |  |
| Dr. | Lee | Duckey | Samsung R&D Institute UK |  |  |
| Dr. | Lee | Hakju Ryan | Samsung R&D Institute UK |  |  |
| Mr. | Lee | Jicheol | Samsung R&D Institute UK |  |  |
| Dr. | Lehtiniemi | Arto | Nokia Corporation |  |  |
| Mr. | Lemotheux | Julien | Orange | Yes |  |
| Mr. | Leung | Nikolai | Qualcomm CDMA Technologies |  |  |
| Mr. | Li | Aihua | China Mobile Com. Corporation |  |  |
| Ms. | Li | Chenyi | China Unicom |  |  |
| Mrs. | li | jing | China Unicom |  |  |
| Dr. | Li | Meng | HuaWei Technologies Co., Ltd |  |  |
| Ms. | LI | PEI | China Unicom |  |  |
| Miss | LI | QIUTING | ZTE Corporation |  |  |
| Mr. | Li | Zhendong | Nubia Technology Co.,Ltd |  |  |
| Mr. | Li | Zhijun | ZTE Corporation |  |  |
| Dr. | Liangping | Ma | Qualcomm Austria RFFE GmbH |  |  |
| Mr. | Libunao | Gerardo | Verizon UK Ltd |  |  |
| Mr. | Lintervo | Arvi | Nokia Corporation |  |  |
| Dr. | Litwic | Lukasz | Ericsson LM |  |  |
| Miss | Liu | Peilin | ZTE Corporation |  |  |
| Ms. | Liu | Qing | China Telecommunications |  |  |
| Mr. | Liu | Yue | China Mobile Com. Corporation |  |  |
| Mr. | Liu | Yuze | ZTE Corporation |  |  |
| Mr. | Lo | Charles | Qualcomm CDMA Technologies |  |  |
| Dr. | Lohmar | Thorsten | Ericsson LM | Yes |  |
| Ms. | Luan | Xiaoxu | Pengcheng laboratory |  |  |
| Mr. | Lyu | Huazhang | vivo Mobile Communication Co., |  |  |
| Mr. | M Vamanan | Sudeep | Apple AB |  |  |
| Mr. | Ma | Ruitao | China Unicom |  |  |
| Mr. | Malenovsky | Vladimir | VoiceAge Corporation |  |  |
| Mr. | MAO | Yuxin | Beijing Xiaomi Mobile Software |  |  |
| Mrs. | Martin-Cocher | Gaelle | InterDigital, Europe, Ltd. |  |  |
| Mr. | Meredith | Thomas | ETSI |  |  |
| Dr. | Moon | Sang-Jun | Samsung Electronics Co., Ltd |  |  |
| Dr. | Moriya | Takehiro | NTT |  |  |
| Mr. | Multrus | Markus | Fraunhofer IIS |  |  |
| Mr. | Murugesan | Karthik | Motorola Solutions UK Ltd. |  |  |
| Dr. | Mustapha | Mona | Apple France |  |  |
| Mr. | NAKAMURA | Kazuo | NICT |  |  |
| Mr. | Nayak | Ashok Kumar | Samsung R&D Institute India |  |  |
| Dr. | Ni | Hui | HUAWEI TECHNOLOGIES Co. Ltd. |  |  |
| Mr. | Norvell | Erik | Ericsson LM |  |  |
| Mr. | Oettl | Martin | Nokia Germany |  |  |
| 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. |  |  |
| Dr. | Park | Jungshin | Samsung Electronics Co., Ltd |  |  |
| 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 |  |  |
| Dr. | qin | chuan | CENC |  |  |
| Mr. | Ragot | Stephane | Orange |  |  |
| Mrs. | Rai | Reshma | Ittiam System Pvt Ltd |  |  |
| Miss | Ramazanirend | Elmira | VODAFONE Group Plc |  |  |
| Mr. | Rämö | Anssi | Nokia Corporation |  |  |
| Mr. | Reimes | Jan | HEAD acoustics GmbH |  |  |
| Dr. | Rhyu | Sungryeul | Samsung Electronics Co., Ltd |  | Yes |
| Dr. | Ridge | Justin | Nokia Corporation |  |  |
| Ms. | Romaguera | Cristina | VODAFONE Group Plc |  |  |
| Mr. | Ruan | Bangqiu | ZTE Corporation |  |  |
| Ms. | Sabater | Susana | VODAFONE Group Plc |  |  |
| Mr. | Sällberg | Krister | Ericsson LM |  |  |
| Mr. | Salmon | Michael | Verizon UK Ltd |  |  |
| Mr. | Sanchez de la Fuente | Yago | Fraunhofer HHI |  |  |
| Mr. | Schaefer | Ralf | InterDigital France R&D, SAS |  |  |
| Mr. | Schäfer | Pascal | umlaut |  |  |
| Mr. | Schevciw | Andre | Qualcomm Technologies Int |  |  |
| Dr. | Shailendra | Samar | Intel Technology India Pvt Ltd |  |  |
| Mr. | Shan | Changhong | Intel Corporation (UK) Ltd |  |  |
| Mr. | Shao | Weixiang | ZTE Corporation |  |  |
| Dr. | Shen | Zukang | Huawei Technologies France |  |  |
| Mrs. | SHI | Susan | HUAWEI Technologies Japan K.K. |  |  |
| Ms. | Shi | Xiaonan | China Mobile Com. Corporation |  |  |
| Mr. | shimada | kazuki | NTT |  |  |
| Mr. | Smith | David K. | AT&T GNS Belgium SPRL |  |  |
| Dr. | Sodagar | Iraj | Tencent | Yes |  |
| Mr. | Son | Jangwoo | Fraunhofer HHI |  |  |
| Dr. | Song | Jaeyeon | Samsung Electronics Co., Ltd |  |  |
| Dr. | Speicher | Sebastian | Qualcomm CDMA Technologies |  |  |
| Mr. | Srikanth | Nagisetty | Panasonic Holdings Corporation |  |  |
| Mr. | Stange | Wolf-Joergen | umlaut |  |  |
| 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 | Yes |  |
| Dr. | Stoica | Razvan-Andrei | Motorola Mobility Germany GmbH | Yes |  |
| Dr. | Su | Huan-yu | HuaWei Technologies Co., Ltd |  |  |
| Dr. | Suh | Dongeun | Samsung R&D Institute UK |  |  |
| Mr. | Sun | Haiyang | HuaWei Technologies Co., Ltd |  |  |
| Mr. | Sun | Mingrui | China Unicom |  |  |
| 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. | Yes |  |
| Mr. | Takahashi | Hideaki | Nokia Corporation |  |  |
| Dr. | Targali | Yousif | Verizon UK Ltd |  |  |
| Dr. | Tech | Gerhard | Fraunhofer HHI |  |  |
| Mr. | Teniou | Gilles | Tencent |  |  |
| Mr. | Thomas | Emmanuel | Beijing Xiaomi Mobile Software |  |  |
| Dr. | Tonesi | Dario Serafino | Qualcomm CDMA Technologies |  |  |
| Dr. | Tossavainen | Antero | HUAWEI TECHNOLOGIES Co. Ltd. |  |  |
| Dr. | Tourapis | Alexandros | Apple GmbH |  |  |
| Mr. | Varga | Imre | Qualcomm CDMA Technologies |  |  |
| Mr. | Venkatesh | Sandesh | Dolby Laboratories Inc. |  |  |
| Dr. | VENMANI | Daniel Philip | Nokia France |  |  |
| Mr. | Wang | Bin | Beijing Xiaomi Mobile Software |  |  |
| Dr. | Wang | Chenyu | BUPT |  |  |
| Ms. | Wang | Dan | China Mobile Com. Corporation |  |  |
| Mr. | Wang | Dong | Guangdong OPPO Mobile Telecom. |  |  |
| Mr. | Wang | Hanming | China Telecomunication Corp. |  |  |
| Dr. | Wang | Shoufeng | AsiaInfo Technologies Inc |  |  |
| Mr. | Wang | Wen | vivo Mobile Communication Co., |  |  |
| Dr. | Wang | Xin | MediaTek Inc. | Yes |  |
| Mr. | Wang | Yuan | HuaWei Technologies Co., Ltd |  |  |
| Dr. | Wang | Zhaoning | China Unicom |  |  |
| Mr. | Wang | Zhe | HUAWEI TECHNOLOGIES Co. Ltd. |  |  |
| Ms. | WEI | QUN | China Unicom |  |  |
| Mr. | Wei | Xinpeng | Huawei Technologies France |  |  |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Software |  |  |
| Mr. | Wu | Nien | Beijing Xiaomi Mobile Software |  |  |
| Miss | wu | weizhi | IPLOOK |  |  |
| Mr. | Wu | Xiaobo | vivo Communication Technology |  |  |
| Mr. | Xie | Baoguo | ZTE Corporation |  |  |
| Mr. | Xie | Zhenhua | vivo Mobile Communication Co., |  |  |
| Mr. | Xie | Zhonghuai | China Unicom |  |  |
| Dr. | Xin | Tingyu | Samsung R&D Institute UK |  |  |
| Mr. | Xing | TianQi | China Unicom |  |  |
| Mr. | Xiong | Chunshan | CICT |  |  |
| Miss | Xu | Jiayi | China Mobile Com. Corporation |  |  |
| Mrs. | Xu | Ling | ZTE Corporation |  |  |
| Ms. | Xu | Yishan | Huawei Technologies R&D UK |  |  |
| Dr. | Yang | Hyun-Koo | Samsung Electronics Co., Ltd |  |  |
| Dr. | Yang | Ning | Guangdong OPPO Mobile Telecom. |  |  |
| Dr. | Yao | Ge | China Unicom |  |  |
| Ms. | Yi | Haofan | BJTU |  |  |
| Mrs. | Yin | Yujian | China Mobile Com. Corporation |  |  |
| Mr. | Yip | Eric | Samsung Electronics Co., Ltd |  |  |
| Dr. | Yoon | Joonhee | LG Electronics Inc. |  |  |
| Mr. | You | Shilin | ZTE Corporation |  |  |
| Dr. | Zhang | Amy | vivo Japan KK |  |  |
| Mr. | zhang | dejun | Douyin |  |  |
| Miss | Zhang | Juan | Qualcomm Korea |  |  |
| Mr. | ZHANG | Kefeng | Qualcomm Incorporated |  |  |
| Ms. | Zhang | Yuan | ZEKU |  |  |
| Miss | ZHAO | HUAN | China Unicom |  |  |
| Dr. | Zhao | Shuai | Intel |  |  |
| Ms. | Zheng | Shaowen | China Mobile Com. Corporation |  |  |
| Mr. | Zhou | Runze | Huawei Technologies France |  |  |
| Mr. | Zhou | Xutao | vivo Communication Technology |  |  |
| Mr. | Zhu | Fenqin | HUAWEI TECHNOLOGIES Co. Ltd. |  |  |
| Mr. | Zhu | Jinguo | ZTE Corporation. |  |  |
| Mrs. | Zhu | Wenruo | HuaWei Technologies Co., Ltd |  |  |
| Mr. | ZHU | ZHENGYUAN | Pengcheng laboratory |  |  |
| Dr. | Zia | Waqar | Apple Marketing Iberia | Yes |  |
| Mr. | Zisimopoulos | Haris | Qualcomm Technologies Int |  |  |
| Mr. | Zwingmann | Holger | umlaut |  |  |

Annex B – Final Tdoc allocation

**Legend for Tdocs:**

* **Color: not-yet processed**, **processed**, **late**, **~~withdrawn~~**, **moved to a different A.I.**, **under email agreement, postponed, agreed in SWG, 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 | MBS: 754pp (CT3) -> postponedCAPIF: 756pp (SA6) -> postponedEVEX: 759 (SA) -> draft reply in 868a (plenary), 963pp (SA6) -> postponed (respond from AH call ?) |
| 8.4 | Issues for immediate consideration |  |
| 8.5 | CRs to features in Release 17 and earlier | 26.501: 907->964a (plenary), 908->967a (plenary), 887n26.512: 771->968a (plenary), 976a (plenary), 888n26.117: 789a&790a (plenary)26.502: 873->969->1041a (plenary), 889->970->1040a (plenary)26.532: 777->973a (plenary)26.517: 869->974a (plenary), 803->975e, 870n, 1001e~~906~~ |
| 8.6 | SR\_MSE (Split Rendering Media Service Enabler) | Updates: 796->978 (plenary)Architecture: 788n, 892nPixel streaming: 797->1005aRendering API: 798->1004aSession ctl: 799->1003aConfig. API: 925aTP: 1052 (plenary)TR 26.565: 1053 (plenary) |
| 8.7 | 5GMS\_Ph2 (5G Media Streaming Architecture Phase2) | M3: 769a (plenary)Low latency: 770->979 (plenary)Multiple manifests: 785->981a (plenary)Uplink: 787->982a (plenary), 861m (979)NA: 806->984a (plenary)LS to CT3: 1051 (plenary)Service URL: 814->985 (plenary), 860m (985)5GMS over MBS: 815->986a (plenary)WIS: 1018e (plenary) |
| 8.8 | FS\_SmarTAR (Feasibility Study on Smartly Tethering AR Glasses) | TR 26.806: 819->1024 (plenary), 820a813a847->1029a853a, 854->1021a |
| 8.9 | FS\_MS\_NS\_Ph2 (Study on Media Streaming aspects of Network Slicing Phase 2) | 871n927n930n929n928n938->1037->1048a (plenary)932n~~933~~TP : 934a (plenary) |
| 8.10 | Other Rel-18 matters including TEI | New WID: 816->1012 (plenary)RVQoE: 857n |
| 8.11 | New Work / New Work Items and Study Items | Messaging: 916->1035a (plenary) |
| 8.12 | Review of the future work plan (next meeting dates, hosts) | 852a (plenary)3GPP SA4 MBS SWG Telco (June 29, 2023, 15:30 – 17:30 CEST, Host Qualcomm)3GPP SA4 MBS SWG Telco (July 13, 2023, 15:30 – 17:30 CEST, Host Qualcomm)3GPP SA4 MBS SWG Telco (July 27, 2023, 15:30 – 17:30 CEST, Host Qualcomm) - 1630-1730 Joint with 5G-MAG3GPP SA4 MBS SWG Telco (August 10, 2023, 15:30 – 17:30 CEST, Host Qualcomm) |
| 8.13 | Any Other Business |  |
| 8.14 | Close of the session |  |

# Annex C - SWG Tdoc status

## C.1 Agree or endorsed (not presented to SA4 plenary)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Agenda item sort order** | **MBS Agenda item** | **Plenary Agenda item** | **TDoc Status** | **Revised to** |
| S4-230975 | [5MBP3] General Updates and Corrections | Qualcomm Incorporated | 31 | 8.5 |   | endorsed |  |
| S4-231001 | [5MBP3] Correction of parameter usage for Byte Range Object Repair | Ericsson LM | 31 | 8.5 |   | endorsed |  |
| [**S4-230925**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230925.zip) | [SR\_MSE] On SR configuration API and view configuration | Xiaomi Communications | 32 | 8.6 |   | **agreed** |  |
| S4-231003 | [SR\_MSE] pCR on signaling for SR session control | Qualcomm Incorporated | 32 | 8.6 |   | agreed |  |
| S4-231004 | [SR\_MSE] SR Rendering API | Qualcomm CDMA Technologies | 32 | 8.6 |   | agreed |  |
| S4-231005 | [SR\_MSE] Pixel Streaming Media Profile | Qualcomm CDMA Technologies | 32 | 8.6 |   | agreed |  |
| [**S4-230813**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230813.zip) | [FS\_SmarTAR] Key Issue #5: Compute distribution across UE and network for tethered glasses | Qualcomm incorporated | 34 | 8.8 |   | **agreed** |  |
| [**S4-230820**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230820.zip) | [FS\_SmarTAR] Proposed Finalization of TR | Qualcomm Tech. Netherlands B.V | 34 | 8.8 |   | **agreed** |  |
| [**S4-230853**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230853.zip) | General corrections and editorial modifications  | Nokia | 34 | 8.8 |   | **agreed** |  |
| S4-231021 | Call flows for standalone AR glasses-based device architecture | Nokia  | 34 | 8.8 |   | agreed |  |
| [**S4-231029**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-231029.zip) | [FS\_SmarTAR] Methods for achieving desired end-to-end packet error rate and bit rate | Qualcomm Technologies Ireland | 34 | 8.8 |   | **agreed** |  |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Agenda item sort order** | **MBS Agenda item** | **Plenary Agenda item** | **TDoc Status** | **Revised to** |
| [**S4-230868**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230868.zip) | Reply LS on alignment of activities on UE data collection, reporting and event exposure | BBC, Qualcomm Incorporated | 29 | 8.3 | 5.2 | **agreed** |  |
| [**S4-230789**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230789.zip) | Corrections to references | Dolby Laboratories Inc. | 31 | 8.5 | 13 | **agreed** |  |
| [**S4-230790**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230790.zip) | Corrections to references | Dolby Laboratories Inc. | 31 | 8.5 | 13 | **agreed** |  |
| S4-230964 | [5GMSA, TEI17] Feature description | BBC | 31 | 8.5 | 13 | agreed |  |
| S4-230967 | [5GMSA] Feature description | BBC | 31 | 8.5 | 13 | agreed |  |
| S4-230968 | [5GMS3, TEI17] Rel-17 corrections | BBC | 31 | 8.5 | 13 | agreed |  |
| S4-230973 | [EVEX] Data Reporting Configuration Inclusion of Data Sampling Rules and Data Reporting Rules | Qualcomm Incorporated, BBC | 31 | 8.5 | 13 | agreed |  |
| S4-230974 | [5MBP3] Manifest format for Object Collection and Carousel | Nokia, BBC, Ericsson | 31 | 8.5 | 13 | agreed |  |
| S4-230976 | [5GMS3] Rel-16 corrections | BBC | 31 | 8.5 | 13 | agreed |  |
| S4-231040 | [5MBUSA] Object Distributuion Method and notification event corrections | Ericsson LM, BBC, Nokia | 31 | 8.5 | 13 | agreed |  |
| S4-231041 | Security mechanisms for MBS traffic | Huawei, HiSilicon, BBC, Ericsson LM | 31 | 8.5 | 13 | agreed |  |
| [**S4-230769**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230769.zip) | [5GMS\_Ph2] 5GMS AS configuration via M3 | BBC | 33 | 8.7 | 14.10 | **agreed** |  |
| S4-230981 | [5GMS\_Ph2] Multiple-manifest: Improvements on the multiple manifest downlink streaming call flow | Tencent Cloud | 33 | 8.7 | 14.10 | agreed |  |
| S4-230982 | [5GMS\_Ph2] Uplink Streaming: editorial correction | Tencent Cloud | 33 | 8.7 | 14.10 | agreed |  |
| S4-230984 | [5GMS\_Ph2] Data collection for ANBR-based NA | Sony Europe B.V., BBC | 33 | 8.7 | 14.10 | agreed |  |
| S4-230986 | [5GMSA\_Ph2] 5GMS over 5MBS | Qualcomm Incorporated, BBC, Tencent, Ericsson | 33 | 8.7 | 14.10 | agreed |  |
| S4-231018 | [5GMS\_Ph2] Work Item Summary | Tencent Cloud | 33 | 8.7 | 14.10 | endorsed |  |
| S4-230934 | [FS\_MS\_NS\_Ph2] Proposed Updated Time and Work Plan | Samsung Electronics Benelux BV | 35 | 8.9 | 15.5 | agreed |  |
| S4-231048 | LS on network slice replacement procedure | Samsung Electronics Benelux BV | 35 | 8.9 | 15.5 | agreed |  |
| [**S4-230852**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230852.zip) | [5GMS\_Pro\_Ph2] Draft Work Plan | Qualcomm Tech. Netherlands B.V | 38 | 8.12 | 17 | **agreed** |  |

## C.3 Other status (not presented to SA4 plenary)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Agenda item sort order** | **MBS Agenda item** | **Plenary Agenda item** | **TDoc Status** | **Revised to** |
| [**S4-230771**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230771.zip) | [5GMS3] Rel-17 corrections | BBC | 31 | 8.5 |   | **revised** | [**S4-230968**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452220) |
| [**S4-230777**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230777.zip) | [EVEX] Data Reporting Configuration Inclusion of Data Sampling Rules and Data Reporting Rules | Qualcomm Incorporated, BBC | 31 | 8.5 |   | **revised** | [**S4-230973**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452228) |
| [**S4-230803**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230803.zip) | [5MBP3] General Updates and Corrections | Qualcomm Incorporated | 31 | 8.5 |   | **revised** | [**S4-230975**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452249) |
| [**S4-230869**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230869.zip) | [5MBP3] Manifest format for Object Collection and Carousel | Nokia, BBC, Ericsson | 31 | 8.5 |   | **revised** | [**S4-230974**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452232) |
| [**S4-230870**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230870.zip) | Correction on length of FSA ID | Huawei, HiSilicon | 31 | 8.5 |   | **noted** |  |
| [**S4-230873**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230873.zip) | Security mechanisms for MBS traffic | Huawei, HiSilicon | 31 | 8.5 |   | **revised** | [**S4-230969**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452224) |
| [**S4-230889**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230889.zip) | [5MBUSA] Object Distributuion Method and notification event corrections | Ericsson LM, BBC, Nokia | 31 | 8.5 |   | **revised** | [**S4-230970**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452225) |
| S4-230906 | [5GMSA] Feature description and dynamic policies for low-latency media streaming | Qualcomm Incorporated, BBC, Tencent | 31 | 8.5 |   | withdrawn |  |
| [**S4-230907**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230907.zip) | [5GMSA] Feature description | BBC | 31 | 8.5 |   | **revised** | [**S4-230964**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452216) |
| [**S4-230908**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230908.zip) | [5GMSA] Feature description | BBC | 31 | 8.5 |   | **revised** | [**S4-230967**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452219) |
| S4-230969 | Security mechanisms for MBS traffic | Huawei, HiSilicon | 31 | 8.5 |   | revised | [**S4-231041**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452680) |
| S4-230970 | [5MBUSA] Object Distributuion Method and notification event corrections | Ericsson LM, BBC, Nokia | 31 | 8.5 |   | revised | [**S4-231040**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452678) |
| [**S4-230788**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230788.zip) |  [SR\_MSE] Architecture improvements and alignment | Tencent Cloud | 32 | 8.6 |   | **noted** |  |
| [**S4-230796**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230796.zip) | [SR\_MSE] General updates to TS26.565 | Qualcomm CDMA Technologies | 32 | 8.6 |   | **revised** | [**S4-230978**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452262) |
| [**S4-230797**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230797.zip) | [SR\_MSE] Pixel Streaming Media Profile | Qualcomm CDMA Technologies | 32 | 8.6 |   | **revised** | [**S4-231005**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452458) |
| [**S4-230798**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230798.zip) | [SR\_MSE] SR Rendering API | Qualcomm CDMA Technologies | 32 | 8.6 |   | **revised** | [**S4-231004**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452457) |
| [**S4-230799**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230799.zip) | [SR\_MSE] pCR on signaling for SR session control | Qualcomm Incorporated | 32 | 8.6 |   | **revised** | [**S4-231003**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452452) |
| [**S4-230892**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230892.zip) | [SR\_MSE] Correction of the architecture | Ericsson GmbH, Eurolab | 32 | 8.6 |   | **noted** |  |
| S4-230978 | [SR\_MSE] General updates to TS26.565 | Qualcomm CDMA Technologies | 32 | 8.6 |   | reserved | [**S4-231075**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452850) |
| [**S4-230770**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230770.zip) | [5GMS\_Ph2] Feature description and dynamic policies for low-latency media streaming | Qualcomm Incorporated, BBC, Tencent | 33 | 8.7 |   | **revised** | [**S4-230979**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452272) |
| [**S4-230785**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230785.zip) | [5GMS\_Ph2] Multiple-manifest: Improvements on the multiple manifest downlink streaming call flow | Tencent Cloud | 33 | 8.7 |   | **revised** | [**S4-230981**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452277) |
| [**S4-230787**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230787.zip) | [5GMS\_Ph2] Uplink Streaming: editorial correction | Tencent Cloud | 33 | 8.7 |   | **revised** | [**S4-230982**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452278) |
| [**S4-230806**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230806.zip) | [5GMS\_Ph2] Data collection for ANBR-based NA | Sony Europe B.V. | 33 | 8.7 |   | **revised** | [**S4-230984**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452283) |
| [**S4-230814**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230814.zip) | [5GMS\_Ph2] Service URL Handling | Qualcomm Incorporated, BBC | 33 | 8.7 |   | **revised** | [**S4-230985**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452286) |
| [**S4-230815**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230815.zip) | [5GMSA\_Ph2] 5GMS over 5MBS | Qualcomm Incorporated, BBC, Tencent, Ericsson | 33 | 8.7 |   | **revised** | [**S4-230986**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452290) |
| [**S4-230860**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230860.zip) | [5GMS\_Ph2] Service URL Handling clarifications | Tencent | 33 | 8.7 |   | **merged** |  |
| [**S4-230861**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230861.zip) | [5GMSA\_Ph2] Dynamic policies service points for uplink streaming | Tencent Cloud | 33 | 8.7 |   | **merged** |  |
| [**S4-230887**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230887.zip) | [5GMS\_Ph2] Network Assistance feature for throughput prediction | Nokia | 33 | 8.7 |   | **noted** |  |
| [**S4-230888**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230888.zip) | [5GMS\_Ph2] Network Assistance API for throughput prediction | Nokia | 33 | 8.7 |   | **noted** |  |
| [**S4-230819**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230819.zip) | [FS\_SmarTAR] Editor's Proposed Updates | Qualcomm Tech. Netherlands B.V | 34 | 8.8 |   | **revised** | [**S4-231024**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452535) |
| [**S4-230847**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230847.zip) | [FS\_SmarTAR] Methods for achieving desired end-to-end packet error rate and bit rate | Qualcomm Technologies Ireland | 34 | 8.8 |   | **revised** | [**S4-231029**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452625) |
| [**S4-230854**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230854.zip) | Call flows for standalone AR glasses-based device architecture | Nokia  | 34 | 8.8 |   | **revised** | [**S4-231021**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452531) |
| [**S4-230871**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230871.zip) | Candidate solution for network slice migration when multiple slices provisioned | Huawei, HiSilicon | 35 | 8.9 |   | **noted** |  |
| [**S4-230927**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230927.zip) | [FS\_MS\_NS\_Ph2] Survey of Network Operators on Network Slicing | Samsung Electronics Benelux BV | 35 | 8.9 |   | **noted** |  |
| [**S4-230928**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230928.zip) | [FS\_MS\_NS\_Ph2] Key Issue #3: Moving media flows to other slices | Samsung Research America | 35 | 8.9 |   | **noted** |  |
| [**S4-230929**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230929.zip) | [FS\_MS\_NS\_Ph2] Key Issue on impact of Network Slice data rate limitations on media streaming procedures | Samsung Electronics Benelux BV | 35 | 8.9 |   | **noted** |  |
| [**S4-230930**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230930.zip) | [FS\_MS\_NS\_Ph2] Key Issue on Slice selection for M5 requests | Samsung Research America | 35 | 8.9 |   | **noted** |  |
| [**S4-230932**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230932.zip) | [FS\_MS\_NS\_Ph2] Issues for consideration in FS\_MS\_NS\_Ph2 study | Samsung Electronics Benelux BV | 35 | 8.9 |   | **noted** |  |
| S4-230933 | [FS\_MS\_NS\_Ph2] Draft TR 26.941 v0.6.0 | Samsung Electronics Benelux BV | 35 | 8.9 |   | withdrawn |  |
| [**S4-230938**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230938.zip) | LS on network slice replacement procedure | Samsung Electronics Benelux BV | 35 | 8.9 |   | **revised** | [**S4-231037**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452668) |
| S4-231037 | LS on network slice replacement procedure | Samsung Electronics Benelux BV | 35 | 8.9 |   | revised | [**S4-231048**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452705) |
| [**S4-230816**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230816.zip) | New WID for 5G Media Streaming Protocols Phase 2 | Qualcomm incorporated, Tencent, Orange, BBC, Sony Europe B.V., Dolby Laboratories, Inc., AT&T | 36 | 8.10 |   | **revised** | [**S4-231012**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452504) |
| [**S4-230857**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230857.zip) | Discussion buffer level threshold-based RVQoE reporting | Apple | 36 | 8.10 |   | **noted** |  |

## C.4 Other status (presented to SA4 plenary)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Agenda item sort order** | **MBS Agenda item** | **Plenary Agenda item** | **TDoc Status** | **Revised to** |
| S4-231052 | SR\_MSE Time Plan v0.5.0 | Rapporteur | 32 | 8.6 | 14.8 | reserved |  |
| S4-231053 | Draft TS 26.565 v0.4.0 | Qualcomm Incorporated | 32 | 8.6 | 14.8 | reserved |  |
| S4-230979 | [5GMS\_Ph2] Feature description and dynamic policies for low-latency media streaming | Qualcomm Incorporated, BBC, Tencent | 33 | 8.7 | 14.10 | reserved | [**S4-231089**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452944) |
| S4-230985 | [5GMS\_Ph2] Service URL Handling | Qualcomm Incorporated, BBC | 33 | 8.7 | 14.10 | reserved | [**S4-231076**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1452852) |
| S4-231024 | TR 26.806 v1.3.0 | Qualcomm Tech. Netherlands B.V | 34 | 8.8 | 15.4 | reserved |  |
| S4-231012 | New WID for 5G Media Streaming Protocols Phase 2 | Qualcomm Incorporated, Tencent, Orange, BBC, Sony Europe B.V., Dolby Laboratories, Inc., AT&T, HuaWei Technologies Co., Ltd, Ericsson | 37 | 8.11 | 17 | reserved |  |
| S4-231051 | LS on data collection and reporting in TS 26.501 | Sony Group Corporation | 87 | 8.7 | 14.10 | reserved |  |

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