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

**Title: Report from MBS SWG during SA4#126**

**Document for: Approval**

**Agenda item: 12.2**

MBS SWG Minutes during SA4#126

## 8.1 Opening of the session

Mr. Frédéric Gabin (Dolby, Chairman of MBS16 SWG) opens the sessions on 13 November 2023 at 16:00 (local time Chicago).

Prakash Kolan (Samsung), Iraj Sodagar (Tencent), Thomas Stockhammer (Qualcomm), and Spencer Dawkins (Tencent) are assigned as scribes.

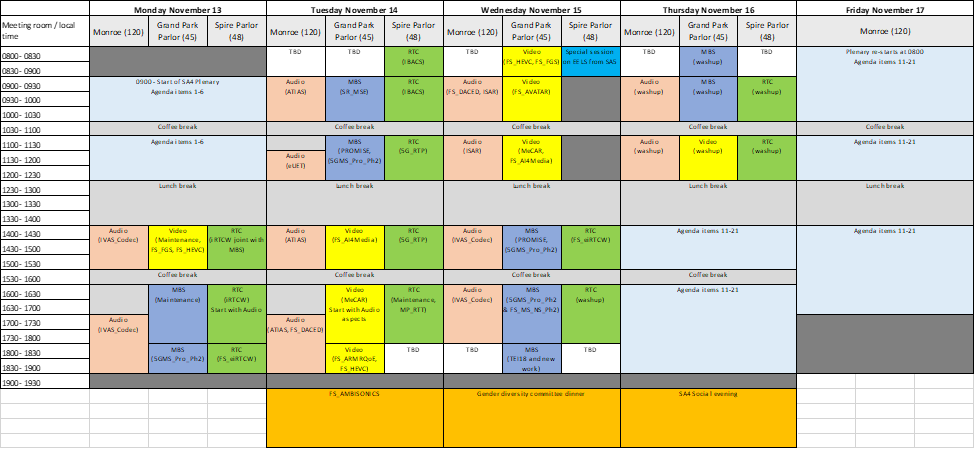
The minutes are shared [MBS SWG Minutes during SA4#126](https://docs.google.com/document/d/1wZ1_1Eg5xk-P5W9aZHheh4K7JB_3Lz24T79RM-AliJk/edit?usp=sharing)

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=ind2311B&L=3GPP\_TSG\_SA\_WG4\_MBS

**SA4 Schedule:**

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The agenda and the registration of documents are agreed.

## 8.2 Registration of documents

|  |  |  |  |
| --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Agenda item** |
| [**S4-231601**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231601.zip) | IETF HTTP RFCs obsoleted by RFCs 9110, 9111 and 9113 | CT4 | 8.3 |
| [**S4-231602**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231602.zip) | Reply LS on network slice replacement procedure | SA2 | 8.3 |
| [**S4-231608**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231608.zip) | Reply LS on MBS communication service | RAN3 | 8.3 |
| [**S4-231613**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231613.zip) | Reply LS on area scope for QoE measurements | RAN2 | 8.3 |
| [**S4-231628**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231628.zip) | [5GMS\_Ph2] Addition of Background Data Transfer feature | BBC, Qualcomm Incorporated | 8.10 |
| [**S4-231629**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231629.zip) | [5GMS\_Ph2] Cascaded uplink-downlink media streaming collaboration | BBC, Tencent | 8.10 |
| [**S4-231630**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231630.zip) | [5GMS\_Ph2] Adjustment of baseline parameters for 3GPP Service URL | BBC | 8.10 |
| [**S4-231631**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231631.zip) | [5GMS3, TEI17] Essential maintenance | BBC | 8.5 |
| [**S4-231632**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231632.zip) | [5GMS3] Essential maintenance | BBC | 8.5 |
| [**S4-231633**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231633.zip) | [5GMS\_Pro\_Ph2] Event exposure APIs | BBC | 8.8 |
| [**S4-231634**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231634.zip) | [5GMS\_Pro\_Ph2] 5GMS AS configuration procedures and APIs at M3 | BBC | 8.8 |
| [**S4-231635**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231635.zip) | [5GMS\_Pro\_Ph2] Remove M1, M5 and M6 procedures and APIs | BBC | 8.8 |
| [**S4-231636**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231636.zip) | [5GMS\_Pro\_Ph2] Rel-18 API changes to support 3GPP Service URL | BBC | 8.8 |
| [**S4-231637**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231637.zip) | [5GMS\_Pro\_Ph2] TS 26.512 Rel-17 change tracker | BBC | 8.8 |
| [**S4-231638**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231638.zip) | [5GMS\_Pro\_Ph2] TS 26.510 V0.2.0 editor's draft | BBC | 8.8 |
| [**S4-231640**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231640.zip) | [5GMS\_Ph2, RTC] Discussion on media reference architecture | BBC | 8.10 |
| [**S4-231641**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231641.zip) | [5GMS\_Pro\_Ph2] Discussion on OpenAPI design | BBC | 8.8 |
| [**S4-231642**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231642.zip) | [5GMS\_Pro\_Ph2] Discussion on session-oriented refactoring of Media Session Handling API | BBC | 8.8 |
| [**S4-231643**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231643.zip) | Clarification on data reporting methods | Samsung | 8.10 |
| [**S4-231647**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231647.zip) | Liaison statement on Messaging media application format (PROMISE) [SC 29/WG 3 N 1090] | ISO/IEC JTC 1/SC 29/WG 3 | 8.3 |
| [**S4-231652**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231652.zip) | [5GMS\_Pro\_Ph2] Uplink Streaming: content publishing and egest | Tencent, BBC | 8.8 |
| [**S4-231653**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231653.zip) | [5GMS\_Pro\_Ph2] Improvements on Background Data Transfer in 5GMS | Tencent Cloud | 8.8 |
| [**S4-231654**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231654.zip) | [5GMS\_Pro\_Ph2] Multiple Service Entry & Uplink streaming: media entry point | Tencent Cloud | 8.8 |
| [**S4-231655**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231655.zip) | [5GMS\_Pro\_Ph2] 26.510 Refactoring Service Access information | Tencent Cloud | 8.8 |
| [**S4-231656**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231656.zip) | [5GMS\_Pro\_Ph2] 26.510: Discussion on session ids scope and lifetime | Tencent Cloud | 8.8 |
| [**S4-231657**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231657.zip) | [SR\_MSE] Frequency and threshold sampling for pose reporting | Tencent Cloud | 8.6 |
| [**S4-231658**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231658.zip) | [5GMS\_Ph2] Addition the dynamic policies invocation for uplink streaming | Tencent Cloud | 8.10 |
| S4-231668 | [PROMISE] Work Plan 0.4 | Dolby Laboratories Inc. | 8.7 |
| [**S4-231669**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231669.zip) | CR 26.140-0021r4 Updates to codecs and formats (Rel-18) | Dolby Laboratories Inc. | 8.7 |
| S4-231670 | Draft TS 26.143 Messaging Media profiles v0.1.1 | Dolby Laboratories Inc. | 8.7 |
| [**S4-231673**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231673.zip) | On future topics for media delivery | Dolby Laboratories Inc. | 8.11 |
| [**S4-231677**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231677.zip) | [5GMSA] ANBR-based NA | Sony Europe B.V. | 8.10 |
| [**S4-231681**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231681.zip) | [5GMS\_Pro\_Ph2] Proposed Updates to Permanent Document | Qualcomm Incorporated | 8.8 |
| [**S4-231682**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231682.zip) | [SR\_MSE] Updates to Media Capabilities | Qualcomm Incorporated | 8.6 |
| [**S4-231683**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231683.zip) | [5GMS\_Pro\_Ph2] Updated Work Plan | Qualcomm Incorporated | 8.8 |
| S4-231684 | [5GMS\_Pro\_Ph2] Service URL Handling | Qualcomm Incorporated | 8.8 |
| [**S4-231685**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231685.zip) | [5GMS\_Pro\_Ph2] Low-Latency Streaming and Dynamic Policies | Qualcomm Incorporated, Ericsson | 8.8 |
| [**S4-231686**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231686.zip) | [5GMS\_Pro\_Ph2] 5GMS over MBS and 5GMS hybrid services | Qualcomm Incorporated | 8.8 |
| [**S4-231687**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231687.zip) | [5GMS\_Pro\_Ph2] Multiple media service entry points | Qualcomm Incorporated | 8.8 |
| [**S4-231688**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231688.zip) | [PROMISE] Background on 5G Messaging, IETF MIMI and MPEG MeMAF | Qualcomm Incorporated, Dolby Laboratories | 8.7 |
| [**S4-231689**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231689.zip) | [PROMISE] Proposed Way Forward on PROMISE Work Item | Qualcomm Incorporated | 8.7 |
| [**S4-231690**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231690.zip) | [PROMISE] Proposed Updates to Media Capabilities | Qualcomm Incorporated | 8.7 |
| [**S4-231691**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231691.zip) | [PROMISE] Proposed Scope for TS 26.143 | Qualcomm Incorporated | 8.7 |
| S4-231699 | [5MBP3] General Updates and Corrections | Qualcomm Incorporated, BBC, Ericsson | 8.5 |
| [**S4-231700**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231700.zip) | FEC-OTI-Maximum-Source-Block-Length for FEC Compact-No-Code | Qualcomm Incorporated, BBC | 8.5 |
| [**S4-231703**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231703.zip) | [5GMSA] ANBR-based NA | Sony Europe B.V. | 8.5 |
| [**S4-231704**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231704.zip) | [5GMSA] ANBR-based NA | Sony Europe B.V. | 8.5 |
| [**S4-231710**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231710.zip) | Updates to TS26.565 | Qualcomm Germany | 8.6 |
| [**S4-231713**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231713.zip) | [SR\_MSE] Device capabilities metadata | Tencent Cloud | 8.6 |
| [**S4-231753**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231753.zip) | [5GMS\_Pro\_Ph2]: Extending 5GMS with Oauth 2.0 support | Ericsson LM | 8.8 |
| [**S4-231754**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231754.zip) | [5GMS\_Pro\_Ph2] Traffic Identification | Ericsson LM | 8.8 |
| [**S4-231755**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231755.zip) | [5GMS3] Correction of Server Certificate handling | Ericsson LM | 8.5 |
| [**S4-231762**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231762.zip) | [DRAFT] LS Reply on area scope for QoE measurements | Huawei, HiSilicon | 8.3 |
| [**S4-231763**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231763.zip) | Stage 3 MBS security support | Huawei, HiSilicon | 8.5 |
| [**S4-231780**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231780.zip) | [SR\_MSE] Split-rendering SRC and SRS negotiations | Nokia UK | 8.6 |
| [**S4-231781**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231781.zip) | Split-rendering session relocation | Nokia UK | 8.6 |
| [**S4-231786**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231786.zip) | Notification channel for MSH | Qualcomm Germany | 8.8 |
| [**S4-231788**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231788.zip) | [FS\_MS\_NS\_Ph2]KI#5: Interoperability considerations for communication between AF instances | Nokia UK | 8.9 |
| [**S4-231789**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231789.zip) | [FS\_MS\_NS\_Ph2]KI#2: Realising dynamic policies using different slices | Nokia UK | 8.9 |
| [**S4-231791**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231791.zip) | CR on Defining the Notification Channel to the MSH | Qualcomm Germany | 8.8 |
| [**S4-231796**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231796.zip) | [SR\_MSE] pCR reorganizing Split rendering User Plan | InterDigital Finland Oy | 8.6 |
| [**S4-231798**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231798.zip) | [SR\_MSE] Pose correction parameters for split-rendering | Nokia Corporation | 8.6 |
| [**S4-231799**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231799.zip) | [SR\_MSE] pCR on timing information for Latency Metrics | InterDigital Finland Oy | 8.6 |
| [**S4-231800**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231800.zip) | [SR\_MSE] pCR pose and fov | InterDigital Finland Oy | 8.6 |
| [**S4-231801**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231801.zip) | [SR\_MSE] pCR Space format | InterDigital Finland Oy | 8.6 |
| [**S4-231802**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231802.zip) | pCR on description of output format | Qualcomm Germany | 8.6 |
| [**S4-231827**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231827.zip) | [PROMISE] Discussion on PROMISE formats | Apple, Samsung | 8.7 |
| [**S4-231834**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231834.zip) | [5GMS\_Pro\_Ph2] 26.510: Uplink streaming improvements on draft 0.1.0 | Tencent Cloud | 8.8 |
| [**S4-231841**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231841.zip) | [5GMS\_Pro\_Ph2] ANBR-based network assistance data reporting | Sony Europe B.V., BBC | 8.8 |
| [**S4-231843**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231843.zip) | [5GMS\_Pro\_Ph2] ANBR-based network assistance data reporting | Sony Europe B.V., BBC | 8.8 |
| [**S4-231844**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231844.zip) | [FS\_MS\_NS\_Ph2] Discussion on adopting study agreements into stage-3 specification | Samsung Electronics Nordic AB | 8.9 |
| [**S4-231846**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231846.zip) | [FS\_MS\_NS\_Ph2] pCR on Conclusions and recommendations | Samsung Electronics Nordic AB | 8.9 |
| [**S4-231851**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231851.zip) | [FS\_MS\_NS\_Ph2] Way forward on network slice replacement | Samsung Electronics Nordic AB | 8.9 |
| S4-231852 | [FS\_MS\_NS\_Ph2] Draft TR 26.941 v1.1.0 | Samsung Electronics Nordic AB | 8.9 |
| S4-231853 | [FS\_MS\_NS\_Ph2] Proposed Updated Time and Work Plan | Samsung Electronics Nordic AB | 8.9 |
| [**S4-231854**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231854.zip) | [5GMS\_Pro\_Ph2] Add HTTP-3 as allowed protocol in 26.512 | Tencent | 8.8 |
| [**S4-231871**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231871.zip) | [PROMISE] Updates on lighting extension for scenes | Xiaomi Communications | 8.7 |
| [**S4-231872**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231872.zip) | [SR\_MSE] Depth buffer format based on MeCAR capabilities | Xiaomi Communications | 8.6 |
| [**S4-231882**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231882.zip) | [5MBP3] General Updates and Corrections | Qualcomm Incorporated, BBC, Ericsson | 8.5 |
| [**S4-231883**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231883.zip) | [SR\_MSE] Alignment between MeCAR and Split Rendering MSE for metadata definition | Xiaomi Communications | 8.6 |

## 8.3 Reports/Liaisons from other groups/meetings

### 8.3.1 Incoming LSs

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231601](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231601.zip) | IETF HTTP RFCs obsoleted by RFCs 9110, 9111 and 9113 | CT4 | Dongwook Kim |

**Presenter**: Frederic Gabin

**Online Discussion**:

* Richard: I think we already did it on 517 and 532
* Frederic: At this stage, we send it to plenary. Make rapporteurs check the spec
* Thomas: Does anybody understand functional differences with obsolete ones?
* Frederic: CT4 conducted analysis. We don't do it blindly. We should look into our specs
* Thomas: What will be good if CT4 attach their analysis
* Frederic: Sent to plenary

**Decision**:

[S4-231601](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231601.zip) **goes to plenary for action**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231602](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231602.zip) | Reply LS on network slice replacement procedure | SA2 | Dongwook Kim |

**Presenter**: Prakash

**Online Discussion**:

**Decision**:

[S4-231602](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231602.zip) is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231608](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231608.zip) | Reply LS on MBS communication service | RAN3 | Dongwook Kim |

**Presenter**: Richard Bradbury

**Online Discussion**:

* No comments

**Decision**:

* Noted

[S4-231608](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231608.zip) is **noted**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231613](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231613.zip) | Reply LS on area scope for QoE measurements | RAN2 | Dongwook Kim |

**Presenter**: Richard Bradbury

**Online Discussion**:

* No comments

**Decision**:

[S4-231631](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231631.zip) is **agreed**.

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| --- | --- | --- | --- |
| [S4-231647](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231647.zip) | Liaison statement on Messaging media application format (PROMISE) [SC 29/WG 3 N 1090] | ISO/IEC JTC 1/SC 29/WG 3 | Antoine Burckard |

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Ed: Is there a use case for this?
* Thomas: It is about all the work we are doing under the PROMISE work item.
* Frederic: This is not publicly distributed content. It is private distribution - either personal or enterprise
* Frederic: To me, it is good that we have the prospect of MeMAF. I think we should give a positive answer to MPEG
* Thomas: My preference is not to reply, just attend the meeting if we can. We can send LS later if need be.
* Frederic: Okay, I’ll update the timeplan with information about this meeting.
* Gille: If Fredric is planning to attend MPEG adhoc telco, can you check if you can speak on behalf of 3GPP
* Frederic: I can attend the meeting as a rapporteur. I can update the status to our group after the meeting

**Decision**:

* Noted

[S4-231647](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231647.zip) is **noted**.

### 8.3.2 Proposed Responses

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231762](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231762.zip) | [DRAFT] LS Reply on area scope for QoE measurements | Huawei, HiSilicon | Qi Pan |

**Email Discussion:**

**Presenter**: Qi Pan

**Online Discussion**:

* Thomas: I do not understand the question
* Thorsten: TO my understanding, SA4 has not defined any QoE metrics for MBS. We can just simply say we do not have any support
* Qi: But we have Dash metrics.
* Frederic: To paraphrase, they are not looking at QoE of MBS. They are looking at QoE of DASH, MTSI etc.
* Thorsten: I would argue that it is not in our SA4 specifications. If you are running DASH over MBS, the MBS Client is not collecting QoE metrics of DASH
* Thomas: If you assume INACTIVE/IDLE for MBMS reception, we do not have any statement about you have a second connection to send a unicast message. I still do not understand the question
* Frederic: The question is about checking QoE metrics. If you are in IDLE/INACTIVE, the gNodeB cannot check. SO, the UE AS layer is checking. However, there is a difference of opinions on how that is done. How about we say, if we are in IDLE/ACTIVE there is no checking of locationFilter.
* Thomas: We have no understanding at SA4 level.
* Frederic: Do we have a view?
* Qi: I would prefer to leave this to AS layer.
* Freeric: That is not the question.
* Qi: In my LS reply, I indicate that it is acceptable meaning that we have the locationFilter, but it is not used.
* Thorsten: Can we have a simplified response? This long answer might leave to confusion, so issue may not be resolved. Maybe just have a simple answer.

**Decision**:

[S4-231762](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231762.zip) is **revised to 1905 which is agreed**.

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| [S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231762.zip)905 | [DRAFT] LS Reply on area scope for QoE measurements | Huawei, HiSilicon | Qi Pan |

**Email Discussion:**

**Presenter**: Qi Pan

**Online Discussion**:

* No comments

**Decision**:

[S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231762.zip)905 is **agreed**.

## 8.4 Issues for immediate consideration

none

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

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| [S4-231631](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231631.zip) | [5GMS3, TEI17] Essential maintenance | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* No comments

**Decision**:

* Agreed

[S4-231631](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231631.zip) is **agreed**.

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| [S4-231632](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231632.zip) | [5GMS3] Essential maintenance | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* No comments

**Decision**:

* Agreed

[S4-231632](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231632.zip) is **agreed**.

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| [S4-231700](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231700.zip) | FEC-OTI-Maximum-Source-Block-Length for FEC Compact-No-Code | Qualcomm Incorporated, BBC | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Frederick: CR template need to check impact boxes
* Richard: Better to just remove the reference in 3r change
* Frederick: This is a only a requirement on the BMSC right?
* Thomas: It may not impact much on the UE
* Frederick: Just check Core network impact in CR header
* Thomas: Had a question about the work item code
* Frederick: Who got the source block length greater than 65535? It is testing, or is it the use case?
* Thomas: I think it is the testing
* Frederic: I would argue to just do Rel-17, You need to find the code to add beside TEI17

**Decision**:

[S4-231631](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231631.zip) is **revised to 1902 is agreed.**

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| [S4-231703](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231703.zip) | [5GMSA] ANBR-based NA | Sony Europe B.V. | Paul Szucs |

**Email Discussion:**

**Presenter**: Paul Szucs

**Online Discussion**:

* Paul: Fixing the inconsistencies of the 501 wrt ANBR for uplink and downlink streaming for R16.

**Decision**:

* Needs revision, content agreed

[S4-231703](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231703.zip) is **revised to 1900 which is agreed.**

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| [S4-231704](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231704.zip) | [5GMSA] ANBR-based NA | Sony Europe B.V. | Paul Szucs |

**Email Discussion:**

**Presenter**: Paul Szucs

**Online Discussion**:

* Paul: Fixing the inconsistencies of the 501 wrt ANBR for uplink and downlink streaming for R17

**Decision**:

[S4-231704](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231704.zip) is **merged to 1900 which is agreed.**

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| [S4-231677](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231677.zip) | [5GMSA] ANBR-based NA | Sony Europe B.V. | Paul Szucs |

**Email Discussion:**

**Presenter**: Paul Szucs

**Online Discussion**:

* Paul: Fixing the inconsistencies of the 501 wrt ANBR for uplink and downlink streaming for R18.
* See above - needs to be a mirror

**Decision**:

* Needs revision, content agreed

[S4-231677](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231677.zip) is **revised to 1901 which is agreed.**

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| [S4-231755](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231755.zip) | [5GMS3] Correction of Server Certificate handling | Ericsson LM | Thorsten Lohmar |

**Email Discussion:**

**Presenter**: Thorsten Lohmar

**Online Discussion**:

* r01\_BBC is presented
* Thorsten: In clause 4.3.6.3, Richard mentions there is a contradiction. Not sure what the contradiction is
* Richard: There is a contradiction. There is a lot more work to do.
* Thorsten: Okay, let's work on a solution in next revision
* Thorsten: According to Richard, I am not sure if there can be a UE application without setting up service
* Richard: Yes, there can be UE application, and there may not be a 5G system
* Thorsten: In X.3, why is this step 6 optional?
* Richard: Maybe the cname is already there in the DNS.
* Thorsten: My assumption is that in X.2, step 3 cannot be done before Step 2
* Thorsten: There are lot of implementation assumptions.
* Thorsten: If people agree, this can be a Rel-16 correction as well
* Frederick: My feeling is that this is not an essential correction. So, it may be okay to fix this just for Rel-17. Making it consistent and fix both Rel-16 and Rel-17 is fine. Leave it to you
* Thorsten: If anybody sees a need, I can work on Rel-16 correction
* Richard: Agree with Fred. It is probably not an essential correction
* Frederick: Can you check offline. See if the corrections to be also done for Rel-16. If yes, make it category F for Rel-16. For Rel-17, it is category A
* Richard: It will be nice to see if this can go into Rel-18 as well.
* Thorsten: revision 5 is ready. BBC to be added. Two new annexes are added for allocating server certificates. The other changes are clarification and renaming.
* Richard: It is fine.

**Decision**:

[S4-231755](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231755.zip) is **revised to 1904 which is agreed**.

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| [S4-231904](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231755.zip) | [5GMS3] Correction of Server Certificate handling | Ericsson LM | Thorsten Lohmar |

**Email Discussion:**

**Presenter**: Thorsten Lohmar

**Online Discussion**:

**Decision**:

[S4-231904](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231755.zip) is.

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| [S4-231763](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231763.zip) | Stage 3 MBS security support | Huawei, HiSilicon | Qi Pan |

**Email Discussion:**

**Presenter**: Qi Pan

**Online Discussion**:

* r01 is presented
* Thorsten: I think we probably don't need the backOfMode. My recommendation would be to only focus on key management. It is fine to keep 2G GBA
* Qi: The backOfMode is also define in 26.346 specification. I don't have a strong opinion. Just want to align with MBS security
* Richard: Referencing an existing specification for user plan procedure is fine. Maybe you just need to add an extra clause to define the API. The data types need to start with capital letter, you got my suggestion the other way around. All the parameter names should be in lower case, and data types should start with capital letters. Also, you need to mark these properties are Required. Or, are they optional? I dont know.
* Qi: This whole MBS security feature is optional.
* Richard: Sure, understand. The five sub-properties are required right if MBS security is used.
* Frederic: I am not super happy that a stage-3 spec refers to stage-2. Because stage-2 is not for implementation.
* Richard: The purpose of cross reference is to tie stage-3 to stage-2 parameter. Don’t see the problem
* Frederic: A stage-3 spec should not reference a stage-2 spec
* Thomas: But problem is, if you do a small change in stage-2, then you need to change stage-3
* Frederic: True
* Frederic: Also, this contribution is quite late. Needs to justified as a correction. It is like adding a feature, not a feature. To me, this is more risky that stage-3 referencing stage-2. Just say MBS security is broken. Make it look like a correction

**Decision**:

[S4-231763](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231763.zip) is **revised to 1903 which is endorsed.**

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| [S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231763.zip)903 | Stage 3 MBS security support | Huawei, HiSilicon | Qi Pan |

**Email Discussion:**

**Presenter**: Qi Pan

**Online Discussion**:

* Thorsten: Text is clear, better to change the naming
* Richard: suggest few fixes in yaml.

**Decision**:

[S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231763.zip)903 is endorsed with the intention of merging with CR001.

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| [S4-231882](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231882.zip) | [5MBP3] General Updates and Corrections | Qualcomm Incorporated, BBC, Ericsson | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Thomas: Have a similar problem as 1763 where stage-3 references stage-2.
* Frederic: An option is just copy text from stage-2 that accurately represents what you want to reference instead of referencing stage-2 spec
* Fred: in plenary, we need to give the power to MBS adhoc to approve for SA.

**Decision**:

[S4-231882](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231882.zip) is **endorsed**.

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

*WID:*[*SP-220685*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220685.zip) *WID on Split Rendering Media Service Enabler (SR\_MSE)*

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| [S4-231657](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231657.zip) | [SR\_MSE] Frequency and threshold sampling for pose reporting | Tencent Cloud | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Imed: I think having frequency indication is good. I struggle with deltas. We should not get into deltas. We prefer that we steadily get pose information, even small, is fine.
* Iraj: If there is small amount of change and the application cannot use, is it still okay?
* Imed: Yes
* Iraj: That is wastage of bandwidth. But that's fine
* Throsten: Is there any definition of what pose means? Is there any other specification what pose means?
* Imed: I think MECAR does, maybe we need to bring it here
* Thorsten: Atleast put a reference
* Thorsten: My mental model is that pose information is more like a request rather than a report. Is it something like QoE reporting?
* Iraj: Maybe we should call it pose rate? Maximum pose rate?
* Frederic: Can you clarify the units?
* Thorsten: For pose rates, is it just a number ?
* Iraj: Instead of defining frequency or hertz, why not have an interval?
* Imed: You have view configuration, meaning pose is captured for different views. Does that mean you want to capture pose for every configuration?
* Iraj: I don't know. It is the use case

**Decision**:

[S4-231657](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231657.zip) is **revised to 1911 which is agreed**.

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| [S4-231682](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231682.zip) | [SR\_MSE] Updates to Media Capabilities | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

We agree with the approach to reference MeCAR for SR profiles but we are waiting for the MeCAR device type in TS to finalize. We also agree to use smart phone device type for 2D.

**Decision**:

[S4-231682](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231682.zip) is **revised to 2011 to be presented in plenary**.

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| [S4-231710](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231710.zip) | Updates to TS26.565 | Qualcomm Germany | Imed Bouazizi |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Iraj: Was there any specific parameters in clause 7.2 for split rendering that have to be added to resource in 113 for RTC-1?
* Imed: I checked the object, and it seems it is only a collection like other resources. It has a policy template, edge resources etc. It is now time to move stuff, especially procedures. We can start cleaning up 565
* Thorsten: In 7.1, last bullet, trusted application servers, I would like to remove it
* Imed: That's the configuration information, for example stun servers, turn servers etc. Maybe we should rephrase that.
* THorsten: I am reluctant about edge resources. I do not want to move forward with this unspecified way.
* Imed: This is an unfair comment. If you have issue with edge procedures in 512, we should fix that. However, we cannot do split rendering without edge
* Thorsten: I am not saying you should not do edge,
* Iraj: Using edge is one option. Lets complete here, so at least we have one option. I don't think we should mandate
* Frederic: Do offline discussion on trusted application servers, and edge procedures

**Decision**:

[S4-231710](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231710.zip) is **revised to 1909 which is agreed.**

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| [S4-231713](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231713.zip) | [SR\_MSE] Device capabilities metadata | Tencent Cloud | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Rufael: Is it necessary to signal these capabilities
* Iraj: For simplification, for first version, we said device will signal its capabilities
* Thomas: Do we have SDP anywhere? Why would be do this here and not in SDP
* Frederic: For WebRTC
* Thomas: WHy not we do in MECAR
* Imed: Signaling profile is fine. It already includes video capabilities. Other parameters I don't know why we need them. For now, it is fine for first parameter, but need justification for all others
* Iraj: If a device supports more than pixel streaming, they can be included there. Those capabilities go here
* Thomas: There is also an annex with this information
* Frederic: There is consensus for profile and not others.

**Decision**:

* Revision to include only the profile

[S4-231713](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231713.zip) is **revised to 1912 which is agreed. It will get incorporated into the configuration.**

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| [S4-231780](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231780.zip) | [SR\_MSE] Split-rendering SRC and SRS negotiations | Nokia UK | Daniel Philip VENMANI |

**Email Discussion:**

**Presenter**: Daniel Philip VENMANI

**Online Discussion**:

* Imed: In call flow, this seems to be completely different that what we have. All discovery is done by SRC, application is not involved. Purpose of MSE is it takes care of all details and app is not to be worried. Then I see you establish a connection, before configuration. That is wrong. I am not sure why we are rewriting this completely? On, adding capabilities themselves, I think Iraj’s contribution touched on. I would like to understand why SRS needs to know what cores, capabilities a device has. I don't expect SRC to have access to this information anyway. I don't think we should support a full list here
* Daniel: In current TS, we have ligh level call flow. We are going deep into this call flow for step-5. From our point of view, the client is reaching the server for connection setup. Once they have an understanding between each other, the server will ask the client if I am able to do what you are asking for. For this point, the proposal includes the list of capabilities sent by the client to the server. After this happens, 7 and 8 follow. On the capabilities, I am open to add more, or remove whatever you want to know. From my perspective, the server should know what client capabilities are
* Iraj: I believe that level of capability information makes it much harder for app on edge to figure out what needs to be done. To me, it is not practical to share that much information with the server
* Frederic: There is no consensus on the proposal
* Iraj: The second change is a useful paragraph in terms of general.
* Frederic: Lets try to revise the second change, and not reference the call flow. Other changes are not agreed.

**Decision**:

[S4-231780](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231780.zip) is **revised to 1914 which is agreed**.

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| [S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231780.zip)914 | [SR\_MSE] Split-rendering SRC and SRS negotiations | Nokia UK | Daniel Philip VENMANI |

**Email Discussion:**

**Presenter**: Daniel Philip VENMANI

**Online Discussion**:

* Fred It is 8.4
* Imed: is this referring to the existing call flow
* Daniel: yes.

**Decision**:

[S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231780.zip)914 is **agreed**.

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| [S4-231781](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231781.zip) | Split-rendering session relocation | Nokia UK | Daniel Philip VENMANI |

**Email Discussion:**

**Presenter**: Daniel Philip VENMANI

**Online Discussion**:

* Imed: Is this aligned with SA6 and SA4 context relocation procedure that we defined? More fundamentally, this is split rendering. If you relocate, you break the whole experience. ACR is bad from the start.
* Thibaud: What you describe is what can typically happen during split rendering. To me, it is a basic feature, and when it happens, there should be support for relocation from one SRS to other
* Frederic: The WI objectives points to relocation configuration
* Imed: SRS is a edge AS. We have three types of relocation configurations. The configuration we have right now is not allowed. If we switch from one SRS to another, there will be interruption of service. We already documented it.
* Thorsten: When you are doing edge, are we doing SA2 edge or SA6 edge?
* Imed: These questions are very late. We have edge support documented in 512. The assumption was we have already done edge. We re use it.
* Iraj: For first specification, we wanted simple architecture. Not deal with relocation
* Thomas: I am not sure if we have to deal with detail aspects of network at this time.
* Imed: We already documented that relocation is set to not be tolerant. We want to get the basic pixel streaming to work.
* Thibaud: Where is the information about profiles?
* Imed: It is in the annex. We have pixel streaming. We can add more. But please, whatever you add, make sure it is aligned with edge. We cannot define new new aspects here

**Decision**:

[S4-231781](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231781.zip) is **noted**.

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| [S4-231796](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231796.zip) | [SR\_MSE] pCR reorganizing Split rendering User Plan | InterDigital Finland Oy | Stephane Onno |

**Email Discussion:**

**Presenter**: Stephane Onno

**Online Discussion**:

* No comments
* Frederic: I invite the editor the figure

**Decision**:

[S4-231796](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231796.zip) is **agreed**.

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| [S4-231798](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231798.zip) | [SR\_MSE] Pose correction parameters for split-rendering | Nokia Corporation | Thibaud Biatek |

**Email Discussion:**

**Presenter**: Thibaud Biatek

**Online Discussion**:

* Imed: I don't understand the reasoning behind this change. There seems to be an assumption that the client is doing the correction. It is not correct. It is XR runtime. I think you need to go to OpenXR, OpenXR. What if we add them here? They are not helpful. You are addressing the wrong crowd. You need to take to OpenXR
* Thibaud: It is about the quality of experience. You may include this information to help
* Imed: Give me one example how the API supports this
* Thibaud: I think it is useful information to remove artefacts

**Decision**:

[S4-231798](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231798.zip) is **noted**.

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| [S4-231799](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231799.zip) | [SR\_MSE] pCR on timing information for Latency Metrics | InterDigital Finland Oy | Stephane Onno |

**Email Discussion:**

**Presenter**: Stephane Onno

**Online Discussion**:

* Thorsten: I cannot recall there is time synchronisation requirement. So, you need to assume everything is optional.
* Stephane: Thats why we put FFS for timing information.
* Thomas: We’ve been doing the same in MECAR. I dont know why we are doing it here
* Stephane: Yes, we need to clarify
* Imed: For timestamps, it is not clear if it is wall clock time, or what time references they use. As Thomas mentioned, we need to have reference to QoE metrics MECAR or wherever else. We should not do them here. Same for reporting as well.
* Srinivas: Yes, the timing information XR report blocks are doing in 5G\_RTP currently. They are in the PD
* Imed: Okay, why are we repeating it here
* Srinivas: We are only referencing it here
* Thomas: Is it defined in the specification?
* Frederic: It is in the PD
* Srinivas: So, the format is defined in 5G\_RTP. That is to be used in split rendering.
* Imed: Why don't you define the full XR block there in 5G\_RTP?
* Srinivas: 5G\_RTP is only about format, how it is transported. It is SR\_MSE job to define the metrics
* Imed: I am still confused. There is json block. How it maps to RTC. We need more time.
* Frederic: There is no consensus
* Stephan: There is a revision that was agreed in offline. We agreed to move to the QoE section.
* Imed: yes this is relevant for QoE with proper references.

**Decision**:

[S4-231799](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231799.zip) is **revised to 2007 which was agreed**.

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| [S4-231800](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231800.zip) | [SR\_MSE] pCR pose and fov | InterDigital Finland Oy | Stephane Onno |

**Email Discussion:**

**Presenter**: Stephane Onno

**Online Discussion**:

* Imed: This is good. Highly unlikely that FOV changes during the session. We support this

**Decision**:

[S4-231800](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231800.zip) is **agreed**.

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| [S4-231801](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231801.zip) | [SR\_MSE] pCR Space format | InterDigital Finland Oy | Stephane Onno |

**Email Discussion:**

**Presenter**: Stephane Onno

**Online Discussion**:

* Iraj: Is trackable type, I thought the three values came from XR. Now more are coming from MPEG SD. That is mean that OpenXR need to be extended to support them?
* []: Not, extending the OpenXR> The application will use them
* Imed: To get pose information, you need information about the space. I understand you want to support AR. WE are talking about basic split rendering, pixel streaming here. If you want to do AR support in split rendering, we need to be able to track more spaces. In my opinion, this allows negotiation of application spaces. Still struggling, why are you doing AR in split rendering. Atleast now? We may do it later. I would think, for AR, you would need more
* []: For glTF, do you want to render in device or in the cloud?
* Frederic: It is bit beyond our current scope right?
* Gaille: WE need wider discussion on split rendering. Some say basic pixel streaming, some say more. There is a contribution that talks about AR. We need clear contribution about split rendering covers
* Thomas: We have spaces in MECAR right? We should not invent anything here
* Gaille: in offline it was noted.

**Decision**:

[S4-231801](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231801.zip) is **noted**.

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| [S4-231802](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231802.zip) | pCR on description of output format | Qualcomm Germany | Imed Bouazizi |

**Email Discussion:**

**Presenter**: Imed Bouazizi

**Online Discussion**:

* Gaille: how do you access the prerendered content?
* Imed: the scene description points to the RTP streams
* Gaille: it seems not a reference.
* Imed: We have that in the rendering extension
* Gaile: the reference [2] needs to be [3]. Since this is root node, if you have more nodes how do you the composition
* Imed: you just render the node and the goal is not to mix it with other profiles.
* Gaile: we need to make it clear that in this profile there is a single root node. Let’s add it as a note in the spec. The editor can add the note.
* Ghazi: the references are wrong. Needs update. I had a contribution for 3D streaming and the response is we will do it for future.
* Imed: this is for simple 3D profile that is future proof. We can put it in the profile.
* Gaile: I don’t think that this is generic.
* Imed: we can move this to Annex C in the profiles.

**Decision**:

[S4-231802](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231802.zip) is **agreed.**

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| [S4-231872](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231872.zip) | [SR\_MSE] Depth buffer format based on MeCAR capabilities | Xiaomi Communications | Emmanuel Thomas |

**Email Discussion:**

**Presenter**: No presenter

**Online Discussion**:

**Decision**:

[S4-231872](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231872.zip) is **noted**.

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| [S4-231883](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231883.zip) | [SR\_MSE] Alignment between MeCAR and Split Rendering MSE for metadata definition | Xiaomi Communications | Emmanuel Thomas |

**Email Discussion:**

**Presenter**: No presenter

**Online Discussion**:

**Decision**:

[S4-231883](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231883.zip) is **noted**.

## 8.7 PROMISE (5G-Advanced media profiles for messaging services)

*WID:* [*SP-200542*](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_100_Taipei_2023-06/Docs/SP-230542.zip) *New WID on 5G-Advanced media profiles for messaging services*

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| S4-231668 | [PROMISE] Work Plan 0.4 | Dolby Laboratories Inc. | Frederic Gabin |

**Email Discussion:**

**Presenter**: Frederic Gabin

**Online Discussion**:

**Decision**:

S4-231668 **goes to plenary**.

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| [S4-231669](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231669.zip) | CR 26.140-0021r4 Updates to codecs and formats (Rel-18) | Dolby Laboratories Inc. | Frederic Gabin |

**Email Discussion:**

**Presenter**: Frederic Gabin

**Online Discussion**:

* Thomas: There is no track format
* Frederick: No, it is not yet added. There should be RTP payload format. We need a file format for IVAS. There is this dependency, yes. We need a storage format.
* Waqar: Is there a diff with the previous version?
* Frederic: I removed square brackets for EVS.
* Saba: Can we add “For support of ANCHORS Augmented Reality” in 5.15
* Tomas:We have EVS with shall. What is the intention here?
* Frederic: Intention is to clarify. There was no statement whether wideband were mandatory or recommended. EVS codec is mandatory
* Tomas When we read this, it is a little confusing. Maybe you talk about them separately
* Frederic: The intention is to say that it is recommended to have WB or super WB. We can work offline
* Stephane: My understanding is that there is quite some legacy here. I wonder if there is time to take it further i.e. not just recommending, but take it further
* Frederic: Is there interest to mandate wideband and recommend super wideband
* Stephan: Is this going to be Rel-19 WI?
* Frederic: It is Rel-19
* Stephan: Don't we already have super wideband mandatory in MTSI? Aren’t we taking it backward?
* Tomas: SInce EVS is mandatory, it is also okay to mandate super wideband
* Yasir: Just clarification, this is about audio/speech. At Least for EVS right?

**Decision**:

[S4-2316](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231631.zip)69 is **revised to 1993**.

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| [S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231669.zip)993 | CR 26.140-0021r4 Updates to codecs and formats (Rel-18) | Dolby Laboratories Inc. | Frederic Gabin |

**Email Discussion:**

**Presenter**: Frederic Gabin

**Online Discussion**:

**Decision**:

[S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231631.zip)993 is **endorsed**.

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| S4-231670 | Draft TS 26.143 Messaging Media profiles v0.1.1 | Dolby Laboratories Inc. | Frederic Gabin |

**Email Discussion:**

**Presenter**: Frederic Gabin

**Online Discussion**:

**Decision**:

[S4-231669](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231669.zip) is **revised to 1993 which is endorsed**.

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| [S4-231688](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231688.zip) | [PROMISE] Background on 5G Messaging, IETF MIMI and MPEG MeMAF | Qualcomm Incorporated, Dolby Laboratories | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Gaille: Can you clarify what do you mean by limiting PROMISE work in REl-18?
* Thomas: I believe what is important is that we align with this. We should atleast have the idea about the timeline. Need to understand what we can fit in Rel-18, and maybe what we can add in the future
* Frederic: I dont expect MIMI to complete before end of our REl-18 timeline. MPEG work is slated to complete in July. It is not out of question to refer to this if we have a publicly accessible document by July. It is not infeasible. The question is the scope of 26143. We should have a minimal starting point, applicable to MIMI as well. I think we need 26143, may not be complete.
* Thomas: I want to collect background information, helpful for me. We need to understand what hooks we have to integrate into the service.
* Gilles: For clarification, you mentioned GSMA, IETF, MPEG. Do I understand that GSMA is a requestor for this work for capabilities? And IETF and MPEG is doing related work
* Thomas: Maybe, I am not sure, these are all execution points. All of them could be fine, but not sure now.
* Gille: Who will the customer for this specification
* Frederic: Starting point is LS with GSMA. GSMA replied that they will be happy to see MMS. I know they are looking into MIMI
* Gilles: They have a lot of background information. My observation is that their interest is as operators. Maybe at the end of day, this specification will serve multiple purposes.
* Frederic: Yes, the intention is for RCS, potentially for MMS. End of the day, it remains to be seen.

**Decision**:

[S4-231688](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231688.zip) is **agreed**.

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| [S4-231689](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231689.zip) | [PROMISE] Proposed Way Forward on PROMISE Work Item | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Waqar: Good paper, but it gathers so many things. Will it be a good idea to reference may specs referred. A little more clarity on what pieces we are picking, what are down-prioritising etc. It is not clear what we really intend to do
* Thomas: All these RFCs, we use in everyday MMS. I believe 114 plucks intp OMA. We dont need to do anything, except to look into the body. Not much work is needed here. Current devices already support RCS, 5G messaging. I do not believe we can say all of these doesn’t exist.
* Waqar: Specifically, what we need from this bullet which says long term project, even beyond Rel-18
* Frederic: I think the dependencies with MIMI etc. which may not be ready by the time Rel-18 is done
* Gaille: Do we have MIME type in 140 and 141 updated, and anything packaging is 143? It will be good if that is the goal and is crystal clear to everyone
* Frederic: That is not what the contribution is about. Thomas wanted to clarify media types are are properly reflected in work item
* Thomas: I don't believe we need to do much in 140 except the media types
* Gaille: Will 140 will have image format
* Frederic: 140, we will upgrade the capabilities for MMS. It will remain a multipart MIME for OMA. For 143, in REl-18, to support media formats and codecs, we may be able to specify MeMAF, I don't think we’ll be able to control the MIMI container format
* Thomas: Probably we would add to 143, and have reference in 140
* Waqar: We had clarifications, but it is not reflected here.

**Decision**:

[S4-231689](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231689.zip) is **revised to 1919**.

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| [S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231689.zip)919 | [PROMISE] Proposed Way Forward on PROMISE Work Item | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* No comments

**Decision**:

[S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231689.zip)919 is **agreed**.

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| [S4-231690](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231690.zip) | [PROMISE] Proposed Updates to Media Capabilities | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

**Decision**:

[S4-231690](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231690.zip) is **agreed**.

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| [S4-231691](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231691.zip) | [PROMISE] Proposed Scope for TS 26.143 | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Ahmed: I see MeMAF here. Is it mentioned anywhere?
* Thomas: I think MeMAF should be generalized, not MeMAF specific. We should generalise
* Ed: What happens if there are no policies
* Thomas: Capabilities may be something policies based
* Ed: How are the policies managed and conveyed to the user
* Thomas: We focus on the media format. If it is outside our spec we dont look into it.
* Ed: I could people misusing this, could be a problem down the road
* Frederic: Is Ahmed okay to take this offline and see if we could update it, or do you need to discuss in group
* Ahmed: Either way works, we could also discuss in the group
* Thomas: Happy to do some updates based on the discussion.
* Frederic: We will anyway review the draft of the spec at end of this meeting

**Decision**:

[S4-231691](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231691.zip) is **revised to 1958**.

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| [S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231691.zip)958 | [PROMISE] Proposed Scope for TS 26.143 | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Iraj: You assume we don't have scene description?
* SD is currently included in media type processors
* Iraj: Can we improve the wording
* Gaille: In previous CR, we added lights from Xoami. This doesn’t have the light extensions
* Frederic: It will. In next version of 143, I’ll make the correction. I will present spec tomorrow with lights correction

**Decision**:

[S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231691.zip)958 is **agreed**.

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| [S4-231827](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231827.zip) | [PROMISE] Discussion on PROMISE formats | Apple, Samsung | Waqar Zia |

**Email Discussion:**

**Presenter**: Waqar Zia

**Online Discussion**:

* SR: Samsung would like to share our concern on bringing possible security hole to 3GPP service. We know web browsers will be updated forever for security holes. Fundamental difference is that in web browsers, there is at least one user action. In case of web browsers, they maintain safe and unsafe domains. Not possible with MMS. So, it is tricky thing to consider for us. We dont have a solution yet, but would be hard to consider this at this time.
* Thomas: I dont believe this is in any documents (WI etc.). I believe it is always okay to look at security impacts. Rest is we check for security when we add technology. Hope Samsung can check when it is necessary
* Frederic: We have HTML in MMS for a long time. The work item says MMS and possible future applications. So question is what practically do you recommend
* Waqar: We are reviewing MMS codecs. We should check future presentation formats to see there are no security issues
* Waqar: If drafting an LS is useful, we should draft an LS
* Thomas: I don't see a need to send an LS. We need to have a specific thing to discuss
* Waqar: Example is there in the tdoc. For example glTF. If there is an issue with that we should look into it
* Thomas: The proposal is not that. If there is a specific issue, we can look at it. Lets do technology work, and then if there is a security issue, we can come back and look at it.
* Frederic: When we are doing something, it is always good to look at security impacts in general

**Decision**:

[S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231631.zip)827 is **agreed**.

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| [S4-231871](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231871.zip) | [PROMISE] Updates on lighting extension for scenes | Xiaomi Communications | Emmanuel Thomas |

**Email Discussion:**

**Presenter**: Emmanuel Thomas

**Online Discussion**:

* No comments

**Decision**:

[S4-231871](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231827.zip) is **agreed**.

## 8.8 5GMS\_Pro\_Ph2 (5G Media Streaming Protocols Phase 2)

*WID: SP-230976 New WID for 5G Media Streaming Protocols Phase 2*

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| [S4-231633](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231633.zip) | [5GMS\_Pro\_Ph2] Event exposure APIs | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* No comments

**Decision**:

[S4-231633](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231633.zip) is **agreed**.

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| [S4-231634](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231634.zip) | [5GMS\_Pro\_Ph2] 5GMS AS configuration procedures and APIs at M3 | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* r01 is presented
* Imed: Aren’t the CDN nodes playing as fast HTTP servers. Why do they need to expose all this? Aren’t we going too far with all of this
* Richard: The abstractions we have, I’d say that they are more than what CDN nodes need.
* Imed: Most CDNs today, I check API they offer. They are allowed to offer content preparation etc. So, it's fine. I’ll at least leave out some of them out such as this COntent Configuration. We use some kind of a proxy for this. It is usually not configured like in CDN
* Richard: We used nginx as an example. We were able to translate configuration information
* Thomas: We need a statement somewhere to say that the APIs we have defined can be translated to the APIs they need

**Decision**:

[S4-231634](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231634.zip) **is revised to 1985.**

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| [S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231634.zip)985 | [5GMS\_Pro\_Ph2] 5GMS AS configuration procedures and APIs at M3 | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

**Decision**:

[S4-231985](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231634.zip) **is endorsed.**

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| [S4-231635](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231635.zip) | [5GMS\_Pro\_Ph2] Remove M1, M5 and M6 procedures and APIs | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* r01 is presented
* Iraj: What happened to clause 5?
* Richard: Clause 5 just stays. I did not make any changes to clause 5
* Iraj: This is only the ones that are deleted. Okay. Clause 5 should also have removal and addition to new spec. So basically, clause 5 points to clause 4, and clause 4 points to [510]?
  + Richard: Yes, but lets check
* Frederic: Is M6 and API or reference point?
  + RIchard: yeah, it is always confusing
  + Iraj: Do we change in 512?
  + Frederic: That was my main concern. Clean, but potentially conflicting
* r01 presented
* Thomas: I am not sure why you say we do this first - i,e approve 512
* Richard: Fine to endorse
* Frederic: We endorse it
* Thomas: We should add a comment in cover page in v1.0.0 of 510

**Decision**:

[S4-231635](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231635.zip) is **endorsed**.

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| [S4-231636](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231636.zip) | [5GMS\_Pro\_Ph2] Rel-18 API changes to support 3GPP Service URL | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* Thomas: Should we merge the CRs to have features in one place. Dont do it now, but eventually
* Richard: Yes

**Decision**:

[S4-231636](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231636.zip) is **endorsed**.

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| [S4-231637](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231637.zip) | [5GMS\_Pro\_Ph2] TS 26.512 Rel-17 change tracker | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* No comments

**Decision**:

[S4-231637](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231637.zip) is **agreed.**

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| [S4-231638](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231638.zip) | [5GMS\_Pro\_Ph2] TS 26.510 V0.2.0 editor's draft | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

**Decision**:

[S4-231638](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231638.zip) **is revised to 1918. 1918 is further revised to 1942, which is further revised to 1950.**

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| [S4-231950](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231638.zip) | [5GMS\_Pro\_Ph2] TS 26.510 V0.2.0 editor's draft | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* Thomas: Are we sending 0.3.1 or do we do 0.4.0
* Frederic: We have to revise this anyway to remove rev marks
* Thomas: Does this already implement CT LS?
* Richard: No, we dont have a pCR to do that
* Thomas: I mean, new references to HTTP

**Decision**:

[S4-231950](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231638.zip) is **revised to 2002 which will be discussed in the plenary.**

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| [S4-231641](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231641.zip) | [5GMS\_Pro\_Ph2] Discussion on OpenAPI design | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* Thomas: This is good.
* Frederic: Idea is to progress 510 with all the features we intend to have by end of this week
* Iraj: In terms of execution, each time you add something here, you remove from 512 in other contribution
* Richard: Yes, they need to be removed from 512.
* Thomas: Maybe we should endorse, and add to PD
* This document is reopened after reviewing 1642
* Iraj: As of now, in the table, the first option with session Ids is aligned with whatever we currently have. Maybe we agree on this?
* Thomas: Do you like to pursue session-based further, and evaluate it further? Or would you say, dismiss session based and stick with design in 512
* Richard: My one reservation about abandoning it is how AF know when to initiate content preparation process. We may find another way for it. Maybe in interest of progress, we could perhaps to agee the table with only the first option in the last column
* Thomas: Sounds good. For content preparation, are sessions are needed for specific features?
* Richard: Because content prep is content hosting, it is more general I think. Maybe we could add to API later
* Iraj: Okay either way, agree either way - accept first option only, or include both and add a note that we are still discussing the second option
* Frederic: The editor can put this in square brackets
* Iraj: Thomas can put a Note
* Thomas nods

**Decision**:

* Clause 2.1 is to be added to PD. Clause 2.2 is agreed with notes from editor

[S4-231641](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231641.zip) is **agreed**.

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| [S4-231642](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231642.zip) | [5GMS\_Pro\_Ph2] Discussion on session-oriented refactoring of Media Session Handling API | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* Iraj: We probably need more discussion on this. On the other proposal you have two session ids. Should we note this for now or postpone and progress again?
* Richard: I need to progress on 510. Will help to have some agreements on this
* Iraj: One agreement that we had in offline was we have one session id
* Richard: From offline, we did not completely agree on it. Maybe we note this and go back to 1641 and agree that one
* Iraj: Yes, but I want to note that we will continue the work we started here. DOnt want to lose our work here

**Decision**:

[S4-231642](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231642.zip) is **noted**.

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| [S4-231652](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231652.zip) | [5GMS\_Pro\_Ph2] Uplink Streaming: content publishing and egest | Tencent, BBC | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Iraj: Richard had a question in email. I did not consider 510 work. Intention here is to see if we can endorse this
* Richard: It is pretty close to agreeable. We can try for this meeting
* Iraj: Do you suggest we create a new CR for media plane? ANd what are the other contributions to merge?
* Richard: I’ll send the list
* Iraj: We are gonna endorse for now. Later we generate a pCR for 510

**Decision**:

* Merge all CRs, pCRs with 26510

[S4-231652](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231652.zip) is **endorsed**.

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| [S4-231653](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231653.zip) | [5GMS\_Pro\_Ph2] Improvements on Background Data Transfer in 5GMS | Tencent Cloud | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Iraj: Imed, is there a reason not to allow multiple windows
* Imed: Periodicity allows you any amount of gap
* Iraj: I checked periodicity, can only be changed per date?
* Imed: No. You might have different time windows for different periodicity
* Iraj: If you want to all multiple windows of same date, it doesn’t allow that. You can have multiple resources, but they will be different policies
* Imed: The time window and periodicity should be array of objects. If you are changing one, you need to change other
* Qi: I checked with my CT colleague. It is only one time window
* Iraj: Lets do this offline

**Decision**:

[S4-231653](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231653.zip) is **noted**.

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| [S4-231654](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231654.zip) | [5GMS\_Pro\_Ph2] Multiple Service Entry & Uplink streaming: media entry point | Tencent Cloud | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Thomas: There is hanging paragraph in 10.3
* Frederic: The title is to be changed to Contribution Protocol rather than Protocols
* Rufael: There are two versions of DASH protocol. They are slightly different. Do you want to account for both of them
* Iraj: Intentionally did it this way
* Thomas: We have done this at other places already
* Iraj: We have done this for M2
* Richard: This is why it will be useful to merge all features so we have bigger picture
* Thomas: Now we have two identifiers for same protocol
* Iraj: As Richard suggested, we make a list, and some of them are identical, we can define a generic one rather than two separate protocols
* Richard: I created \_BBC version in drafts folder. We could use that one and create a new tdoc

**Decision**:

[S4-231654](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231654.zip) is **revised to 1971**.

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| [S4-231971](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231654.zip) | [5GMS\_Pro\_Ph2] Multiple Service Entry & Uplink streaming: media entry point | Tencent Cloud | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Richard: Suggest we endorse this and merge with other clause 10 and clause 8
* Iraj: WE need to integration of lots of endorsed CRs

**Decision**:

[S4-231971](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231654.zip) is **endorsed**.

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| [S4-231655](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231655.zip) | [5GMS\_Pro\_Ph2] 26.510 Refactoring Service Access information | Tencent Cloud | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Richard: Having a boolean will tell if it changed, but no information about what and when. In adhoc Imed mentioned that service access information is not that big enough information, so I haven't resubmitted it
* Imed: I checked with 29500. We should try to stick with REST principles.
* Iraj: I think the difference between RIchard’s and my proposal, there is little bit more process by the client to check which part of service access information is changed
* Imed: I agree, if it is too complex, there may be some value
* Imed: What throws me off is this concept of sub resources
* Richard: In Rel-17, service access information is a monolithic document. As Imed said, if it gets too complex we may look at it, maybe in Rel-19.
* Iraj: Lets note tis, and we come back to this if service access information becomes too large.

**Decision**:

[S4-231655](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231655.zip) is **noted**.

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| [S4-231656](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231656.zip) | [5GMS\_Pro\_Ph2] 26.510: Discussion on session ids scope and lifetime | Tencent Cloud | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Richard: Having an offline discussion would be fine, and objective to document in PD is fine.
* Iraj: Lets try to find a time.
* Frederic: Push for offline

**Decision**:

[S4-231656](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231656.zip) is **revised to 1996 which will be discussed in plenary**.

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| [S4-231681](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231681.zip) | [5GMS\_Pro\_Ph2] Proposed Updates to Permanent Document | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Richard: Yeah, I got a revision of material on architecture. Hopefully we can agree after our joint discussion with RTC

**Decision**:

[S4-231681](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231681.zip) is **revised to 1921**.

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| [S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231681.zip)921 | [5GMS\_Pro\_Ph2] Proposed Updates to Permanent Document | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* 1924 and 1641 were added.
* We also generate CRs for 501 (2009) and 506 (2010) that were endorsed in the previous meeting, adding BBC and Tencent.

**Decision**:

[S4-231921](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231681.zip) **is revised to 2008 which is agreed.**

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| [S4-231683](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231683.zip) | [5GMS\_Pro\_Ph2] Updated Work Plan | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Richard: Is the joint with 5G-MAG on Jan 18?
* Thomas: IF staying long is okay for them, they can also join 7th. We can propose and check

**Decision**:

[S4-231683](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231683.zip) is **agreed**.

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| S4-231684 | [5GMS\_Pro\_Ph2] Service URL Handling | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

**Decision**:

S4-231684 is **withdrawn**.

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| [S4-231685](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231685.zip) | [5GMS\_Pro\_Ph2] Low-Latency Streaming and Dynamic Policies | Qualcomm Incorporated, Ericsson | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* \_BBC version presented
* Thomas agrees with Richard’s changes in first change
* Thomas is okay with Thorsten’s changes in 8.Y
* Thomas: It is moving forward. Good to endorse this
* Rufael: If you look at DASH-IF low latency and DVB low latency, there is low-latency segments. It is little confusing to including it this way.
* Thorsten: I think it is good to add short segment option
* Thomas: It is a different operation
* Thorsten: If you like to do low latency, you can do this one or short-segments
* Thomas: I disagree. This is an interop operation. The other one is regular one
* Thorsten: Is it better to rename it?
* Rufauel: Main point is text specified is very strong
* Thorsten: Yeah, this is necessary if you want to use HTTP chunked encoding. Therefore this strong language. On other side, I agree this might be a profile for HTTP chunked encoding

**Decision**:

* BBC revision is to be used as basis for further work

[S4-231685](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231685.zip) is **revised to 1972 which is endorsed.**

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| [S4-231686](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231686.zip) | [5GMS\_Pro\_Ph2] 5GMS over MBS and 5GMS hybrid services | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

* Richard: Is clause 4.7.5, there are no changes in there. 4.7.4, once it is ported into 510
* Rufael: You still use HLS master playlist. Later we went to master variant. It will be good to be clear

**Decision**:

[S4-231686](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231686.zip) is **revised to 1973 which is endorsed**.

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| [S4-231687](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231687.zip) | [5GMS\_Pro\_Ph2] Multiple media service entry points | Qualcomm Incorporated | Thomas Stockhammer |

**Email Discussion:**

**Presenter**: Thomas Stockhammer

**Online Discussion**:

**Decision**:

[S4-231687](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231687.zip) is **withdrawn**.

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| [S4-231753](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231753.zip) | [5GMS\_Pro\_Ph2]: Extending 5GMS with Oauth 2.0 support | Ericsson LM | Thorsten Lohmar |

**Email Discussion:**

**Presenter**: Thorsten Lohmar

**Online Discussion**:

* Richard: Is the idea to obtain an authorization code, and use it subsequently in M5
* Thorsten: Yes
* Richard: Do we need this kind of security (oauth) at M5? Understand for M1. We got a security network right. What are you protecting against
* Thorsten: For example, you could have applications using policy templates of other applications that it is not intended to use
* Imed: Just to follow up, this is calls invoked my MSH, not by application. Maybe we need to dig deeper. Where will the MSH get it
* Thorsten: In 26804, we have done some scenarios. People should start looking

**Decision**:

[S4-231753](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231753.zip) is **endorsed**.

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| [S4-231754](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231754.zip) | [5GMS\_Pro\_Ph2] Traffic Identification | Ericsson LM | Thorsten Lohmar |

**Email Discussion:**

**Presenter**: Thorsten Lohmar

**Online Discussion**:

* Richard: I wonder if all of this applies equally to network assistance, not just dynamic policy? Seems you are describing half of the case here
* Thorsten: I can double check
* Richard: All of this could be equally applicable to RTC. Does this go into 510 as well?
* Thorsten: I don't mind this going into 510. However, in this case it is to be Media AS. Not strong opinion
* Frederic: It is worth checking if it applies to 510
* Imed: We have the same need for RTC. We should check if this can work for RTC. Question on whether this is really targeted to stage-3 because we do not do call flows for stage-3. What stage-3 concrete actions do we have?
* Thorsten: We have extensively discussed this, and CT group added this. I agree this is bit more on stage-2 side
* Frederic: But can you implement using this
* Thorsten: I think so

**Decision**:

[S4-231754](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231754.zip) is **endorsed**.

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| [S4-231786](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231786.zip) | Notification channel for MSH | Qualcomm Germany | Imed Bouazizi |

**Email Discussion:**

**Presenter**: Imed Bouazizi

**Online Discussion**:

**Decision**:

[S4-231786](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231786.zip) is **noted**.

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| [S4-231791](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231791.zip) | CR on Defining the Notification Channel to the MSH | Qualcomm Germany | Imed Bouazizi |

**Email Discussion:**

**Presenter**: Imed Bouazizi

**Online Discussion**:

* Richard: This is aRel-18 change. What should we do with REl-16 and 17? Should we remove this feature?
* Imed: If it is a matter of creating category F mirror CRs, I can do that
* Richard: For each delivery session, you would use subscription for the channel
* Imed: Yes
* Richard: This didn’t make much sense to me for reporting.
* Imed: I don't see a need to use this for reporting
* Richard: What is the value of having top level topic. It just might be neat to have individual topics
* Imed: Idea was to develop an envelope to carry different kinds of notifications. There could dynamic policy notifications, or even service access information that are randomly changed
* Thorsten: JWT caught mind. Why not have Oauth here? It might be worthwhile to have how to use Oauth
* Imed: Yeah, we can look into full framework
* Rufael: WHy you propose MQTT.
* Imed: It was there in the spec. We need a publish subscribe framework, available as open source. There are different variants of it. People use them

**Decision**:

[S4-231791](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231791.zip) is **noted**.

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| [S4-231834](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231834.zip) | [5GMS\_Pro\_Ph2] 26.510: Uplink streaming improvements on draft 0.1.0 | Tencent Cloud | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* \_BBC version is presented
* No comments

**Decision**:

[S4-231834](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231834.zip) is **agreed. Will be added to 1918**

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| [S4-231841](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231841.zip) | [5GMS\_Pro\_Ph2] ANBR-based network assistance data reporting | Sony Europe B.V., BBC | Paul Szucs |

**Email Discussion:**

**Presenter**: Paul Szucs

**Online Discussion**:

* Richard: Maybe we agree to merge with other CR
* Paul: Prefer to have it as a separate CR
* Richard: We cannot send this to plenary so 3GPP does not generate Rel-18 because implementors may start using the openapi. If we change them because of our work with 510, the implementors may have a problem
* Chris: WE always said implement stable version, it is not a problem
* Frederic agrees
* Iraj: We agree this CR, and then ask for update of 512 to 18.1.0 based on 510 progress
* Frederic: We agree on this CR and send it to plenary

**Decision**:

[S4-231841](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231841.zip) is **agreed**.

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| [S4-231843](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231843.zip) | [5GMS\_Pro\_Ph2] ANBR-based network assistance data reporting | Sony Europe B.V., BBC | Paul Szucs |

**Email Discussion:**

**Presenter**: Paul Szucs

**Online Discussion**:

* No comments

**Decision**:

[S4-231843](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231843.zip) is **agreed**.

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| [S4-231854](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231854.zip) | [5GMS\_Pro\_Ph2] Add HTTP-3 as allowed protocol in 26.512 | Tencent | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* Iraj: WIll this go to 510?
* Richard: Yes, half of it goes into 510, and half goes into 512
* Thomas: Why use HTTP for control plane? i.e. in 5GMS AF. We would like to understand what CT does. What is the benefit of upgrading to HTTP3 for our purposes

**Decision**:

[S4-231854](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231854.zip) is **noted**.

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

*WID:*[*SP-220675*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220675.zip) *Study on Media Streaming aspects of Network Slicing Phase 2*

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| [S4-231788](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231788.zip) | [FS\_MS\_NS\_Ph2]KI#5: Interoperability considerations for communication between AF instances | Nokia UK | Daniel Philip VENMANI |

**Email Discussion:**

**Presenter**: Daniel Philip VENMANI

**Online Discussion**:

* Showing r02

**Decision**:

* Richard: what is relevance of this contribution to the network slicing? If it was communication between different AF’s even the same slice, then it would have been more relevant.
* Daniel: We have two use cases. One case is having that the AF’s can be in same slices, and AF’s being in different slices. We answer how they can synchronized.
* Richard: maybe since they are using the same AS, that AS should be showin in the call flow.
* Daniel: the objective is to interoperate not to syncrhonize.
* Qi: This questions of synchronization is general and has no relevance to the network slices.
* Fred: no consensus.

[S4-231788](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231788.zip) is **noted**.

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| [S4-231789](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231789.zip) | [FS\_MS\_NS\_Ph2]KI#2: Realising dynamic policies using different slices | Nokia UK | Daniel Philip VENMANI |

**Email Discussion:**

**Presenter**: Daniel Philip VENMANI

**Online Discussion**:

* Thorsten: if this goes ahead, what is the conclusion on the main specification?
* Daniel: the MSH is trying the applicable dynamic policy, for this the UE needs to expose the policy templates to MSH.
* Thorsten: I need to think about it.
* Qi: What is the real gap? We want to select network slice to carry M5 dynamic policy request. It is just HTTP request. Why do we care? In either case, at which step MSH gets the network slide and how it provides info to AF for selection of a new network slice?
* Daniel: this is data to be sent and not just M5 dynamic policy. We defines the steps that MSH is getting dynamic policies from the device.
* Prakash: two questions: what slide to carry M5 info? It is not important. 2nd question is that the data is other slices.
* Richard: Maybe this is interesting, but it is not for this key issue.

**Decision**:

[S4-231789](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231789.zip) is **noted**.

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| [S4-231844](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231844.zip) | [FS\_MS\_NS\_Ph2] Discussion on adopting study agreements into stage-3 specification | Samsung Electronics Nordic AB | Prakash Kolan |

**Email Discussion:**

**Presenter**: Prakash Kolan

**Online Discussion**:

**Decision**:

[S4-231844](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231844.zip) **goes to plenary for discussion**.

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| [S4-231846](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231846.zip) | [FS\_MS\_NS\_Ph2] pCR on Conclusions and recommendations | Samsung Electronics Nordic AB | Prakash Kolan |

**Email Discussion:**

**Presenter**: Prakash Kolan

**Online Discussion**:

* Prakash: rev 1 provides recommendation per key issue, and BBC provided further improvements.
* Change 2 implements what agreed on option 1 in the 852.
* Richard: this is very good. But we need to target 26.510. We need to add an informative procedure to 501.
* Qi: Key issue 1 is missing.
* Prakash: we do not need to exchange slice information but only need os ap id.
* Richard: you are using a high level identifier instead of detail information
* Qi: I would like to get more infor. OS ap id is only defined at app, It is not a complete solution.

**Decision**:

[S4-231846](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231846.zip) **goes to plenary for discussion**.

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| [S4-231851](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231851.zip) | [FS\_MS\_NS\_Ph2] Way forward on network slice replacement | Samsung Electronics Nordic AB | Prakash Kolan |

**Email Discussion:**

**Presenter**: Prakash Kolan

Rev1 provided by BBC.

**Online Discussion**:

* Prakash: The email discussion is to keep option 1.
* Fred: goes with option 1. We agree this document with option 1.

**Decision**:

[S4-231851](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231851.zip) is **agreed (option 1)**.

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| S4-231852 | [FS\_MS\_NS\_Ph2] Draft TR 26.941 v1.1.0 | Samsung Electronics Nordic AB | Prakash Kolan |

**Email Discussion:**

**Presenter**: Prakash Kolan

**Online Discussion**:

**Decision**:

S4-231852 is.

|  |  |  |  |
| --- | --- | --- | --- |
| S4-231853 | [FS\_MS\_NS\_Ph2] Proposed Updated Time and Work Plan | Samsung Electronics Nordic AB | Prakash Kolan |

**Email Discussion:**

**Presenter**: Prakash Kolan

**Online Discussion**:

* Fred: we need to extend the work plan if we do not agree on the conclusion

**Decision**:

S4-231853 **goes to plenary for discussion**.

## 8.10 Other Rel-18 matters including TEI

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231628](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231628.zip) | [5GMS\_Ph2] Addition of Background Data Transfer feature | BBC, Qualcomm Incorporated | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* Presented r01.
* Thorsten: is this for endorsement
* Richard: for agreement.
* Thorsten: Due to my request, the API has been clarified.
* Fred: can you correct the affected clauses.

**Decision**:

[S4-231628](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231628.zip) is **revised to 1986, then revised to 2004 which is agreed.**

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231629](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231629.zip) | [5GMS\_Ph2] Cascaded uplink-downlink media streaming collaboration | BBC, Tencent | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* Iraj: can we keep 15.4
* Fred: agreed with keeping 15.4

**Decision**:

[S4-231629](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231629.zip) is **revision to 1987 which was agreed.**

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231630](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231630.zip) | [5GMS\_Ph2] Adjustment of baseline parameters for 3GPP Service URL | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

* No comments

**Decision**:

[S4-231630](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231630.zip) is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231640](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231640.zip) | [5GMS\_Ph2, RTC] Discussion on media reference architecture | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

**Decision**:

[S4-231640](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231640.zip) is **revised to 1924 which is agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231924](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231924.zip) | [5GMS\_Ph2, RTC] Discussion on media reference architecture | BBC | Richard Bradbury |

**Email Discussion:**

**Presenter**: Richard Bradbury

**Online Discussion**:

**Decision**:

[S4-231924](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231924.zip) is **agreed in joint session**.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231643](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231643.zip) | Clarification on data reporting methods | Samsung | Sapan Shah |

**Email Discussion:**

**Presenter**: Prakash Kolan

BBC version presented

**Online Discussion**:

* Richard: the changes are good one, but since SA2 already specified, the text was moved to main text and reference the SA2 documents.

**Decision**:

[S4-231643](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231643.zip) **is revised to 1991 which is agreed.**

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-23199](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231643.zip)1 | Clarification on data reporting methods | Samsung | Sapan Shah |

**Email Discussion:**

**Presenter**: Prakash Kolan

**Decision**:

[S4-231](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231643.zip)991 is **agreed.**

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231658](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231658.zip) | [5GMS\_Ph2] Addition the dynamic policies invocation for uplink streaming | Tencent Cloud | Iraj Sodagar |

**Email Discussion:**

**Presenter**: Iraj Sodagar

**Online Discussion**:

* \_BBC version is presented

**Decision**:

[S4-231658](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231658.zip) is **revised to 1984 which is revise to 2003 (goes to plenary for approval).**

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

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-231673](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231673.zip) | On future topics for media delivery | Dolby Laboratories Inc. | Frederic Gabin |

**Email Discussion:**

**Presenter**: Jeff

**Online Discussion**:

* Richard: If you are connected to 3 CDNs, do you ask the same thing from all CDNs. Is it L7, or a bit like raid striping across all CDNs? What is the idea here?
* Jeff: You can use any methods for distribution across all the CDNs.
* Richard: When a player makes a request, I guess the encoder splits the request to all the CDNs
* Jeff: We need to setup distributions in CDNs. Other than that, no changes to CDNs
* Thomas: In a broader context, you would not expect to support CMMF decoder right. This is completely over the top at the moment. If you go into 3GPP 5g context, how does it impact CDNs? Protection against outages? Multi aspects?
* Jeff: Yeah, we want to look at all of them
* Thorsten: What is root cause of all the spikes in the figure?
* Jeff: CDN is taking a long time to respond.
* Thorsten: Do you know why it takes long time?
* Jeff: Majority of the times, the servers do not respond quickly
* Thorsten: Is it replacing CMAF?
* Jeff: We can do it many ways. We go over. We are not replacing CMAF

**Decision**:

[S4-231673](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231673.zip) is **noted**.

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

## 8.13 Any Other Business

### 8.13.1 Input documents

none.

### 8.13.2 Report

Report is made available in S4-232057.

### 8.13.3 Summary from Offline Discussions

none

### 8.13.4 Output documents

See TDOC list in Annex C.

## 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 November 16, 2023 at 10:38 (local).

# Annex A: Attendees

51 participants in total, 40 in person, 11 online

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | On Site | Virtual |
| Mr. | Aracena | Mauricio | Ericsson LM | x |  |
| Dr. | Biatek | Thibaud | Nokia France |  | X |
| Dr. | Bouazizi | Imed | Qualcomm Incorporated | X |  |
| Dr. | Bradbury | Richard | BBC |  | X |
| Mr. | Burdinat | Christophe | ATEME |  | X |
| Mr. | Champel | Mary-Luc | Beijing Xiaomi Mobile Software | X |  |
| Mr. | Coban | Muhammed | Qualcomm Technologies Int | X |  |
| Dr. | Curcio | Igor | Nokia Corporation | X |  |
| Mr. | Dawkins | Spencer | Tencent |  | X |
| Mr. | Fontaine | Loic | InterDigital France R&D, SAS |  | yes |
| Mr. | Gabin | Frederic | Dolby Laboratories Inc. | Yes |  |
| Mr. | Gibellino | Diego | TELECOM ITALIA S.p.A. |  | Yes |
| Mr. | Gudumasu | Srinivas | InterDigital Communications |  | Yes |
| Mr. | Gül | Serhan | Nokia Germany | Yes |  |
| Dr. | Hamza | Ahmed | InterDigital Communications | X |  |
| Dr. | He | Xuan (Shane) | Nokia Germany | X |  |
| Mr. | Husak | Walt | Dolby Laboratories Inc. | X |  |
| Dr. | Joshi | Rajan | Samsung Research America | X |  |
| Dr. | Kolan | Prakash | Samsung Research America | X |  |
| Mr. | Kwon | WooSuk | LG Electronics Inc. | yes |  |
| Dr. | Lee | Brian | Dolby Laboratories Inc. | X |  |
| Dr. | Lee | Hakju Ryan | Samsung R&D Institute UK | X |  |
| Mr. | Lemotheux | Julien | Orange |  | X |
| Dr. | Liangping | Ma | Qualcomm Austria RFFE GmbH | X |  |
| Dr. | Lohmar | Thorsten | Ericsson LM | yes |  |
| Mrs. | Martin-Cocher | Gaelle | InterDigital, Europe, Ltd. | X |  |
| Dr. | Mekuria | Rufail | Huawei Technologies France | X |  |
| Mr. | O'Leary | Edward | Rogers Communications Canada |  | X |
| Mr. | Onno | Stephane | InterDigital France R&D, SAS | X |  |
| Mr. | Outters | Jan | ATEME |  | X |
| Dr. | Pan | Qi | HUAWEI TECHNOLOGIES Co. Ltd. | X |  |
| Mr. | Podborski | Dimitri | Apple Benelux B.V. - Belgium | X |  |
| Mr. | Potetsianakis | Emmanouil | Beijing Xiaomi Mobile Software | X |  |
| Miss | Ramazanirend | Elmira | VODAFONE Group Plc | X |  |
| Dr. | Rhyu | Sungryeul | Samsung Electronics Co., Ltd | X |  |
| Dr. | Ridge | Justin | Nokia Corporation | X |  |
| Mr. | Riedmiller | Jeffrey | Dolby Laboratories Inc. | X |  |
| Dr. | Sodagar | Iraj | Tencent | X |  |
| Dr. | Song | Jaeyeon | Samsung Electronics Co., Ltd | X |  |
| Mr. | Steck | Chris | DTS Licensing Limited | X |  |
| Mr. | Stein | Alan | InterDigital, Europe, Ltd. | X |  |
| Dr. | Stockhammer | Thomas | Qualcomm Germany | yes |  |
| Dr. | Stoica | Razvan-Andrei | Motorola Mobility Germany GmbH | yes |  |
| Mr. | Szucs | Paul | Sony Europe B.V. | X |  |
| Dr. | Tech | Gerhard | Fraunhofer HHI | X |  |
| Mr. | Teniou | Gilles | Tencent | X |  |
| Mr. | Thomas | Emmanuel | Beijing Xiaomi Mobile Software | X |  |
| Dr. | Tourapis | Alexandros | Apple GmbH | X |  |
| Dr. | Wang | Xin | MediaTek Inc. |  | yes |
| Mr. | Yip | Eric | Samsung Electronics Co., Ltd | X |  |
| Dr. | Zia | Waqar | Apple Switzerland AG | X |  |

# 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…

online meeting notes: <https://docs.google.com/document/d/1su4ZXexTeaQsvTVbzfmY98I86ICu0_O5pUUSUAVJ5H0/edit>

|  |  |  |
| --- | --- | --- |
| A.I. # | A.I. Title | Tdoc # |
| 8 | Multicast-Broadcast-Streaming (MBS) SWG |  |
| 8.1 | Opening of the session |  |
| 8.2 | Registration of documents |  |
| 8.3 | Reports/Liaisons from other groups/meetings | QoE:1608 (RAN3) -> Noted1613 (RAN2) reply in 1762->1905a (plenary)HTTP: 1601 (CT4) -> plenary for actionSlice: 1602n (SA2) -> NotedPROMISE: 1647 (ISO/IEC JTC 1/SC 29/WG 3) -> Noted |
| 8.4 | Issues for immediate consideration |  |
| 8.5 | CRs to features in Release 17 and earlier | 26.501: 1704a&1703->1900a&1677->1901a (plenary)26.512: 1632a&1631a (plenary), 1755->1904a (plenary)26.346: 1700->1902a (plenary)26.517: 1763->1903e, 1882e (power to agree at MBS AH Telco before SA)~~1699~~ |
| 8.6 | SR\_MSE (Split Rendering Media Service Enabler) | 26.565: 1710->1909a- Pose: 1657->1911a, 1798n, 1800a,- Space: 1801n- Media: 1713->1912a- Neg: 1780->1914a- reloc: 1781n- User plane: 1796a- Latency: 1799->2007a- Output: 1802a- Depth buffer: 1872n- Metadata: 1883n1682->2011 (plenary) |
| 8.7 | PROMISE (5G-Advanced media profiles for messaging services) | Disc: 1688a, 1689->1919a, 1827a26.140: 1669->1993e (plenary), 1690a26.143: 1871a, 1691->1958a, 1670 (plenary)TP: 1668 (plenary) |
| 8.8 | 5GMS\_Pro\_Ph2 (5G Media Streaming Protocols Phase 2) | GoalsSA4#126Draft TS 26.510 functionally clear v1.0.0 including list of supported featuresEndorse and/or agree Rel-18 26.512 CRsSA4#127Input: pCRs to 26.510Output: 26.510 v2.0.0Output: agreed CRs to 26.512 (new features + moved features)Disc. API: 1641a, 1642n26.512:- M1/M5/M6 del.: 1635->1917e- ANBR: 1841a (plenary)- EVEX API: 1633a (plenary)- M3: 1634->1985e- Serv. URL: 1636e- uplink streaming: 1652e- BDT: 1653n- Multi-entry: 1654->1971e- low-latency: 1685->1972e- MBS: 1686->1973e- OAuth 2.0: 1753e- Traffic ID: 1754e- Notification: 1786n, 1791n- HTTP-3: 1854n26.510 (joint session with RTC SWG) – Tuesday morning- TS: 1638->1918->1942->1950->2002 (v0.4.0 plenary)- tracker: 1637a- Service access: 1655n- Session IDs: 1656->1996 (plenary)- PD: 1681->1921->2008a (plenary)- uplink streaming: 1834a26.532:- ANBR: 1843a (plenary)TP: 1683a (plenary)~~1684, 1687~~ |
| 8.9 | FS\_MS\_NS\_Ph2 (Study on Media Streaming aspects of Network Slicing Phase 2) | 26.941:- AF interop: 1788n- Policies: 1789n- slice replacement: 1851a- conclusions: 1844 (plenary), 1846 (plenary)- v1.1.0: 1852 (plenary)TP: 1853 (plenary) |
| 8.10 | Other Rel-18 matters including TEI | 26.501:- BDT: 1628->1986->2004a (plenary)- UL/DL: 1629->1987a (plenary)- Service URL: 1630a (plenary)- policies: 1658->1984->2003 (plenary)Architecture: 1640->1924a (joint session with RTC SWG)26.531:- data reporting: 1643->1991a (plenary) |
| 8.11 | New Work / New Work Items and Study Items | Rel-19: 1673n |
| 8.12 | Review of the future work plan (next meeting dates, hosts) |  |
| 8.13 | Any Other Business |  |
| 8.14 | Close of the session |  |
| 11 | LSs received during the meeting and Postponed Liaisons (from A. I. 5) |  |
| 12 | Reports and general issues from sub-working-groups |  |
| 12.1 | Audio SWG |  |
| 12.2 | MBS SWG |  |
| 12.3 | RTC SWG | 1891, Tdoc status transfer |
| 12.4 | Video SWG |  |
| 13 | CRs to features in Release 17 and earlier | 26.501: 1901,26.512: 1632&1631 |
| 14 | Release 18 Features |  |
| 14.1 | ATIAS (Terminal Audio quality performance and Test methods for Immersive Audio Services) |  |
| 14.2 | IVAS\_Codec (EVS Codec Extension for Immersive Voice and Audio Services) |  |
| 14.3 | iRTCW (immersive Real-time Communication for WebRTC) | 26.506: 2010 |
| 14.4 | MeCAR (Media Capabilities for Augmented Reality) |  |
| 14.5 | IBACS (IMS-based AR Conversational Services) |  |
| 14.6 | eUET (Enhancements to UE Testing) |  |
| 14.7 | SR\_MSE (Split Rendering Media Service Enabler) | 2011TS: ?TP: ?Progress: 50% -> ? |
| 14.8 | 5G\_RTP (5G Real-time Transport Protocols) |  |
| 14.9 | MP\_RTT (Multiparty Real-Time Text) |  |
| 14.10 | ISAR (Immersive Audio for Split Rendering Scenarios) |  |
| 14.11 | PROMISE (5G-Advanced media profiles for messaging services) | 26.140: 199326.143: 1670TP: 1668Progress: 15% -> |
| 14.12 | 5GMS\_Pro\_Ph2 (5G Media Streaming Protocols Phase 2) | 26.512:- EVEX API: 1633- ANBR: 184126.532: 184326.510: 2002PD: 1996, 200826.501: 2009TP: 1683Progress: 25% -> |
| 14.13 | TEI18 and any other Rel-18 documents | 26.501:- BDT: 2004- UL/DL: 1987- Service URL: 1630- Policies: 200326.531:- reporting: 1991 |
| 15 | Study Items |  |
| 15.1 | FS\_AI4Media (Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media) |  |
| 15.2 | FS\_eiRTCW (Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC) |  |
| 15.3 | FS\_MS\_NS\_Ph2 (Study on Media Streaming aspects of Network Slicing Phase 2) | 26.941:- conclusions: 1844, 1846- v1.1.0: 1852TP: 1853Progress: 65% -> |
| 15.4 | FS\_ARMRQoE (Feasibility Study on AR and MR QoE Metrics) |  |
| 15.5 | FS\_DaCED (Feasibility Study on Diverse audio Capturing system for End-user Devices) |  |
| 15.6 | FS\_FGS (Feasibility Study on Film Grain synthesis) |  |
| 15.7 | FS\_HEVC\_Profiles (Feasibility Study on new HEVC profiles and operating points) |  |
| 15.8 | FS\_AVATAR (Feasibility Study on Avatars for Real-Time Communication) |  |
| 16 | Work Items and Study Items under the responsibility of other TSGs/WGs impacting SA4 work |  |
| 17 | New Work / New Work Items and Study Items | 1792 |
| 18 | Postponed issues |  |
| 19 | Review of the future work plan (next meeting dates, hosts) | MBS SWG AH Telcos:3GPP SA4 MBS SWG Telco (November 30, 2023, 15:30 – 17:30 CET, Host Qualcomm). Power to agree 26.517 CR 0001 and agree 26.143 v1.0.0 to be sent for information3GPP SA4 MBS SWG Telco (December 7, 2023, 22:00 – 24:00 CET, Host Qualcomm)3GPP SA4 MBS SWG Telco (January 11 2024, 15:30-17:30) on Rel-19 planning and Rel-18 completion. No decisions.3GPP SA4 MBS SWG Telco (January 18, 2024, 15:30 17:30 CET, Host Qualcomm), power to approve LS out. |
| 20 | Any Other Business |  |
| 21 | Close of meeting: Friday 17th November at 16:00 hours CST (at the latest) |  |

# Annex C - SWG Tdoc status

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **MBS Agenda item** | **TDoc Status** |
| [**S4-231631**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231631.zip) | [5GMS3, TEI17] Essential maintenance | BBC | 8.5 | agreed |
| [**S4-231632**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231632.zip) | [5GMS3] Essential maintenance | BBC | 8.5 | agreed |
| [**S4-231637**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231637.zip) | [5GMS\_Pro\_Ph2] TS 26.512 Rel-17 change tracker | BBC | 8.8 | agreed |
| [**S4-231641**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231641.zip) | [5GMS\_Pro\_Ph2] Discussion on OpenAPI design | BBC | 8.8 | agreed |
| [**S4-231688**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231688.zip) | [PROMISE] Background on 5G Messaging, IETF MIMI and MPEG MeMAF | Qualcomm Incorporated, Dolby Laboratories | 8.7 | agreed |
| [**S4-231690**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231690.zip) | [PROMISE] Proposed Updates to Media Capabilities | Qualcomm Incorporated | 8.7 | agreed |
| [**S4-231697**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231697.zip) | [FS\_XRTraffic] Application Layer FEC Traffic characteristics | Qualcomm incorporated | 14.13 | agreed |
| [**S4-231704**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231704.zip) | [5GMSA] ANBR-based NA | Sony Europe B.V. | 8.5 | agreed |
| [**S4-231796**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231796.zip) | [SR\_MSE] pCR reorganizing Split rendering User Plan | InterDigital Finland Oy | 8.6 | agreed |
| [**S4-231800**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231800.zip) | [SR\_MSE] pCR pose and fov | InterDigital Finland Oy | 8.6 | agreed |
| [**S4-231802**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231802.zip) | pCR on description of output format | Qualcomm Germany | 8.6 | agreed |
| [**S4-231827**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231827.zip) | [PROMISE] Discussion on PROMISE formats | Apple, Samsung | 8.7 | agreed |
| [**S4-231834**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231834.zip) | [5GMS\_Pro\_Ph2] 26.510: Uplink streaming improvements on draft 0.1.0 | Tencent Cloud | 8.8 | agreed |
| [**S4-231851**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231851.zip) | [FS\_MS\_NS\_Ph2] Way forward on network slice replacement | Samsung Electronics Nordic AB | 8.9 | agreed |
| [**S4-231871**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231871.zip) | [PROMISE] Updates on lighting extension for scenes | Xiaomi Communications | 8.7 | agreed |
| S4-231900 | [5GMSA] ANBR-based NA | Sony Europe B.V. | 8.5 | agreed |
| S4-231902 | FEC-OTI-Maximum-Source-Block-Length for FEC Compact-No-Code | Qualcomm Incorporated, BBC | 8.5 | agreed |
| S4-231909 | Updates to TS26.565 | Qualcomm Germany | 8.6 | agreed |
| S4-231911 | [SR\_MSE] Frequency and threshold sampling for pose reporting | Tencent Cloud | 8.6 | agreed |
| S4-231912 | [SR\_MSE] Device capabilities metadata | Tencent Cloud | 8.6 | agreed |
| S4-231914 | [SR\_MSE] Split-rendering SRC and SRS negotiations | Nokia UK | 8.6 | agreed |
| S4-231919 | [PROMISE] Proposed Way Forward on PROMISE Work Item | Qualcomm Incorporated | 8.7 | agreed |
| S4-231924 | [5GMS\_Ph2, iRTCW] Discussion on media reference architecture | BBC | 8.10 | agreed |
| S4-231958 | [PROMISE] Proposed Scope for TS 26.143 | Qualcomm Incorporated | 8.7 | agreed |
| S4-232007 | [SR\_MSE] pCR on timing information for Latency Metrics | InterDigital Finland Oy | 8.6 | agreed |
| S4-232044 | [FS\_XRTraffic] Application Layer FEC Traffic characteristics | Qualcomm Incorporated | 14.13 | agreed |
| S4-232048 | New reference point RTC-11 in UE | Samsung R&D Institute UK | 14.13 | agreed |
| [S4-231636](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231636.zip) | [5GMS\_Pro\_Ph2] Rel-18 API changes to support 3GPP Service URL | BBC | 8.8 | endorsed |
| [S4-231753](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231753.zip) | [5GMS\_Pro\_Ph2]: Extending 5GMS with Oauth 2.0 support | Ericsson LM | 8.8 | endorsed |
| [S4-231754](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231754.zip) | [5GMS\_Pro\_Ph2] Traffic Identification | Ericsson LM | 8.8 | endorsed |
| [S4-231882](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231882.zip) | [5MBP3] General Updates and Corrections | Qualcomm Incorporated, BBC, Ericsson | 8.5 | endorsed |
| S4-231903 | Stage 3 MBS security support | Huawei, HiSilicon | 8.5 | endorsed |
| S4-231917 | [5GMS\_Pro\_Ph2] Remove M1, M5 and M6 procedures and APIs | BBC | 8.8 | endorsed |
| S4-231971 | [5GMS\_Pro\_Ph2] Multiple Service Entry & Uplink streaming: media entry point | Tencent Cloud | 8.8 | endorsed |
| S4-231972 | [5GMS\_Pro\_Ph2] Low-Latency Streaming and Dynamic Policies | Qualcomm Incorporated, Ericsson | 8.8 | endorsed |
| S4-231973 | [5GMS\_Pro\_Ph2] 5GMS over MBS and 5GMS hybrid services | Qualcomm Incorporated | 8.8 | endorsed |
| S4-231985 | [5GMS\_Pro\_Ph2] 5GMS AS configuration procedures and APIs at M3 | BBC | 8.8 | endorsed |

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

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| **TDoc** | **Title** | **Source** | **MBS Agenda item** | **TDoc Status** | **Plenary Agenda item** |
| [**S4-231630**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231630.zip) | [5GMS\_Ph2] Adjustment of baseline parameters for 3GPP Service URL | BBC | 8.10 | agreed | 14.13 |
| [**S4-231633**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231633.zip) | [5GMS\_Pro\_Ph2] Event exposure APIs | BBC | 8.8 | agreed | 14.12 |
| [**S4-231683**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231683.zip) | [5GMS\_Pro\_Ph2] Updated Work Plan | Qualcomm Incorporated | 8.8 | agreed | 14.12 |
| [**S4-231841**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231841.zip) | [5GMS\_Pro\_Ph2] ANBR-based network assistance data reporting | Sony Europe B.V., BBC | 8.8 | agreed | 14.12 |
| [**S4-231843**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231843.zip) | [5GMS\_Pro\_Ph2] ANBR-based network assistance data reporting | Sony Europe B.V., BBC | 8.8 | agreed | 14.12 |
| S4-231905 | [DRAFT] LS Reply on area scope for QoE measurements | Huawei, HiSilicon | 8.3 | agreed | 5.3 |
| S4-231987 | [5GMS\_Ph2] Cascaded uplink-downlink media streaming collaboration | BBC, Tencent | 8.10 | agreed | 14.13 |
| S4-231991 | Clarification on data reporting methods | Samsung | 8.10 | agreed | 14.13 |
| S4-232004 | [5GMS\_Ph2] Addition of Background Data Transfer feature | BBC, Qualcomm Incorporated | 8.10 | agreed | 14.13 |

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

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| **TDoc** | **Title** | **Source** | **MBS Agenda item** | **TDoc Status** |
| [**S4-231642**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231642.zip) | [5GMS\_Pro\_Ph2] Discussion on session-oriented refactoring of Media Session Handling API | BBC | 8.8 | noted |
| [**S4-231673**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231673.zip) | On future topics for media delivery | Dolby Laboratories Inc. | 8.11 | noted |
| [**S4-231781**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231781.zip) | Split-rendering session relocation | Nokia UK | 8.6 | noted |
| [**S4-231786**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231786.zip) | Notification channel for MSH | Qualcomm Germany | 8.8 | noted |
| [**S4-231788**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231788.zip) | [FS\_MS\_NS\_Ph2]KI#5: Interoperability considerations for communication between AF instances | Nokia UK | 8.9 | noted |
| [**S4-231789**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231789.zip) | [FS\_MS\_NS\_Ph2]KI#2: Realising dynamic policies using different slices | Nokia UK | 8.9 | noted |
| [**S4-231791**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231791.zip) | CR on Defining the Notification Channel to the MSH | Qualcomm Germany | 8.8 | noted |
| [**S4-231798**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231798.zip) | [SR\_MSE] Pose correction parameters for split-rendering | Nokia Corporation | 8.6 | noted |
| [**S4-231801**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231801.zip) | [SR\_MSE] pCR Space format | InterDigital Finland Oy | 8.6 | noted |
| [**S4-231854**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231854.zip) | [5GMS\_Pro\_Ph2] Add HTTP-3 as allowed protocol in 26.512 | Tencent | 8.8 | noted |
| [**S4-231872**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231872.zip) | [SR\_MSE] Depth buffer format based on MeCAR capabilities | Xiaomi Communications | 8.6 | noted |
| [**S4-231883**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231883.zip) | [SR\_MSE] Alignment between MeCAR and Split Rendering MSE for metadata definition | Xiaomi Communications | 8.6 | noted |
| [**S4-231628**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231628.zip) | [5GMS\_Ph2] Addition of Background Data Transfer feature | BBC, Qualcomm Incorporated | 8.10 | revised |
| [**S4-231629**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231629.zip) | [5GMS\_Ph2] Cascaded uplink-downlink media streaming collaboration | BBC, Tencent | 8.10 | revised |
| [**S4-231634**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231634.zip) | [5GMS\_Pro\_Ph2] 5GMS AS configuration procedures and APIs at M3 | BBC | 8.8 | revised |
| [**S4-231635**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231635.zip) | [5GMS\_Pro\_Ph2] Remove M1, M5 and M6 procedures and APIs | BBC | 8.8 | revised |
| [**S4-231638**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231638.zip) | [5GMS\_Pro\_Ph2] TS 26.510 V0.2.0 editor's draft | BBC | 8.8 | revised |
| [**S4-231640**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231640.zip) | [5GMS\_Ph2, RTC] Discussion on media reference architecture | BBC | 8.10 | revised |
| [**S4-231643**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231643.zip) | Clarification on data reporting methods | Samsung | 8.10 | revised |
| [**S4-231654**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231654.zip) | [5GMS\_Pro\_Ph2] Multiple Service Entry & Uplink streaming: media entry point | Tencent Cloud | 8.8 | revised |
| [**S4-231656**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231656.zip) | [5GMS\_Pro\_Ph2] 26.510: Discussion on session ids scope and lifetime | Tencent Cloud | 8.8 | revised |
| [**S4-231657**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231657.zip) | [SR\_MSE] Frequency and threshold sampling for pose reporting | Tencent Cloud | 8.6 | revised |
| [**S4-231658**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231658.zip) | [5GMS\_Ph2] Addition the dynamic policies invocation for uplink streaming | Tencent Cloud | 8.10 | revised |
| [**S4-231669**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231669.zip) | CR 26.140-0021r4 Updates to codecs and formats (Rel-18) | Dolby Laboratories Inc. | 8.7 | revised |
| [**S4-231677**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231677.zip) | [5GMSA] ANBR-based NA | Sony Europe B.V. | 8.10 | revised |
| [**S4-231681**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231681.zip) | [5GMS\_Pro\_Ph2] Proposed Updates to Permanent Document | Qualcomm Incorporated | 8.8 | revised |
| [**S4-231682**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231682.zip) | [SR\_MSE] Updates to Media Capabilities | Qualcomm Incorporated | 8.6 | revised |
| [**S4-231685**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231685.zip) | [5GMS\_Pro\_Ph2] Low-Latency Streaming and Dynamic Policies | Qualcomm Incorporated, Ericsson | 8.8 | revised |
| [**S4-231686**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231686.zip) | [5GMS\_Pro\_Ph2] 5GMS over MBS and 5GMS hybrid services | Qualcomm Incorporated | 8.8 | revised |
| [**S4-231689**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231689.zip) | [PROMISE] Proposed Way Forward on PROMISE Work Item | Qualcomm Incorporated | 8.7 | revised |
| [**S4-231691**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231691.zip) | [PROMISE] Proposed Scope for TS 26.143 | Qualcomm Incorporated | 8.7 | revised |
| [**S4-231700**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231700.zip) | FEC-OTI-Maximum-Source-Block-Length for FEC Compact-No-Code | Qualcomm Incorporated, BBC | 8.5 | revised |
| [**S4-231703**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231703.zip) | [5GMSA] ANBR-based NA | Sony Europe B.V. | 8.5 | revised |
| [**S4-231710**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231710.zip) | Updates to TS26.565 | Qualcomm Germany | 8.6 | revised |
| [**S4-231713**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231713.zip) | [SR\_MSE] Device capabilities metadata | Tencent Cloud | 8.6 | revised |
| [**S4-231755**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231755.zip) | [5GMS3] Correction of Server Certificate handling | Ericsson LM | 8.5 | revised |
| [**S4-231762**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231762.zip) | [DRAFT] LS Reply on area scope for QoE measurements | Huawei, HiSilicon | 8.3 | revised |
| [**S4-231763**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231763.zip) | Stage 3 MBS security support | Huawei, HiSilicon | 8.5 | revised |
| [**S4-231780**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231780.zip) | [SR\_MSE] Split-rendering SRC and SRS negotiations | Nokia UK | 8.6 | revised |
| [**S4-231799**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231799.zip) | [SR\_MSE] pCR on timing information for Latency Metrics | InterDigital Finland Oy | 8.6 | revised |
| S4-231904 | [5GMS3] Correction of Server Certificate handling | Ericsson LM | 8.5 | revised |
| S4-231918 | [5GMS\_Pro\_Ph2] TS 26.510 V0.2.0 editor's draft | BBC | 8.8 | revised |
| S4-231921 | [5GMS\_Pro\_Ph2] Permanent Document v0.2.0 | Qualcomm Incorporated (Rapporteur) | 8.8 | revised |
| S4-231942 | [5GMS\_Pro\_Ph2] TS 26.510 V0.3.1 editor's draft | BBC | 8.8 | revised |
| S4-231950 | [5GMS\_Pro\_Ph2] TS 26.510 V0.3.1 editor's draft | BBC | 8.8 | revised |
| S4-231984 | [5GMS\_Ph2] Addition the dynamic policies invocation for uplink streaming | Tencent Cloud | 8.10 | revised |
| S4-231986 | [5GMS\_Ph2] Addition of Background Data Transfer feature | BBC, Qualcomm Incorporated | 8.10 | revised |
| S4-231996 | [5GMS\_Pro\_Ph2] 26.510: Discussion on session ids scope and lifetime | Tencent Cloud | 8.8 | revised |
| S4-231684 | [5GMS\_Pro\_Ph2] Service URL Handling | Qualcomm Incorporated | 8.8 | withdrawn |
| [**S4-231687**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231687.zip) | [5GMS\_Pro\_Ph2] Multiple media service entry points | Qualcomm Incorporated | 8.8 | withdrawn |
| S4-231699 | [5MBP3] General Updates and Corrections | Qualcomm Incorporated, BBC, Ericsson | 8.5 | withdrawn |
| S4-231988 | [5GMS\_Pro\_Ph2] Proposed Updates to Permanent Document | Qualcomm Incorporated | 8.8 | withdrawn |

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

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| **TDoc** | **Title** | **Source** | **MBS Agenda item** | **TDoc Status** | **Plenary Agenda item** |
| [**S4-231844**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231844.zip) | [FS\_MS\_NS\_Ph2] Discussion on adopting study agreements into stage-3 specification | Samsung Electronics Nordic AB | 8.9 | available | 15.3 |
| [**S4-231846**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_126_Chicago/Docs/S4-231846.zip) | [FS\_MS\_NS\_Ph2] pCR on Conclusions and recommendations | Samsung Electronics Nordic AB | 8.9 | available | 15.3 |
| **S4-231668** | [PROMISE] Work Plan 0.4 | Dolby Laboratories Inc. | 8.7 | reserved | 14.11 |
| **S4-231670** | Draft TS 26.143 Messaging Media profiles v0.1.1 | Dolby Laboratories Inc. | 8.7 | reserved | 14.11 |
| **S4-231852** | [FS\_MS\_NS\_Ph2] Draft TR 26.941 v1.1.0 | Samsung Electronics Nordic AB | 8.9 | reserved | 15.3 |
| **S4-231853** | [FS\_MS\_NS\_Ph2] Proposed Updated Time and Work Plan | Samsung Electronics Nordic AB | 8.9 | reserved | 15.3 |
| **S4-231901** | [5GMSA] ANBR-based NA | Sony Europe B.V. | 8.5 | reserved | 13 |
| **S4-231993** | CR 26.140-0021r5 Updates to codecs and formats (Rel-18) | Dolby Laboratories Inc., Qualcomm Incorporated | 8.7 | reserved | 14.11 |
| **S4-232002** | [5GMS\_Pro\_Ph2] TS 26.510 V0.4.0 editor's draft | BBC | 8.8 | reserved | 14.12 |
| **S4-232003** | [5GMS\_Ph2] Addition the dynamic policies invocation for uplink streaming | Tencent Cloud | 8.10 | reserved | 14.13 |
| **S4-232008** | [5GMS\_Pro\_Ph2] Permanent Document v0.2.0 | Qualcomm Incorporated (Rapporteur) | 8.8 | reserved | 14.12 |
| **S4-232009** | 5GMS Functions are general Media Functions | Qualcomm Incorporated, BBC, Tencent | 8.10 | reserved | 14.12 |
| **S4-232011** | [SR\_MSE] Updates to Media Capabilities | Qualcomm Incorporated | 8.6 | reserved | plenary |
| **S4-232012** | SR\_MSE Time Plan v0.6.0 | Rapporteur | 8.6 | reserved | 14.7 |
| **S4-232013** | Draft TS 26.565 v0.7.0 | Qualcomm Incorporated | 8.6 | reserved | 14.7 |

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