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

**Title: 3GPP SA4 MBS SWG report during SA4#119e**

**Document for: Approval**

**Agenda item: 13.2**

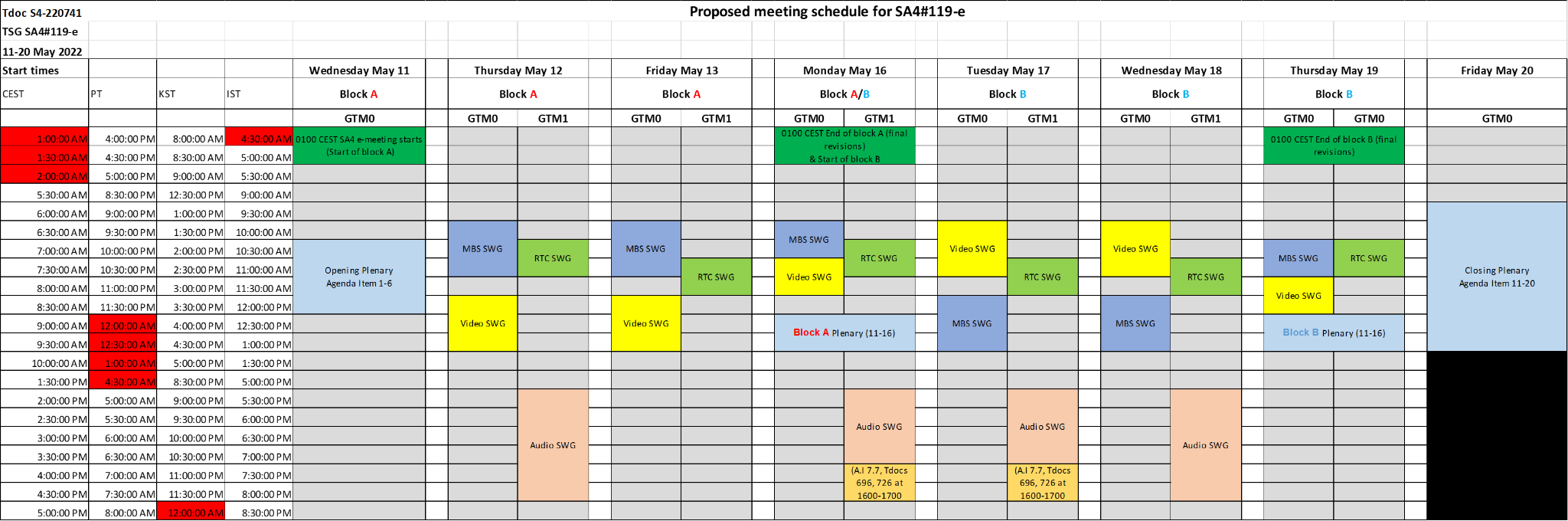
MBS SWG Minutes during SA4#119e

## 8.1 Opening of the session

Mr. Frédéric Gabin (Dolby, Chairman of MBS SWG) opens the telco sessions on 12th May 2022 at 6:30 CEST.

E-mail discussion started on Wed, 11 May 2022 08:13:08 +0000.

**SA4 Schedule:**



**Rough Plan:**

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| [Rough plan for MBS SWG telcos](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;d1e57e72.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:43:44 +0000 |

Here is a rough plan for Agenda Items per MBS session:

* May 12: EVEX, 5GMS\_EDGE\_3, Others including TEI and related LSs
* May 13: 5MBP3, Release 17 and earlier, and related LSs
* May 16: Block A wash-up
* May 17: FS\_NPN4AVProd, Block A leftovers, and related LSs
* May 18: FS\_5G\_MSE, FS\_SmarTAR, New Work, Block A leftovers, and related LSs
* May 19 – Block B wash-up

Julien Lemotheux (Orange), Qi Pan (Huawei), and Charles Lo (Qualcomm) are assigned as scribes. Mr. Thomas Stockhammer (Qualcomm) supports offline report structuring and adding e-mail agreements.

The minutes are shared [MBS SWG Minutes during SA4#119e](https://docs.google.com/document/d/12fin4BaKXOUVNlxgz94TSdyr_6prBEzKi1sEmBoGBeU/edit?usp=sharing).

Attendance is tracked [here](#4j9j98mt8z0v).

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

* https://list.etsi.org/scripts/wa.exe?A1=ind2205B&L=3GPP\_TSG\_SA\_WG4\_MBS
* https://list.etsi.org/scripts/wa.exe?A1=ind2205C&L=3GPP\_TSG\_SA\_WG4\_MBS

The agenda and the registration of documents are agreed.

## 8.2 Registration of documents

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| [MBS SWG Initial Tdoc allocation](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;df1b91a4.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 04:26:25 +0000 |
| [MBS SWG Tdoc allocation rev1](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;d3ddd548.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:57:00 +0000 |
| [MBS SWG Tdoc allocation rev2](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;d0cd097.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:29:44 +0000 |
| [MBS SWG Tdoc allocation rev3](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;e2b1f332.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 14:55:06 +0000 |

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| [MBS SWG Tdoc allocation.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/Drafts/MBS/MBS%20SWG%20Tdoc%20allocation.docx) | 5/12/2022 4:25 |
| [MBS SWG Tdoc allocation rev1.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/Drafts/MBS/MBS%20SWG%20Tdoc%20allocation%20rev1.docx) | 5/12/2022 9:55 |
| [MBS SWG Tdoc allocation rev2.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/Drafts/MBS/MBS%20SWG%20Tdoc%20allocation%20rev2.docx) | 5/13/2022 4:28 |

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| 8 | Multicast-Broadcast-Streaming (MBS) SWG |  |  |
| 8.1 | Opening of the session | A |  |
| 8.2 | Registration of documents | A |  |
| 8.3 | Reports/Liaisons from other groups/meetings | A | 656    5GMS:  699 (CT3) -> MBS SWG    5MBS:  700 (CT3) -> MBS SWG  705 (RAN2) -> MBS SWG  706 (SA2) -> MBS SWG    EVEX:  701 (CT3) -> MBS SWG  708 (SA3LI) -> MBS SWG    API: 702 (CT4) -> MBS SWG  NPN4AVPROD: 707 (SA2) -> MBS SWG    740 (DVB) -> MBS SWG |
| 8.4 | Issues for immediate consideration | A |  |
| 8.5 | CRs to completed features in Release 17 and earlier | A | 588, 625, 634, 635, 639, 655, 657, 660, 663, 665, 690, 691, 715    615, 616, ~~662~~ |
| 8.6 | EVEX (5GMS AF Event Exposure) | A | 636, 637, 638, 658, 686, 716, 717->721    719 |
| 8.7 | 5MBP3 (5G Multicast-Broadcast Protocols) | A | 589, 590, 591, 591, 592, 692, 693, 694, 695 |
| 8.8 | 5GMS\_EDGE\_3 (Edge Extensions to 5GMS Stage 3) | A | 624, 649 |
| 8.9 | FS\_NPN4AVProd (Feasibility Study on Media Production over 5G NPN) | B | 593, 687, 688, 689    720 |
| 8.10 | FS\_5G\_MSE (Feasibility Study on 5G Media Service Enablers) | B | 650    594, 595, 596, 597 |
| 8.11 | FS\_SmarTAR (Feasibility Study on Smartly Tethering AR Glasses) | B | 600, 601, 659, 661, 678    598, 599, ~~677~~ |
| 8.12 | New Work / New Work Items and Study Items | B | 692, 603, 626, 652, 713, 724 |
| 8.13 | Others including TEI | A | 679, 684, 728, 730 |
| 8.14 | Review of the future work plan (next meeting dates, hosts) | B |  |
| 8.15 | Any Other Business | B |  |
| 8.16 | Close of the session | B |  |

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| **TDoc** | **Title** | **Source** | **Agenda item** |
| [**S4-220699**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220699.zip) | Reply LS to [S4-220305](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220305.zip) on Traffic Identification within 5G Media Streaming | CT3 | 5.2 |
| [**S4-220700**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220700.zip) | Reply LS to [S4-220304](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220304.zip) on 5MBS User Services | CT3 | 5.2 |
| [**S4-220701**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220701.zip) | LS on Data Reporting API | CT3 | 5.2 |
| [**S4-220702**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220702.zip) | LS on Logical relationship between query parameters | CT4 | 5.2 |
| [**S4-220705**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220705.zip) | LS on the MBS broadcast service continuity and MBS session identification | RAN2 | 5.2 |
| [**S4-220706**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220706.zip) | Reply LS on 5MBS User Services (S2-2201959/[S4-220304](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220304.zip)) | SA2 | 5.2 |
| [**S4-220707**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220707.zip) | Reply LS on Media Production over 5G NPN ([S4-220328](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220328.zip)/ S2-2201961) | SA2 | 5.2 |
| [**S4-220708**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220708.zip) | LS reply (S4-211579-19 November 2021) on smart filtering and enhancement of LI | SA3LI | 5.2 |
| [**S4-220740**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220740.zip) | LIAISON on Content Encoding in MBMS FLUTE | DVB | 5.3 |
| [**S4-220728**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220728.zip) | Summary for FS\_5GMS\_Multicast | TELUS | 8 |
| [**S4-220730**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220730.zip) | Summary for FS\_5MBUSA | TELUS | 8 |
| [**S4-220656**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220656.zip) | draft Reply LS on Logical relationship between query parameters | Huawei, Hisilicon | 8.3 |
| [**S4-220588**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220588.zip) | [5MBUSA] Corrections to 5GMS via eMBMS | Qualcomm Incorporated | 8.5 |
| [**S4-220615**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220615.zip) | Registration of URNs | Qualcomm Incorporated | 8.5 |
| [**S4-220616**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220616.zip) | Registration of URNs | Qualcomm Incorporated | 8.5 |
| [**S4-220625**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220625.zip) | Fixing api-version in 5GMS RESTful APIs | Qualcomm Technologies Ireland | 8.5 |
| [**S4-220634**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220634.zip) | [5MBUSA] MBS User Service procedures | BBC | 8.5 |
| [**S4-220635**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220635.zip) | [5MBUSA] Additional stage 2 detail | BBC | 8.5 |
| [**S4-220639**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220639.zip) | [EVEX] [5GMS\_EDGE] Expanded downlink provisioning procedures and domain model | BBC, Qualcomm Incorporated | 8.5 |
| [**S4-220655**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220655.zip) | [5GMS3] Correction to QoE metrics reporting client configuration | BBC | 8.5 |
| [**S4-220657**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220657.zip) | CR Add DNN Slice in the QoE report schema | Huawei, Hisilicon | 8.5 |
| [**S4-220660**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220660.zip) | CR support of Group Communication Service | Huawei, Hisilicon | 8.5 |
| [**S4-220662**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220662.zip) | Security mechanisms for MBS traffic | Huawei, Hisilicon | 8.5 |
| [**S4-220663**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220663.zip) | TS 26.247 support of NR QoE feature | Huawei, Hisilicon | 8.5 |
| [**S4-220665**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220665.zip) | Security mechanisms for MBS traffic | Huawei, Hisilicon | 8.5 |
| [**S4-220690**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220690.zip) | [5MBUSA]: Various corrections around File Repair, Consumption Reporting and Reception Reporting | Ericsson LM | 8.5 |
| [**S4-220691**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip) | [5MBUSA]: Clarification of Nmb8 Protocol stacks wrt Unicast or Multicast usage. | Ericsson LM, BBC | 8.5 |
| [**S4-220715**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220715.zip) | Requirement on UE Behavior regarding QoE Measurement and Reporting | Qualcomm Incorporated | 8.5 |
| [**S4-220636**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220636.zip) | [EVEX] Data collection and reporting for 5G Media Streaming | BBC, Qualcomm Incorporated | 8.6 |
| [**S4-220637**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220637.zip) | [EVEX] Presentation of TS 26.531 V2.0.0 | BBC (editor) | 8.6 |
| [**S4-220638**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220638.zip) | [EVEX] Explanation of API data model notation | BBC | 8.6 |
| [**S4-220658**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220658.zip) | CR on use cases for newly defined 5GMS event | Huawei, Hisilicon | 8.6 |
| [**S4-220686**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220686.zip) | Discussion on Server to UE information exchange | Ericsson LM | 8.6 |
| [**S4-220716**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220716.zip) | [EVEX] Editor's Draft of TS 26.532 V1.1.1 | Qualcomm Incorporated, BBC, Ericsson LM | 8.6 |
| [**S4-220717**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220717.zip) | [EVEX] Proposed Text for Clauses 4.4, 8 and 9 | Qualcomm Incorporated, BBC and Ericsson LM | 8.6 |
| [**S4-220719**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220719.zip) | [EVEX] Proposed Work Plan for EVEX v0.5 | Qualcomm Incorporated (Rapporteur) | 8.6 |
| [**S4-220721**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220721.zip) | [EVEX] Proposed Text for Clauses 4.4, 8 and 9 | Qualcomm Incorporated, BBC and Ericsson LM | 8.6 |
| [**S4-220589**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220589.zip) | [5MBP3] xMB Extensions for 5GMS via eMBMS | Qualcomm Incorporated | 8.7 |
| [**S4-220590**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220590.zip) | [5MBP3] User Service Extensions for 5GMS via eMBMS | Qualcomm Incorporated | 8.7 |
| [**S4-220591**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220591.zip) | [5MBP3] API Extensions for 5GMS via eMBMS | Qualcomm Incorporated | 8.7 |
| [**S4-220592**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220592.zip) | [5MBP3] 5GMS Protocol Extensions for 5GMS via eMBMS | Qualcomm Incorporated | 8.7 |
| [**S4-220692**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220692.zip) | [5MBP3]: Clause 5: Corrections and additions to Service Announcement | Ericsson LM | 8.7 |
| [**S4-220693**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220693.zip) | [5MBP3]: Clause 6: Object Delivery Method | Ericsson LM | 8.7 |
| [**S4-220694**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip) | [5MBP3]: Clause 7: Packet Delivery Method updates | Ericsson LM | 8.7 |
| [**S4-220695**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220695.zip) | [5MBP3]: Feature reduced FLUTE FDT Schema | Ericsson LM | 8.7 |
| [**S4-220624**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip) | Consolidated CR on Edge | Qualcomm Technologies Ireland | 8.8 |
| [**S4-220649**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220649.zip) | [EDGE] Improved CR on edge provisioning procedures | Tencent Cloud, Qualcomm, BBC | 8.8 |
| [**S4-220687**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220687.zip) | draft TR 26.805 v1.2.1 | Ericsson India Private Limited | 8.9 |
| [**S4-220688**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220688.zip) | New SI on Media Production over 5G NPNs [SIDFS\_5G\_4\_AVProd] | Ericsson LM | 8.9 |
| [**S4-220689**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220689.zip) | [FS\_NPN4AVProd]: Proposal of a study conclusion clause | Ericsson LM | 8.9 |
| [**S4-220720**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220720.zip) | [FS\_NPN4AVProd] Solutions for KI#6 | Sennheiser Electronic GmbH | 8.9 |
| [**S4-220593**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220593.zip) | [FS\_NPN4AVProd] System features for delay sensitive flows and time synchronization | Qualcomm Incorporated | 8.10 |
| [**S4-220594**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220594.zip) | [FS\_5G\_MSE] Proposed Developer Survey | Qualcomm Incorporated | 8.10 |
| [**S4-220595**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220595.zip) | [FS\_5G\_MSE] Existing 3GPP Specifications | Qualcomm Incorporated | 8.10 |
| [**S4-220596**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220596.zip) | [FS\_5G\_MSE] External Specifications | Qualcomm Incorporated | 8.10 |
| [**S4-220597**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220597.zip) | [FS\_5G\_MSE]Proposed Time Plan | Qualcomm Incorporated | 8.10 |
| [**S4-220650**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220650.zip) | [FS\_5G\_MSE] A framework for MSE specifications and implementations | Tencent Cloud | 8.10 |
| [**S4-220598**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220598.zip) | [FS\_SmartAR] Proposed Timeplan | Qualcomm Incorporated | 8.11 |
| [**S4-220599**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220599.zip) | [FS\_SmarTAR] Proposed TR Updates | Qualcomm Incorporated | 8.11 |
| [**S4-220600**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220600.zip) | [FS\_SmarTAR] Tethering architectures | Qualcomm Incorporated | 8.11 |
| [**S4-220601**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220601.zip) | [FS\_SmarTAR] Initial Call flows | Qualcomm Incorporated | 8.11 |
| [**S4-220659**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220659.zip) | pCR Summary of WLAR work in Rel-17 | Huawei, Hisilicon | 8.11 |
| [**S4-220661**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220661.zip) | pCR QoS control for Relay AR when 5G sidelink used | Huawei, Hisilicon | 8.11 |
| [**S4-220677**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220677.zip) | pCR to TR 26.806 FS\_SmarTAR, on PIN (Personal IoT Network) overview | Dolby Laboratories Inc. | 8.11 |
| [**S4-220678**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220678.zip) | pCR to TR 26.806 FS\_SmarTAR, on PIN (Personal IoT Network) overview | Dolby Laboratories Inc. | 8.11 |
| [**S4-220602**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220602.zip) | Draft WID on 5GMS Advanced | Qualcomm Incorporated | 8.12 |
| [**S4-220603**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220603.zip) | Proposal for Rel-18 MBS WID scheduling | Qualcomm Incorporated | 8.12 |
| [**S4-220626**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220626.zip) | Draft WID on Enhancements to 5G Edge Media Processing | Qualcomm Technologies Ireland | 8.12 |
| [**S4-220652**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220652.zip) | For Information: Updated draft New WID on new 5GMS extensions | Tencent Cloud | 8.12 |
| [**S4-220713**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220713.zip) | Feasibility Study on Network Slicing Extensions | Samsung Electronics Co., Ltd., BBC, AT&T, Meta Ireland, LG Electronics Inc., TELUS | 8.12 |
| [**S4-220724**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220724.zip) | WID on new 5GMS extensions, Stage-2 (NEXT2) | Tencent Cloud | 8.12 |
| [**S4-220679**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220679.zip) | CR 26.346-0659 on Content Encoding Signaling relaxation (Rel-17) | Dolby Laboratories Inc. | 8.13 |
| [**S4-220684**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220684.zip) | DRAFT Reply to DVB TM-Mcast Liaison on Content Encoding in MBMS FLUTE | Dolby Laboratories Inc. | 8.13 |

## 8.3 Reports/Liaisons from other groups/meetings

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| [S4-220699](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220699.zip) | Reply LS to [S4-220305](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220305.zip) on Traffic Identification within 5G Media Streaming | CT3 | Jayeeta Saha |

**Online Discussion:**

* Was presented by Thorsten.
* Qi: Maybe we can wait for the SA2 reply.

**Decision:**

* Draft CR will be prepared by Thorsten.

[**S4-220699**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220699.zip)is **postponed.**

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| [S4-220700](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220700.zip) | Reply LS to[S4-220304](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220304.zip) on 5MBS User Services | CT3 | Jayeeta Saha |

**Online Discussion:**

* Was presented by Thorsten.
* Thorsten: On Question 1, the easiest would be to follow CT3.
* Richard: I agree and have some proposed text.
* Thorsten: On the second thing, it seems not clear enough. We have to review it.
* Richard: We need to improve clause 7 but it is a very big job. We can try something once my contribution is agreed.
* Frederic: Then we agree to act and respond. To be discussed during the offline today.
* Thorsten: I am OK to respond.

**Decision:**

* Will be respond in 814 by Thorsten.

[**S4-220700**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220700.zip)is **replied** to in [S4-220814](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220814.zip)**.**

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| [S4-2208](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220706.zip)14 | Reply LS to [S4-220304](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220304.zip) on 5MBS User Services |  |  |

**Online Discussion:**

* None

**Decision:**

* Goes to the plenary.

[**S4-2208**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220706.zip)**14** goes to the plenary..

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220701.zip)701 | LS on Data Reporting API | CT3 | Jayeeta Saha |

**Online Discussion:**

* Was presented by Richard. Basically followed CT3 advice to not employ RESTFul resources. Some misunderstanding between CT3 and SA4 about the resource structure.

**Decision:**

* Replied in 799.

[**S4-220701**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220701.zip)is **replied to in [S4-220799](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220799.zip).**

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| [S4-220702](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220702.zip) | LS on Logical relationship between query parameters | CT4 | Jayeeta Saha |

**E-mail Discussion:**

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| [[8.3 Liaisons from other groups; 702, 656; Block A; 12May 0600 CEST] Reply LS on Logical relationship between query parameters -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;b8efbcd5.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:13:08 +0000 |
| [[8.3 Liaisons from other groups; 702, 656; Block A; 12May 0600 CEST] Reply LS on Logical relationship between query parameters -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;c8b729bb.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 09:18:06 +0100 |
| [[8.3 Liaisons from other groups; 702, 656; Block A; 12May 0600 CEST] Reply LS on Logical relationship between query parameters -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f71fe2d2.2205B&S=) | Imed Bouazizi | Thu, 12 May 2022 02:07:36 +0000 |
| [[8.3 Liaisons from other groups; 702, 656; Block A; 12May 0600 CEST] Reply LS on Logical relationship between query parameters -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;c9a3550a.2205B&S=) | panqi (E) | Thu, 12 May 2022 02:54:16 +0000 |
| [[8.3 Liaisons from other groups; 702, 656; Block A; 12May 0600 CEST] Reply LS on Logical relationship between query parameters -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;e0759e28.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 03:43:39 +0000 |
| [[8.3 Liaisons from other groups; 702, 656; Block A; 12May 0600 CEST] Reply LS on Logical relationship between query parameters -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;aa084117.2205B&S=) | panqi (E) | Thu, 12 May 2022 10:07:32 +0000 |

**Decision:**

* Replied via emails.

[**S4-220702**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220702.zip)is **replied to** in [S4-220656](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220656.zip)**.**

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| [S4-220705](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220705.zip) | LS on the MBS broadcast service continuity and MBS session identification | RAN2 | Jayeeta Saha |

**Online Discussion:**

* Was presented by Frederic.
* Richard: They are worried about allocating too much space to TMGIs. But for the majority of sessions there will be only one TMGI.
* Thomas: On question 2, we can say we are reusing something from MBMS.
* Qi: I have found an answer from SA2 (S2-2108175).
* Frederic: Are we fine with the SA2 answer? Do we want to add anything?

**Decision:**

* Will be responded to in 815 by Thomas.

[**S4-220705**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220705.zip)is **replied** to in [S4-220815](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220815.zip)**.**

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| [S4-2208](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220706.zip)15 | LS on the MBS broadcast service continuity and MBS session identification | Qualcomm Incorporated | Thomas Stockhammer |

**Online Discussion:**

* None

**Decision:**

* Goes to the plenary

[**S4-2208**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220706.zip)**15** goes to the plenary.

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| [S4-220706](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220706.zip) | Reply LS on 5MBS User Services (S2-2201959/[S4-220304](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220304.zip)) | SA2 | Jayeeta Saha |

**Online Discussion:**

* Was presented by Thorsten.
* Thorsten: The 1st step of questions is already in the pipe. I think we don’t have to rename MBSF-external.
* Richard: The name is fine. But we could improve the introduction.
* Frederic: Is that ok to do it in an offline?
* Thorsten: MBS AS interface issue should be fixed in my contribution 690.
* Frederic: My recommendation would be to reply.
* Richard: We could attach agreed CRs.
* Thorsten: Ok, it is fine for me to hold the pen.

**Decision:**

* Replied into 806

[**S4-220706**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220706.zip)is **replied** to in [S4-220806](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220806.zip).

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| [S4-220806](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220806.zip) | Reply LS on 5MBS User Services | Ericsson LM | Thorsten Lohmar |

**Online Discussion:**

* None

**Decision:**

* Goes to the plenary**.**

[**S4-220806**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220806.zip)goes to the plenary**.**.

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| [S4-220707](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220707.zip) | Reply LS on Media Production over 5G NPN ([S4-220328](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220328.zip)/ S2-2201961) | SA2 | Jayeeta Saha |

**Online Discussion:**

* Was presented by Frederic.
* Thorsten: What does it mean? I think we are managing PTP aspects. Can we note the LS and take the action elsewhere.
* Frederic: I agree, we don’t need a PTP profile.

**Decision:**

* Noted.

[**S4-220707**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220707.zip)is **noted.**

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| [S4-220708](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220708.zip) | LS reply (S4-211579-19 November 2021) on smart filtering and enhancement of LI | SA3LI | Jayeeta Saha |

**Online Discussion:**

* Frederic: Is it enough to say “Thanks, here is the spec” ?
* Frederic: No views, we note the LS.
* Charles: Thinks that should suffice (Richard apparently is not connected to make comments).
* Gunnar: We don’t really have anything to point to them.

**Decision:**

* Noted.

[**S4-220708**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220708.zip)is **noted.**

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| [S4-220740](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220740.zip) | LIAISON on Content Encoding in MBMS FLUTE | DVB | Jayeeta Saha |

**E-mail Discussion:**

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| [[8.3/8.13 Liaisons from other groups & Others including TEI; 740, 684, 679; Block A; 12May 0600 CEST] Reply LS to DVB and CR 26.346-0659 on Content Encoding Signaling relaxation (Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;15ed8949.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:30:34 +0000 |
| [[8.3/8.13 Liaisons from other groups & Others including TEI; 740, 684, 679; Block A; 12May 0600 CEST] Reply LS to DVB and CR 26.346-0659 on Content Encoding Signaling relaxation (Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;71a5c03e.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 09:50:16 +0100 |
| [[8.3/8.13 Liaisons from other groups & Others including TEI; 740, 684, 679; Block A; 12May 0600 CEST] Reply LS to DVB and CR 26.346-0659 on Content Encoding Signaling relaxation (Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;3f3a1a0d.2205B&S=) | Thomas Stockhammer | Wed, 11 May 2022 10:09:37 +0000 |
| [[8.3/8.13 Liaisons from other groups & Others including TEI; 740, 684, 679; Block A; 12May 0600 CEST] Reply LS to DVB and CR 26.346-0659 on Content Encoding Signaling relaxation (Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;7469d29d.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 14:03:45 +0100 |
| [[8.3/8.13 Liaisons from other groups & Others including TEI; 740, 684, 679; Block A; 12May 0600 CEST] Reply LS to DVB and CR 26.346-0659 on Content Encoding Signaling relaxation (Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;22ac7b74.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 03:39:54 +0000 |

**Online Discussion:**

* None

**Decision:**

* Replied to in 684.

[**S4-220740**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220740.zip)is **replied** to in [S4-220684](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220684.zip)**.**

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| [S4-220728](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220728.zip) | Summary for FS\_5GMS\_Multicast | TELUS | PENG TAN |

**E-mail Discussion:**

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| [[8.13 Others including TEI; 728; Block A; 12May 0600 CEST] Summary for FS\_5GMS\_Multicast “Study on Multicast Architecture Enhancement for 5G Media Streaming” -> for endorsement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;7222329.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:30:38 +0000 |
| [[8.13 Others including TEI; 728; Block A; 12May 0600 CEST] Summary for FS\_5GMS\_Multicast “Study on Multicast Architecture Enhancement for 5G Media Streaming” -> for endorsement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;5aac96c6.2205B&S=) | Thomas Stockhammer | Wed, 11 May 2022 09:53:08 +0000 |
| [[8.13 Others including TEI; 728; Block A; 12May 0600 CEST] Summary for FS\_5GMS\_Multicast “Study on Multicast Architecture Enhancement for 5G Media Streaming” -> for endorsement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;892f236f.2205B&S=) | Thorsten Lohmar | Wed, 11 May 2022 16:46:06 +0000 |
| [[8.13 Others including TEI; 728; Block A; 12May 0600 CEST] Summary for FS\_5GMS\_Multicast “Study on Multicast Architecture Enhancement for 5G Media Streaming” -> for endorsement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;5a84f7bd.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 04:12:32 +0000 |
| [[8.13 Others including TEI; 728; Block A; 12May 0600 CEST] Summary for FS\_5GMS\_Multicast “Study on Multicast Architecture Enhancement for 5G Media Streaming” -> for endorsement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;5593ceeb.2205B&S=) | Peng Tan | Fri, 13 May 2022 08:55:22 -0400 |

**Decision:**

* Endorsed via emails.

[**S4-220728**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220728.zip)is **endorsed.**

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| [S4-220730](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220730.zip) | Summary for FS\_5MBUSA | TELUS | PENG TAN |

**E-mail Discussion:**

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| [[8.13 Others including TEI; 730; Block A; 12May 0600 CEST] Summary for 5MBUSA “5G multicast-broadcast services User Service architecture” -> for endorsement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;72c23bac.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:30:39 +0000 |
| [[8.13 Others including TEI; 730; Block A; 12May 0600 CEST] Summary for 5MBUSA “5G multicast-broadcast services User Service architecture” -> for endorsement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;87eecc74.2205B&S=) | Thomas Stockhammer | Wed, 11 May 2022 09:54:56 +0000 |
| [[8.13 Others including TEI; 730; Block A; 12May 0600 CEST] Summary for 5MBUSA “5G multicast-broadcast services User Service architecture” -> for endorsement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;c70441b0.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 04:16:50 |
| [[8.13 Others including TEI; 730; Block A; 12May 0600 CEST] Summary for 5MBUSA “5G multicast-broadcast services User Service architecture” -> for endorsement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;17cd3366.2205B&S=) | Peng Tan | Fri, 13 May 2022 09:03:48 -0400 |
| [[8.13 Others including TEI; 730; Block A; 12May 0600 CEST] Summary for 5MBUSA “5G multicast-broadcast services User Service architecture” -> for endorsement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;ff9e1d60.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 14:29:26 +0000 |

**Online Discussion:**

* Not reviewed, the rapporteur was not presented.
* Frederic: I will send an email to the rapporteur.

**Decision:**

* Revised to 876. 876 will go to the closing plenary.

[**S4-220730**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220730.zip)is **revised** [S4-220876](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220876.zip)**.**

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| [S4-220656](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220656.zip) | draft Reply LS on Logical relationship between query parameters | Huawei, Hisilicon | Qi Pan |

**Revisions:**

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| [S4-220656](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220656.zip) | 5/12/2022 2:52 |

**Online Discussion:**

* r01 presented by Qi.
* R01 agreeable over email.

**Decision:**

* Revised to 796. 796 agreed without presentation will go to the plenary.

[**S4-220656**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220656.zip)is **revised to** [**S4-220796**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220796.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220656.zip)796 | draft Reply LS on Logical relationship between query parameters | Huawei, Hisilicon | Qi Pan |

**E-mail Discussion:**

See [S4-220656](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220656.zip).

**Decision:**

* Agreed without presentation.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220656.zip)**796** is **agreed.**

## 8.4 Issues for immediate consideration

none

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

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| [S4-220588](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220588.zip) | [5MBUSA] Corrections to 5GMS via eMBMS | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.5 Rel-17/5MBUSA; 588; Block A; 13May 0530 CEST] dCR 26.501 [5MBUSA] Corrections to 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;4e55baad.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 08:33:16 +0000 |
| [[8.5 Rel-17/5MBUSA; 588; Block A; 13May 0530 CEST] dCR 26.501 [5MBUSA] Corrections to 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;dceb0473.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 09:54:43 +0100 |
| [[8.5 Rel-17/5MBUSA; 588; Block A; 13May 0530 CEST] dCR 26.501 [5MBUSA] Corrections to 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;9becbc39.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 16:06:22 +0000 |
| [[8.5 Rel-17/5MBUSA; 588; Block A; 13May 0530 CEST] dCR 26.501 [5MBUSA] Corrections to 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;30f91d33.2205B&S=) | Thomas Stockhammer | Thu, 12 May 2022 21:54:55 +0000 |
| [[8.5 Rel-17/5MBUSA; 588; Block A; 13May 0530 CEST] dCR 26.501 [5MBUSA] Corrections to 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;20cfd017.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 03:40:21 +0000 |

**Online Discussion:**

* r01 was presented by Thomas.
* Frederic: OK. You need to transform it as a CR.

**Decision:**

* Revised to 810. 810 will be agreed without presentation and goes to the plenary.

[**S4-220588**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220588.zip)is **revised** to [S4-220810](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220810.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220588.zip)810 | [5MBUSA] Corrections to 5GMS via eMBMS | Qualcomm Incorporated | Thomas Stockhammer |

**Decision:**

* Agreed without presentation and goes to the plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220588.zip)**810** is **agreed.**

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| [S4-220615](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220615.zip) | Registration of URNs | Qualcomm Incorporated | Thomas Stockhammer |

**Online Discussion:**

* None

**Decision:**

* Goes to the plenary.

[**S4-220615**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220615.zip)goes to the plenary**.**

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| [S4-220616](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220616.zip) | Registration of URNs | Qualcomm Incorporated | Thomas Stockhammer |

**Online Discussion:**

* None

**Decision:**

* Goes to the plenary.

[**S4-220616**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220616.zip)goes to the plenary**.**

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| [S4-220625](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220625.zip) | Fixing api-version in 5GMS RESTful APIs | Qualcomm Technologies Ireland | Imed Bouazizi |

**E-mail Discussion:**

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| [[8.5 Rel-17 and earlier/5GMS3; 625; Block A; 13May 0600 CEST] CR TS 26.512-0021 CR for fixing api-version in Open API (5GMSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;2a91948f.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:28:05 +0000 |
| [[8.5 Rel-17 and earlier/5GMS3; 625; Block A; 13May 0600 CEST] CR TS 26.512-0021 CR for fixing api-version in Open API (5GMSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;5dc18a86.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 11:25:49 +0100 |
| [[8.5 Rel-17 and earlier/5GMS3; 625; Block A; 13May 0600 CEST] CR TS 26.512-0021 CR for fixing api-version in Open API (5GMSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;bb1050e0.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 11:40:00 +0100 |
| [[8.5 Rel-17 and earlier/5GMS3; 625; Block A; 13May 0600 CEST] CR TS 26.512-0021 CR for fixing api-version in Open API (5GMSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;42f92963.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 16:09:28 +0000 |
| [[8.5 Rel-17 and earlier/5GMS3; 625; Block A; 13May 0600 CEST] CR TS 26.512-0021 CR for fixing api-version in Open API (5GMSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f608955f.2205B&S=) | Imed Bouazizi | Thu, 12 May 2022 16:11:20 +0000 |
| [[8.5 Rel-17 and earlier/5GMS3; 625; Block A; 13May 0600 CEST] CR TS 26.512-0021 CR for fixing api-version in Open API (5GMSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;dcff16dd.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 17:11:47 +0100 |
| [[8.5 Rel-17 and earlier/5GMS3; 625; Block A; 13May 0600 CEST] CR TS 26.512-0021 CR for fixing api-version in Open API (5GMSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;3cd0e99e.2205B&S=) | Iraj Sodagar | Thu, 12 May 2022 21:25:17 +0000 |
| [[8.5 Rel-17 and earlier/5GMS3; 625; Block A; 13May 0600 CEST] CR TS 26.512-0021 CR for fixing api-version in Open API (5GMSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;2deb7be3.2205B&S=) | Imed Bouazizi | Fri, 13 May 2022 02:20:54 +0000 |
| [[8.5 Rel-17 and earlier/5GMS3; 625; Block A; 13May 0600 CEST] CR TS 26.512-0021 CR for fixing api-version in Open API (5GMSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;16187b41.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:11:01 +0000 |
| [[8.5 Rel-17 and earlier/5GMS3; 625; Block A; 13May 0600 CEST] CR TS 26.512-0021 CR for fixing api-version in Open API (5GMSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;299824ba.2205B&S=) | Richard Bradbury | Fri, 13 May 2022 11:19:02 +0100 |

**Revisions:**

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| [S4-220625](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220625.zip) | 5/12/2022 10:39 |
| [S4-220625](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220625.zip) | 5/13/2022 2:08 |

**Online Discussion:**

* Thorsten: Is it possible to keep the specific version or just keep the apiVersion?
* r02 was presented by Imed.
* Frederic: “Proposed change affects” to be fulfilled and TSG/WG are to be modified.
* Richard: There are different concepts on backward compatibility. I use the same URL and there is no impact on the client. Or, with a new release you can use a new version.
* Iraj: The problem is that you are not mandating any features, everything is optional.
* Richard: If you want release 17, you just have to use v2. We will not be required to increment the version at each 3GPP release if there is no change.

**Decision:**

* Revised to 843. 843 will be agreed without presentation and goes to the plenary.

[**S4-220625**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220625.zip)is **revised** to [S4-220843](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220843.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220625.zip)843 | Fixing api-version in 5GMS RESTful APIs | Qualcomm Technologies Ireland | Imed Bouazizi |

**E-mail Discussion:**

See [S4-220625](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220625.zip).

**Decision:**

* Agreed without presentation and goes to the plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220625.zip)**843** is **agreed.**

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| [S4-220634](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220634.zip) | [5MBUSA] MBS User Service procedures | BBC | Richard Bradbury |

**E-mail Discussion:**

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| [[8.5 Rel-17/5MBUSA; 634; Block A; 13May 0530 CEST] CR 26.502-0001 [5MBUSA] MBS User Service procedures-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f6bbfbf0.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 08:33:17 +0000 |
| [[8.5 Rel-17/5MBUSA; 634; Block A; 13May 0530 CEST] CR 26.502-0001 [5MBUSA] MBS User Service procedures-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;56ba74f8.2205B&S=) | panqi (E) | Thu, 12 May 2022 09:46:29 +0000 |
| [[8.5 Rel-17/5MBUSA; 634; Block A; 13May 0530 CEST] CR 26.502-0001 [5MBUSA] MBS User Service procedures-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;2a715fd7.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 16:07:30 +0100 |
| [[8.5 Rel-17/5MBUSA; 634; Block A; 13May 0530 CEST] CR 26.502-0001 [5MBUSA] MBS User Service procedures-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;d074d8c7.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 16:46:53 +0000 |
| [[8.5 Rel-17/5MBUSA; 634; Block A; 13May 0530 CEST] CR 26.502-0001 [5MBUSA] MBS User Service procedures-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;542d561c.2205B&S=) | Charles Lo | Thu, 12 May 2022 18:46:28 +0000 |
| [[8.5 Rel-17/5MBUSA; 634; Block A; 13May 0530 CEST] CR 26.502-0001 [5MBUSA] MBS User Service procedures-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;bdbb1661.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 03:48:06 +0000 |
| [[8.5 Rel-17/5MBUSA; 634; Block A; 13May 0530 CEST] CR 26.502-0001 [5MBUSA] MBS User Service procedures-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;ecb85cfd.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 03:49:07 +0000 |
| [[8.5 Rel-17/5MBUSA; 634; Block A; 13May 0530 CEST] CR 26.502-0001 [5MBUSA] MBS User Service procedures-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;fd371b5f.2205B&S=) | Richard Bradbury | Fri, 13 May 2022 10:30:59 +0100 |
| [[8.5 Rel-17/5MBUSA; 634; Block A; 13May 0530 CEST] CR 26.502-0001 [5MBUSA] MBS User Service procedures-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;762cc883.2205B&S=) | Richard Bradbury | Fri, 13 May 2022 10:37:35 +0100 |
| [[8.5 Rel-17/5MBUSA; 634; Block A; 13May 0530 CEST] CR 26.502-0001 [5MBUSA] MBS User Service procedures-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;a35f6206.2205B&S=) | Richard Bradbury | Fri, 13 May 2022 10:38:42 +0100 |

**Revisions:**

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| [S4-220634](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220634.zip) | 5/12/2022 18:45 |
| [S4-220634](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220634.zip) | 5/12/2022 15:06 |

**Online Discussion:**

* r01 was presented by Richard.
* Richard indicates there are additional comments from Charles not yet addressed
* Thorsten: In the domain model, on the right side, for what purpose MBSTF needs it?
* Richard: You are right, I will remove it.
* r03 was presented by Richard.
* Thorsten: I think we need to provide guidelines on how we populate the carousel.

**Decision:**

* Revised to 816. 816 will be a CR, agreed without presentation and goes to the plenary.

[**S4-220634**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220634.zip)is **revised** to [S4-220816](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220816.zip).

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220634.zip)816 | [5MBUSA] MBS User Service procedures | BBC | Richard Bradbury |

**E-mail Discussion:**

See [S4-220634](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220634.zip).

**Decision:**

* Agreed without presentation and goes to the plenary

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220634.zip)**816** is **agreed**.

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| [S4-220635](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220635.zip) | [5MBUSA] Additional stage 2 detail | BBC | Richard Bradbury |

**E-mail Discussion:**

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| [[8.5 Rel-17/5MBUSA; 635; Block A; 13May 0530 CEST] CR 26.502-0002 [5MBUSA] Additional stage 2 detail -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;3f7cfa65.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 08:33:18 +0000 |
| [[8.5 Rel-17/5MBUSA; 635; Block A; 13May 0530 CEST] CR 26.502-0002 [5MBUSA] Additional stage 2 detail -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;37526eb1.2205B&S=) | Thomas Stockhammer | Thu, 12 May 2022 21:46:20 +0000 |
| [[8.5 Rel-17/5MBUSA; 635; Block A; 13May 0530 CEST] CR 26.502-0002 [5MBUSA] Additional stage 2 detail -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;8350fe86.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 03:53:05 +0000 |

**Revisions:**

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| [S4-220635](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220635.zip) | 5/12/2022 21:44 |

**Online Discussion:**

* QCOM version was presented by Thomas
* Thomas’s concern is on Packet Streaming mode of Packet Streaming Method
* Pacing according to RTP timestamp issue - controlled by application e.g. by QoS requirement, network reinstalls in accordance by looking into SDP - if specify how network to deal with packets timing; iIngest session and MBSTF to reinstall
* Richard: Why support transparent mode for Packet Streaming?
* Thorsten: To support mission critical and MTT
* Thomas: We need to be more accurate - the MBSTF acts as RTP Streaming proxy
* Thorsten: Yes, MBSTF has to look deeper into RTP
* Thorsten: What is your concern with “RTP packets”?
* Thomas: Session management needs to be considered - it’s more than just packet handling
* Thorsten: FEC support in 26.346 Clause 8A (for group communications) and 8B (for transparent delivery)
* Thomas: What you are describing is not what group communications intend
* Thorsten: Yes they consider RTP for Forward Only mode and FEC usage only there
* Thomas: We need to better define Packet Streaming Mode.
* r01 was presented by Richard.
* Frederic: what do we mean with “reflected in the carousel”.
* Richard: This is the serialised output.
* Frederic: “Reflected in the distribution” would have been better.
* Richard: OK. And we will have to cross reference the “manifest”.
* Thorsten: In Note 1, it is not RFC 3500.
* Frederic: Yes, it should be RFC 3550. And in this note, “can” would be better than “may”.

**Decision:**

* Revised to 811.

[**S4-220635**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220635.zip)is **revised** to [S4-220811](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220811.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220635.zip)811 | [5MBUSA] Additional stage 2 detail | BBC | Richard Bradbury |

**E-mail Discussion:**

See [S4-220635](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220635.zip).

**Revisions:**

**Online Discussion:**

* Presented by Richard.

**Decision:**

* 811 is agreed and goes to the closing plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220635.zip)**811** is **agreed.**

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| [S4-220639](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220639.zip) | [EVEX] [5GMS\_EDGE] Expanded downlink provisioning procedures and domain model | BBC, Qualcomm Incorporated | Richard Bradbury |

**E-mail Discussion:**

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| [[8.5 Rel-17 and earlier/EVEX, 5GMS\_EDGE; 639; Block A; 13May 0600 CEST] CR TS 26.501-0036 Expanded downlink provisioning procedures and domain model (EVEX, 5GMS\_EDGE, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;7dacdacc.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:28:10 +0000 |
| [[8.5 Rel-17 and earlier/EVEX, 5GMS\_EDGE; 639; Block A; 13May 0600 CEST] CR TS 26.501-0036 Expanded downlink provisioning procedures and domain model (EVEX, 5GMS\_EDGE, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;a7afe1bb.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:12:22 +0000 |

**Decision:**

* Agreed via emails.

[**S4-220639**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220639.zip)is **agreed.**

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| [S4-220655](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220655.zip) | [5GMS3] Correction to QoE metrics reporting client configuration | BBC | Richard Bradbury |

**E-mail Discussion:**

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| [[8.5 Rel-17 and earlier/5GMS3; 655; Block A; 13May 0600 CEST] CR TS 26.512-0022 [5GMS3] Correction to QoE metrics reporting client configuration (5GMS3, Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;164576d.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:28:16 +0000 |
| [[8.5 Rel-17 and earlier/5GMS3; 655; Block A; 13May 0600 CEST] CR TS 26.512-0022 [5GMS3] Correction to QoE metrics reporting client configuration (5GMS3, Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;447e0508.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 11:32:07 +0100 |
| [[8.5 Rel-17 and earlier/5GMS3; 655; Block A; 13May 0600 CEST] CR TS 26.512-0022 [5GMS3] Correction to QoE metrics reporting client configuration (5GMS3, Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;7865fc25.2205B&S=) | Charles Lo | Thu, 12 May 2022 20:12:14 +0000 |
| [[8.5 Rel-17 and earlier/5GMS3; 655; Block A; 13May 0600 CEST] CR TS 26.512-0022 [5GMS3] Correction to QoE metrics reporting client configuration (5GMS3, Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;89d972da.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:14:10 +0000 |

**Decision:**

* Agreed via emails.

[**S4-220655**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220655.zip)is **agreed.**

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| [S4-220657](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220657.zip) | CR Add DNN Slice in the QoE report schema | Huawei, Hisilicon | Qi Pan |

**E-mail Discussion:**

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| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 657; Block A; 13May 0600 CEST] CR TS 26.247-0173 Add DNN/Slice in the QoE report schema (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;6f7eacfd.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:28:22 +0000 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 657; Block A; 13May 0600 CEST] CR TS 26.247-0173 Add DNN/Slice in the QoE report schema (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;2f52c7bc.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 11:35:10 +0100 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 657; Block A; 13May 0600 CEST] CR TS 26.247-0173 Add DNN/Slice in the QoE report schema (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;29316981.2205B&S=) | Gunnar Heikkilä | Thu, 12 May 2022 11:14:06 +0000 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 657; Block A; 13May 0600 CEST] CR TS 26.247-0173 Add DNN/Slice in the QoE report schema (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;a69dcd7b.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:15:36 +0000 |

**Decision:**

* Agreed via emails but Hyung-Nam identified an issue about the prefix of “xs:”.

[**S4-220657**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220657.zip)is **revised** to [S4-220812](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220812.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220657.zip)812 | CR Add DNN Slice in the QoE report schema | Huawei, Hisilicon | Qi Pan |

**E-mail Discussion:**

See [S4-220657](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220657.zip).

**Decision:**

* Agreed without presentation.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220657.zip)**812** is **agreed.**

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| [S4-220660](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220660.zip) | CR support of Group Communication Service | Huawei, Hisilicon | Qi Pan |

**E-mail Discussion:**

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| [[8.5 Rel-17/5MBUSA; 660; Block A; 13May 0530 CEST] CR TS 26.502-0003 support of Group Communication Service (5MBUSA, Rel-17)-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;9780736b.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 08:33:19 +0000 |
| [[8.5 Rel-17/5MBUSA; 660; Block A; 13May 0530 CEST] CR TS 26.502-0003 support of Group Communication Service (5MBUSA, Rel-17)-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;83e555af.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 10:07:55 +0100 |
| [[8.5 Rel-17/5MBUSA; 660; Block A; 13May 0530 CEST] CR TS 26.502-0003 support of Group Communication Service (5MBUSA, Rel-17)-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;2697132a.2205B&S=) | panqi (E) | Thu, 12 May 2022 10:03:26 +0000 |
| [[8.5 Rel-17/5MBUSA; 660; Block A; 13May 0530 CEST] CR TS 26.502-0003 support of Group Communication Service (5MBUSA, Rel-17)-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;303de8a5.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 15:57:41 +0000 |
| [[8.5 Rel-17/5MBUSA; 660; Block A; 13May 0530 CEST] CR TS 26.502-0003 support of Group Communication Service (5MBUSA, Rel-17)-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;2b10cba7.2205B&S=) | panqi (E) | Fri, 13 May 2022 03:53:37 +0000 |
| [[8.5 Rel-17/5MBUSA; 660; Block A; 13May 0530 CEST] CR TS 26.502-0003 support of Group Communication Service (5MBUSA, Rel-17)-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f16d7d78.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 03:58:03 +0000 |
| [[8.5 Rel-17/5MBUSA; 660; Block A; 13May 0530 CEST] CR TS 26.502-0003 support of Group Communication Service (5MBUSA, Rel-17)-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;86b8988f.2205B&S=) | panqi (E) | Fri, 13 May 2022 09:27:25 +0000 |
| [[8.5 Rel-17/5MBUSA; 660; Block A; 13May 0530 CEST] CR TS 26.502-0003 support of Group Communication Service (5MBUSA, Rel-17)-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;aa6148b1.2205B&S=) | Richard Bradbury | Fri, 13 May 2022 17:39:06 +0100 |

**Revisions:**

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| [S4-220660](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220660.zip) | 5/12/2022 15:55 |

**Online Discussion:**

* Ericsson version was presented by Qi.
* Richard: whether renaming of MBSF-like function outside trust domain as MBSF-external should be further discussed
* Qi: need to decide whether rel-17 SA4 spec needs to describe support for Group Communications?? We have defined MBS architecture and allow GC service provider decide how to use it - how to make use of MB2
* Thorsten: MBSF to only make use of Forward Only Mode to allow MBSTF to receive via MB2 according to SA2 architecture
* Frederic: it seems we should not pursue this
* Richard: maybe provide a sketch on usage of MB2-C and MB2-U (Group Communication (GC) Service, which is only applicable to LTE/EPC as specified in TS 23.468 [X], can utilise the MBS System for GC data delivery via MB2-C and MB2-U in TS 23.247 Annex C)
* Thorsten: My proposal is to keep the contribution but remove what is not needed.
* Related discussion on how to respond to SA2 LS in -706
* r05 was presented by Qi.
* Frederic: I am note sure to be happy with the NOTE which is more an Editor’s Note. I would write “is for ffs”.
* Richard: ffs would be sufficient.
* Qi: OK, I can do that.

**Decision:**

* Revised to 848. 848 is agreed without presentation and goes to the plenary.

[**S4-220660**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220660.zip)is **revised** to [S4-220848](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220848.zip)**.**

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| [S4-220663](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220663.zip) | TS 26.247 support of NR QoE feature | Huawei, Hisilicon | Qi Pan |

**E-mail Discussion:**

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| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 663; Block A; 13May 0600 CEST] CR TS 26.247-0174 Support of NR QoE features (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f4d13e2e.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:28:31 +0000 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 663; Block A; 13May 0600 CEST] CR TS 26.247-0174 Support of NR QoE features (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;d5ba870a.2205B&S=) | Hyung-Nam Choi5 | Thu, 12 May 2022 11:08:32 +0000 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 663; Block A; 13May 0600 CEST] CR TS 26.247-0174 Support of NR QoE features (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;1a879547.2205B&S=) | Loic Fontaine | Thu, 12 May 2022 12:16:08 +0000 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 663; Block A; 13May 0600 CEST] CR TS 26.247-0174 Support of NR QoE features (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;2ccea680.2205B&S=) | Gunnar Heikkilä | Thu, 12 May 2022 13:07:54 +0000 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 663; Block A; 13May 0600 CEST] CR TS 26.247-0174 Support of NR QoE features (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;ace71210.2205B&S=) | panqi (E) | Thu, 12 May 2022 13:21:48 +0000 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 663; Block A; 13May 0600 CEST] CR TS 26.247-0174 Support of NR QoE features (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;7350727.2205B&S=) | panqi (E) | Thu, 12 May 2022 13:25:14 +0000 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 663; Block A; 13May 0600 CEST] CR TS 26.247-0174 Support of NR QoE features (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;b6e5528f.2205B&S=) | Loic Fontaine | Thu, 12 May 2022 15:05:47 +0000 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 663; Block A; 13May 0600 CEST] CR TS 26.247-0174 Support of NR QoE features (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;45edf370.2205B&S=) | panqi (E) | Fri, 13 May 2022 02:10:09 +0000 |
| [[8.5 Rel-17 and earlier/NR\_QoE-Core; 663; Block A; 13May 0600 CEST] CR TS 26.247-0174 Support of NR QoE features (NR\_QoE-Core, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;de8eee92.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:18:18 +0000 |

**Revisions:**

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| [S4-220663](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220663.zip) | 5/13/2022 2:09 |

**Online Discussion:**

* None.

**Decision:**

* Revised to 868. 868 will go to the plenary.

[**S4-220663**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220663.zip)is **revised** to [S4-220868](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220868.zip).

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| [S4-220665](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220665.zip) | Security mechanisms for MBS traffic | Huawei, Hisilicon | Qi Pan |

**E-mail Discussion:**

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| [[8.5 Rel-17/5MBUSA; 665; Block A; 13May 0530 CEST] dCR TS 26.502 Security mechanisms for MBS traffic (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;50a93de3.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 08:33:20 +0000 |
| [[8.5 Rel-17/5MBUSA; 665; Block A; 13May 0530 CEST] dCR TS 26.502 Security mechanisms for MBS traffic (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;de1065e2.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 11:22:44 +0100 |
| [[8.5 Rel-17/5MBUSA; 665; Block A; 13May 0530 CEST] dCR TS 26.502 Security mechanisms for MBS traffic (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f60da151.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 15:58:43 +0000 |
| [[8.5 Rel-17/5MBUSA; 665; Block A; 13May 0530 CEST] dCR TS 26.502 Security mechanisms for MBS traffic (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;7f200575.2205B&S=) | panqi (E) | Fri, 13 May 2022 02:22:37 +0000 |
| [[8.5 Rel-17/5MBUSA; 665; Block A; 13May 0530 CEST] dCR TS 26.502 Security mechanisms for MBS traffic (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;c7fad3ca.2205B&S=) | panqi (E) | Fri, 13 May 2022 03:20:38 +0000 |
| [[8.5 Rel-17/5MBUSA; 665; Block A; 13May 0530 CEST] dCR TS 26.502 Security mechanisms for MBS traffic (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;ee8e344c.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:00:35 +0000 |
| [[8.5 Rel-17/5MBUSA; 665; Block A; 13May 0530 CEST] dCR TS 26.502 Security mechanisms for MBS traffic (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;87f52cb4.2205B&S=) | Richard Bradbury | Fri, 13 May 2022 16:56:31 +0100 |

**Revisions:**

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| [S4-220665](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220665.zip) | 5/12/2022 15:58 |
| [S4-220665](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220665.zip) | 5/13/2022 3:20 |

**Online Discussion:**

* r1 was presented by Qi.
* Frederic: According to emails, we need answers from SA3. But they are not confident to answer this week.
* Charles: A call would have been good.
* Frederic: If they don’t respond during the meeting I will raise the issue at SA Level. But I will send an email to the SA3 chair to ask for an answer next week..
* Frederic: Now news from SA3, so let’s postpone.

**Decision:**

* Revised to 849. 849 is postponed but will have to be resubmitted.

[**S4-220665**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220665.zip)is **postponed.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220665.zip)849 | Security mechanisms for MBS traffic | Huawei, Hisilicon | Qi Pan |

**Decision:**

* Postponed but will have to be resubmitted.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220665.zip)**849** is **postponed.**

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| [S4-220690](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220690.zip) | [5MBUSA]: Various corrections around File Repair, Consumption Reporting and Reception Reporting | Ericsson LM | Thorsten Lohmar |

**E-mail Discussion:**

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| [[8.5 Rel-17/5MBUSA; 690; Block A; 13May 0530 CEST] dCR TS 26.502 Various corrections around File Repair, Consumption Reporting and Reception Reporting (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;d5b4468e.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 08:33:21 +0000 |
| [[8.5 Rel-17/5MBUSA; 690; Block A; 13May 0530 CEST] dCR TS 26.502 Various corrections around File Repair, Consumption Reporting and Reception Reporting (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;816b9158.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 10:01:02 +0100 |
| [[8.5 Rel-17/5MBUSA; 690; Block A; 13May 0530 CEST] dCR TS 26.502 Various corrections around File Repair, Consumption Reporting and Reception Reporting (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;1cf118ef.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 16:02:01 +0000 |
| [[8.5 Rel-17/5MBUSA; 690; Block A; 13May 0530 CEST] dCR TS 26.502 Various corrections around File Repair, Consumption Reporting and Reception Reporting (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;295e660b.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 20:00:32 +0100 |
| [[8.5 Rel-17/5MBUSA; 690; Block A; 13May 0530 CEST] dCR TS 26.502 Various corrections around File Repair, Consumption Reporting and Reception Reporting (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f974fc03.2205B&S=) | Thomas Stockhammer | Fri, 13 May 2022 03:34:35 +0000 |
| [[8.5 Rel-17/5MBUSA; 690; Block A; 13May 0530 CEST] dCR TS 26.502 Various corrections around File Repair, Consumption Reporting and Reception Reporting (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;cb056afb.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:06:43 +0000 |
| [[8.5 Rel-17/5MBUSA; 690; Block A; 13May 0530 CEST] dCR TS 26.502 Various corrections around File Repair, Consumption Reporting and Reception Reporting (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;349f4340.2205B&S=) | Thorsten Lohmar | Fri, 13 May 2022 04:25:29 +0000 |
| [[8.5 Rel-17/5MBUSA; 690; Block A; 13May 0530 CEST] dCR TS 26.502 Various corrections around File Repair, Consumption Reporting and Reception Reporting (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;56c680e8.2205B&S=) | Richard Bradbury | Fri, 13 May 2022 11:53:34 +0100 |

**Revisions:**

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| [S4-220690](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220690.zip) | 5/12/2022 8:58 |
| [S4-220690](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220690.zip) | 5/12/2022 16:01 |
| [S4-220690](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220690.zip) | 5/13/2022 3:33 |
| [S4-220690](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220690.zip) | 5/13/2022 4:24 |

**Online Discussion:**

* r02 was presented by Thorsten.
* Thorsten: In the diagram we now have dash lines for the MBS AS between MBSF and MBSTF (without indicating associated reference point) and File repair has been replaced by object repair.
* Frederic: What is the specific SA2 complaint about MBS AF?
* Thorsten: I think the above should suffice
* There is also clarification fromThomas on use of object repair after and during the distribution session
* Thomas: Timing related needs to be considered.Check RAN is unicast and multicast are both available at the same time.
* Thorsten: in UTRA there was limitation on concurrent unicast and broadcast operation by UE, but no longer in 5G
* Frederic: Cannot request all clients support such functionalities.
* Frederic: there will be further discussion of this document during the planned offline call
* Frederic: there will also be LS response to SA2
* Frederic: “Draft” to be removed on the cover page.

**Decision:**

* Revised to 860. 860 agreed without presentation and goes to the plenary.

[**S4-220690**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220690.zip)is **revised** to [S4-220860](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220860.zip).

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220690.zip)860 | [5MBUSA]: Various corrections around File Repair, Consumption Reporting and Reception Reporting | Ericsson LM | Thorsten Lohmar |

**Decision:**

* Agreed without presentation and goes to the plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220690.zip)**860** is **agreed**.

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| [S4-220691](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip) | [5MBUSA]: Clarification of Nmb8 Protocol stacks wrt Unicast or Multicast usage. | Ericsson LM, BBC | Thorsten Lohmar |

**E-mail Discussion:**

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| [[8.5 Rel-17/5MBUSA; 691; Block A; 13May 0530 CEST] dCR TS 26.502 Clarification of Nmb8 Protocol stacks wrt Unicast or Multicast usage (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;c75c1ffe.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 08:33:22 +0000 |
| [[8.5 Rel-17/5MBUSA; 691; Block A; 13May 0530 CEST] dCR TS 26.502 Clarification of Nmb8 Protocol stacks wrt Unicast or Multicast usage (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;99ba3e8f.2205B&S=) | Thomas Stockhammer | Thu, 12 May 2022 17:23:18 +0000 |
| [[8.5 Rel-17/5MBUSA; 691; Block A; 13May 0530 CEST] dCR TS 26.502 Clarification of Nmb8 Protocol stacks wrt Unicast or Multicast usage (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;cfa293aa.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:07:52 +0000 |
| [[8.5 Rel-17/5MBUSA; 691; Block A; 13May 0530 CEST] dCR TS 26.502 Clarification of Nmb8 Protocol stacks wrt Unicast or Multicast usage (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;68ba26f8.2205B&S=) | Thorsten Lohmar | Fri, 13 May 2022 04:21:59 +0000 |
| [[8.5 Rel-17/5MBUSA; 691; Block A; 13May 0530 CEST] dCR TS 26.502 Clarification of Nmb8 Protocol stacks wrt Unicast or Multicast usage (5MBUSA, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;9c51fb80.2205B&S=) | Richard Bradbury | Fri, 13 May 2022 12:39:33 +0100 |

**Revisions:**

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| [S4-220691](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip) | 5/13/2022 4:21 |
| [S4-220691](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip) | 5/12/2022 17:19 |

**Online Discussion:**

* r01 was presented by Thorsten.
* Thomas: There are many options. I fear that in stage 3 there will bring a lot of complexity.
* Thorsten: in Proxy Mode the multicast ingest is terminated at MBSTF; this is not supported in MBMS
* Thomas: maybe we shouldn’t support multicast ingest mode; doing so might also invite multicast ingest for uncast distribution
* Richard: OK either way (to support multicast ingest or not); could argue that Forward Only mode should be adequate
* Thomas: we should abide by what previous stage 2 intends to support; let’s further discuss during offline.
* r04\_BBC was presented by Thorsten.
* Frederic: We need a formal CR.

**Decision:**

* Revised to 861. 861 is agreed without presentation and goes to the plenary.

[**S4-220691**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip)is **revised to** [S4-222086](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-222086.zip)1**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip)861 | [5MBUSA]: Clarification of Nmb8 Protocol stacks wrt Unicast or Multicast usage. | Ericsson LM, BBC | Thorsten Lohmar |

**Decision:**

* Agreed without presentation and goes to the plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip)**861** is **agreed.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip)817 | dCR to TS 26.502 on SBi operations | BBC | Richard Bradbury |

**Online Discussion:**

* Frederic: Date to be fixed.

**Decision:**

* Revised to 862. 862 is agreed and goes to the closing plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip)**817 revised** to [S4-220862](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220862.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip)862 | dCR to TS 26.502 on SBi operations | BBC | Richard Bradbury |

**Online Discussion:**

* Frederic: Date to be fixed.

**Decision:**

* Agreed and goes to the closing plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220691.zip)**862** is **agreed.**

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| [S4-220715](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220715.zip) | Requirement on UE Behavior regarding QoE Measurement and Reporting | Qualcomm Incorporated | Charles Lo |

**E-mail Discussion:**

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| [[8.5 Rel-17 and earlier/TEI17; 715; Block A; 13May 0600 CEST] CR TS 26.247-0175 Requirement on UE Behavior regarding QoE Measurement and Reporting (TEI17, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;559da0bb.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:28:38 +0000 |
| [[8.5 Rel-17 and earlier/TEI17; 715; Block A; 13May 0600 CEST] CR TS 26.247-0175 Requirement on UE Behavior regarding QoE Measurement and Reporting (TEI17, Rel-17) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;208c5055.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:18:59 +0000 |

**Decision:**

* Agreed via emails.

[**S4-220715**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220715.zip)is **agreed.**

## 8.6 EVEX (5GMS AF Event Exposure)

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| [S4-220636](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220636.zip) | [EVEX] Data collection and reporting for 5G Media Streaming | BBC, Qualcomm Incorporated | Richard Bradbury |

**E-mail Discussion:**

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| [[8.6 EVEX; 636; Block A; 12May 0600 CEST] CR TS 26.501-0035 Data collection and reporting for 5G Media Streaming -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;834fef9c.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:13:17 +0000 |
| [[8.6 EVEX; 636; Block A; 12May 0600 CEST] CR TS 26.501-0035 Data collection and reporting for 5G Media Streaming -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;c39a26ab.2205B&S=) | Charles Lo | Wed, 11 May 2022 11:15:18 +0000 |
| [[8.6 EVEX; 636; Block A; 12May 0600 CEST] CR TS 26.501-0035 Data collection and reporting for 5G Media Streaming -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;4ecc6c7e.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 14:05:43 +0100 |
| [[8.6 EVEX; 636; Block A; 12May 0600 CEST] CR TS 26.501-0035 Data collection and reporting for 5G Media Streaming -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;bcdf7774.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 03:44:48 +0000 |

**Decision:**

* Agreed via emails.

[**S4-220636**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220636.zip)is **agreed.**

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| [S4-220637](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220637.zip) | [EVEX] Presentation of TS 26.531 V2.0.0 | BBC (editor) | Richard Bradbury |

**E-mail Discussion:**

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| [[8.6 EVEX; 637; Block A; 12May 0600 CEST] Draft TS 26.531 v2.0.0 Data Collection and Reporting; General Description and Architecture-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;a1044db.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:13:31 +0000 |
| [[8.6 EVEX; 637; Block A; 12May 0600 CEST] Draft TS 26.531 v2.0.0 Data Collection and Reporting; General Description and Architecture-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;84375eaf.2205B&S=) | Charles Lo | Wed, 11 May 2022 18:09:35 +0000 |
| [[8.6 EVEX; 637; Block A; 12May 0600 CEST] Draft TS 26.531 v2.0.0 Data Collection and Reporting; General Description and Architecture-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;75fec306.2205B&S=) | panqi (E) | Thu, 12 May 2022 02:46:15 +0000 |
| [[8.6 EVEX; 637; Block A; 12May 0600 CEST] Draft TS 26.531 v2.0.0 Data Collection and Reporting; General Description and Architecture-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;fa07ee27.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 04:00:11 +0000 |
| [[8.6 EVEX; 637; Block A; 12May 0600 CEST] Draft TS 26.531 v2.0.0 Data Collection and Reporting; General Description and Architecture-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;1c616770.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 08:37:52 +0100 |
| [[8.6 EVEX; 637; Block A; 12May 0600 CEST] Draft TS 26.531 v2.0.0 Data Collection and Reporting; General Description and Architecture-> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;5555add9.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 14:50:49 +0100 |

**Online Discussion:**

* Richard: prefers to fix 637 at this meeting
* Draft 26531-210r02 was presented by Richard.
* Frederic: Last version of 26.531 was 1.3.0. We might agree to produce v2.0.0 and not v2.1.0 like indicated in 26531-210r02.
* Richard: Yes, but v2.0.0 is already in 3GU.
* Frederic: OK, we keep v2.1.0.

**Decision:**

* Revised according to Draft 26531-210r02. 807 will be agreed without presentation and goes to the plenary.

[**S4-220637**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220637.zip)is **revised** to [S4-220807](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220807.zip)**.**

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| [S4-220807](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220807.zip) | [EVEX] Presentation of TS 26.531 V2.0.0 | BBC (editor) | Richard Bradbury |

**E-mail Discussion:**

See [S4-220637](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220637.zip).

**Decision:**

* Agreed without presentation and goes to the plenary.

**[S4-220807](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220807.zip)** is **agreed.**

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| [S4-220638](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220638.zip) | [EVEX] Explanation of API data model notation | BBC | Richard Bradbury |

**E-mail Discussion:**

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| [[8.6 EVEX; 638; Block A; 12May 0600 CEST] pCR to TS 26.532 [EVEX] Explanation of API data model notation -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;29169cfc.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:13:50 +0000 |
| [[8.6 EVEX; 638; Block A; 12May 0600 CEST] pCR to TS 26.532 [EVEX] Explanation of API data model notation -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;3456d3ea.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 03:54:13 +0000 |

**Decision:**

* Agreed via emails.

[**S4-220638**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220638.zip)is **agreed.**

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| [S4-220658](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220658.zip) | CR on use cases for newly defined 5GMS event | Huawei, Hisilicon | Qi Pan |

**E-mail Discussion:**

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| [[8.6 EVEX; 658; Block A; 12May 0600 CEST] CR TS 26.501-0037 CR on use cases for newly defined 5GMS event -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;47468977.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:13:25 +0000 |
| [[8.6 EVEX; 658; Block A; 12May 0600 CEST] CR TS 26.501-0037 CR on use cases for newly defined 5GMS event -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;6845cfad.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 09:27:22 +0100 |
| [[8.6 EVEX; 658; Block A; 12May 0600 CEST] CR TS 26.501-0037 CR on use cases for newly defined 5GMS event -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;ec8482b4.2205B&S=) | Charles Lo | Wed, 11 May 2022 18:11:03 +0000 |
| [[8.6 EVEX; 658; Block A; 12May 0600 CEST] CR TS 26.501-0037 CR on use cases for newly defined 5GMS event -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;81daad08.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 03:49:44 +0000 |

**Decision:**

* Agreed via emails.

[**S4-220658**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220658.zip)is **agreed.**

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| [S4-220686](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220686.zip) | Discussion on Server to UE information exchange | Ericsson LM | Gunnar Heikkilä |

**E-mail Discussion:**

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| [[8.6 EVEX; 686; Block A; 12May 0600 CEST] Discussion on Server to UE information exchange (for Rel-18) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;345c954f.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:14:02 +0000 |
| [[8.6 EVEX; 686; Block A; 12May 0600 CEST] Discussion on Server to UE information exchange (for Rel-18) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;c81e53d6.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 09:41:04 +0100 |
| [[8.6 EVEX; 686; Block A; 12May 0600 CEST] Discussion on Server to UE information exchange (for Rel-18) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;6f8f31c0.2205B&S=) | Gunnar Heikkilä | Wed, 11 May 2022 11:11:59 +0000 |
| [[8.6 EVEX; 686; Block A; 12May 0600 CEST] Discussion on Server to UE information exchange (for Rel-18) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;279b0671.2205B&S=) | panqi (E) | Wed, 11 May 2022 11:45:38 +0000 |
| [[8.6 EVEX; 686; Block A; 12May 0600 CEST] Discussion on Server to UE information exchange (for Rel-18) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;14918613.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 04:05:10 +0000 |

**Online Discussion:**

* Frederic: Do we need an LS to SA2?
* Gunnar: Yes, we need comments. We can say we noted their assumption but we are not sure the extension has to be done in the DCAF. Might not make sense to extend DCAF functionality as they seem to indicate in their TR.

**Decision:**

* Agreed. An LS to SA2 will be sent in 800.

[**S4-220686**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220686.zip)is **agreed.**

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| [S4-220800](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220800.zip) | Draft LS to SA2 on EVEX | Ericsson LM | Gunnar Heikkilä |

**Online Discussion:**

* Presented by Gunnar.
* Frederic: This is not SA5 at the end.

**Decision:**

* 800 is revised to 846. 846 is agreed without presentation and goes to plenary.

**[S4-220800](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220800.zip)** is **revised** to S4-220846.

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| S4-220846 | Draft LS to SA2 on EVEX | Ericsson LM | Gunnar Heikkilä |

**Decision:**

* Agreed without presentation and goes to plenary.

**S4-220846** is **agreed**.

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| [S4-220716](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220716.zip) | [EVEX] Editor's Draft of TS 26.532 V1.1.1 | Qualcomm Incorporated, BBC, Ericsson LM | Charles Lo |

**E-mail Discussion:**

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| [[8.6 EVEX; 716; Block A; 12May 0600 CEST] [EVEX] Editor's Draft of TS 26.532 V1.1.1 Data Collection and Reporting; Protocols and formats -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;de6a6b86.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:13:41 +0000 |
| [[8.6 EVEX; 716; Block A; 12May 0600 CEST] [EVEX] Editor's Draft of TS 26.532 V1.1.1 Data Collection and Reporting; Protocols and formats -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;508bab81.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 09:30:27 +0100 |
| [[8.6 EVEX; 716; Block A; 12May 0600 CEST] [EVEX] Editor's Draft of TS 26.532 V1.1.1 Data Collection and Reporting; Protocols and formats -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;109651d3.2205B&S=) | Gunnar Heikkilä | Wed, 11 May 2022 14:16:37 +0000 |
| [[8.6 EVEX; 716; Block A; 12May 0600 CEST] [EVEX] Editor's Draft of TS 26.532 V1.1.1 Data Collection and Reporting; Protocols and formats -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;7f58ea72.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 17:21:46 +0100 |
| [[8.6 EVEX; 716; Block A; 12May 0600 CEST] [EVEX] Editor's Draft of TS 26.532 V1.1.1 Data Collection and Reporting; Protocols and formats -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;afce08ca.2205B&S=) | Charles Lo | Wed, 11 May 2022 22:01:35 +0000 |
| [[8.6 EVEX; 716; Block A; 12May 0600 CEST] [EVEX] Editor's Draft of TS 26.532 V1.1.1 Data Collection and Reporting; Protocols and formats -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;29165c39.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 03:53:27 +0000 |

**Revisions:**

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| [S4-220716](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220716.zip) | 5/11/2022 14:14 |
| [S4-220716](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220716.zip) | 5/11/2022 21:58 |

**Online Discussion:**

* r01 was presented by Charles.
* Frederic: Do we plan to send that draft to CT3?
* Charles: That would be a good idea.
* Richard: Do you think the specification is completed with these CRs?
* Charles: It would be completed at more than 80%.
* Frederic: Do we want to send it to SA and CT3? If yes, we need to allocate an LS.
* Charles : Yes.

**Decision:**

* Revised in v1.2.0 in 798. It will be used for the CR. 638 and 721 will also have to be added to 798.
* Will be sent along with the latest version of TS 26.531 to CT3. The LS will be in 799.

[**S4-220716**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220716.zip)is **revised to** [**S4-220798**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220798.zip)**.**

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| [S4-220798](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220798.zip) | [EVEX] Editor's Draft of TS 26.532 V1.1.1 | Qualcomm Incorporated, BBC, Ericsson LM | Charles Lo |

**E-mail Discussion:**

See [S4-220716](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220716.zip).

**Revisions:**

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| [S4-220798](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220798.zip) | 5/12/2022 18:48 |
| [S4-220798](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220798.zip) | 5/12/2022 20:31 |

**Online Discussion:**

* r01 was presented by Charles
* Frederic: v2.0.0 clean has to be produced, plus a presentation sheet. We need that for block A plenary in order to be able to send the LS to CT.
* Charles: It will be difficult to do this in one hour.
* Frederic: OK, let’s produce v1.3.0

**Decision:**

* r01 is agreed. No revision needed as 798 was not submitted.

**[S4-220798](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220798.zip)** is **agreed.**

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| [S4-220717](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220717.zip) | [EVEX] Proposed Text for Clauses 4.4, 8 and 9 | Qualcomm Incorporated, BBC and Ericsson LM | Charles Lo |

**E-mail Discussion:**

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| [[8.6 EVEX; 717->721; Block A; 12May 0600 CEST] pCR to TS 26.532 [EVEX] Proposed Text for Clauses 4.4, 8 and 9 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;4b19ac6b.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:13:55 +0000 |
| [[8.6 EVEX; 717->721; Block A; 12May 0600 CEST] pCR to TS 26.532 [EVEX] Proposed Text for Clauses 4.4, 8 and 9 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;905bdfc1.2205B&S=) | panqi (E) | Wed, 11 May 2022 11:18:15 +0000 |
| [[8.6 EVEX; 717->721; Block A; 12May 0600 CEST] pCR to TS 26.532 [EVEX] Proposed Text for Clauses 4.4, 8 and 9 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;4ba7d584.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 14:35:07 +0100 |
| [[8.6 EVEX; 717->721; Block A; 12May 0600 CEST] pCR to TS 26.532 [EVEX] Proposed Text for Clauses 4.4, 8 and 9 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;d911ca3b.2205B&S=) | Charles Lo | Wed, 11 May 2022 15:57:40 +0000 |
| [[8.6 EVEX; 717->721; Block A; 12May 0600 CEST] pCR to TS 26.532 [EVEX] Proposed Text for Clauses 4.4, 8 and 9 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;e80175ed.2205B&S=) | panqi (E) | Thu, 12 May 2022 01:26:51 +0000 |
| [[8.6 EVEX; 717->721; Block A; 12May 0600 CEST] pCR to TS 26.532 [EVEX] Proposed Text for Clauses 4.4, 8 and 9 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;b4133e27.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 03:56:45 +0000 |

**Decision:**



[**S4-220717**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220717.zip)is **revised to [S4-210721](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220721.zip).**

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| [S4-220721](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220721.zip) | [EVEX] Proposed Text for Clauses 4.4, 8 and 9 | Qualcomm Incorporated, BBC and Ericsson LM | Charles Lo |

**E-mail Discussion:**

See S4-210717.

**Decision:**

* Agreed via emails.

[**S4-220721**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220721.zip)is **agreed.**

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| [S4-220719](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220719.zip) | [EVEX] Proposed Work Plan for EVEX v0.5 | Qualcomm Incorporated (Rapporteur) | Charles Lo |

**Online Discussion:**

* Presented by Charles.

**Decision:**

* 719 is agreed.

[**S4-220719**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220719.zip)is **agreed.**

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| [S4-220799](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220799.zip) | Draft LS to CT3 on EVEX | Qualcomm Incorporated | Charles Lo |

**Online Discussion:**

* r01 was presented by Charles.
* Richard: EVEX related-CRs are in 26.512 and not 26.532.
* Fredric: CR will be in 808. It will be required before agreement.

**Decision:**

* Sent to plenary for agreement.

**[S4-220799](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220799.zip)** is **sent to plenary.**

**NOTE:** Subsequently, at Block A Plenary, the document was renamed “Reply LS to CT3 on Data Reporting API” for proper association with the incoming LS from CT3 in [S4-220701](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220701.zip), and will include attachments of latest versions of TS’s 26.531 and TS 26.532, and agreed to be sent to CT3 right after close of Block A Plenary. Further offline discussion with MBS Chair led to revision of S4-220799 to [S4-220839](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220839.zip) as actual version sent to CT3.

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| [S4-220803](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220803.zip) | EVEX Work Item Summary | Qualcomm Incorporated | Charles Lo |

**Online Discussion:**

* r02 presented by Charles.
* Frederic: why is there r01?
* Charles: that was a prior version placed in Drafts folder.
* Frederic advised that procedurally, when it comes up for agreement, that document version should already be placed in Inbox.

**Decision:**

* 803 is endorsed.

**[S4-220803](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220803.zip)** is **endorsed.**

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| [S4-220808](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220808.zip) | EVEX 26.512 CR | Qualcomm Incorporated | Charles Lo |

**Online Discussion:**

* 808r02 presented by Richard
* Frederic : “Draft” to be removed.

**Decision:**

* Revised to 845 (needs a revision number). 845 is agreed without presentation and goes to the closing plenary.

**[S4-220808](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220808.zip)** is **revised** to [S4-220845](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220845.zip)**.**

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| [S4-220845](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220845.zip) | EVEX 26.512 CR | Qualcomm Incorporated | Charles Lo |

**Decision:**

* Agreed without presentation and goes to the closing plenary.

**[S4-220845](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220845.zip)** is **agreed.**

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| [S4-220819](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220819.zip) | Presentation of Specification to TSG: TS 26.532 Version 2.0.0 | Qualcomm Incorporated | Charles Lo |

**Online Discussion:**

* Was presented by Charles
* Richard: There is a reference to V0.3.0 and two bullets 6.

**Decision:**

* Revised to 847. 847 is agreed and goes to closing plenary.

**[S4-220819](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220819.zip)** is **revised to** [S4-220847](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220847.zip).

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| [S4-220847](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220847.zip) | Presentation of Specification to TSG: TS 26.532 Version 2.0.0 | Qualcomm Incorporated | Charles Lo |

**Decision:**

* Agreed and goes to the closing plenary.

**[S4-220847](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Inbox/S4-220847.zip)** is **agreed**.

## 8.7 5MBP3 (5G Multicast-Broadcast Protocols)

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| [S4-220589](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220589.zip) | [5MBP3] xMB Extensions for 5GMS via eMBMS | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.7 5MBP3; 589; Block A; 13May 0600 CEST] dCR TS 26.348 xMB Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;c352747c.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:53:54 +0000 |
| [[8.7 5MBP3; 589; Block A; 13May 0600 CEST] dCR TS 26.348 xMB Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;a4adaa66.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 11:43:10 +0100 |
| [[8.7 5MBP3; 589; Block A; 13May 0600 CEST] dCR TS 26.348 xMB Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f22d785f.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 16:15:28 +0000 |
| [[8.7 5MBP3; 589; Block A; 13May 0600 CEST] dCR TS 26.348 xMB Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f81ccff0.2205B&S=) | Thomas Stockhammer | Thu, 12 May 2022 21:59:35 +0000 |
| [[8.7 5MBP3; 589; Block A; 13May 0600 CEST] dCR TS 26.348 xMB Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;58a2cd35.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:21:18 +0000 |

**Online Discussion:**

* None

**Decision:**

* Revised to 869. 869 will go to the closing plenary.

[**S4-220589**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220589.zip)is **revised** to [S4-220869](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220869.zip)**.**

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| [S4-220590](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220590.zip) | [5MBP3] User Service Extensions for 5GMS via eMBMS | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.7 5MBP3; 590; Block A; 13May 0600 CEST] dCR TS 26.346 User Service Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;82e5e1ea.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:54:13 +0000 |
| [[8.7 5MBP3; 590; Block A; 13May 0600 CEST] dCR TS 26.346 User Service Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;e7bab39c.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 11:46:16 +0100 |
| [[8.7 5MBP3; 590; Block A; 13May 0600 CEST] dCR TS 26.346 User Service Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;940ead22.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 16:22:50 +0000 |
| [[8.7 5MBP3; 590; Block A; 13May 0600 CEST] dCR TS 26.346 User Service Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;159d1315.2205B&S=) | Thomas Stockhammer | Thu, 12 May 2022 22:00:07 +0000 |
| [[8.7 5MBP3; 590; Block A; 13May 0600 CEST] dCR TS 26.346 User Service Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;993413dc.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:23:31 +0000 |

**Decision:**

* 590 is agreed via emails and revised into a formal CR in Tdoc 805

[**S4-220590**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220590.zip)is **revised** to [S4-220805](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220805.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220589.zip)805 | [5MBP3] User Service Extensions for 5GMS via eMBMS | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See [S4-220590](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220590.zip).

**Online Discussion:**

* Was presented by Thomas.
* Frederic: To be revised to correct clauses affected.

**Decision:**

* Revised to 809. 809 will be agreed without presentation and goes to the plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220589.zip)**805** is **revised** to [S4-220809](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220809.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220589.zip)809 | [5MBP3] User Service Extensions for 5GMS via eMBMS | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See [S4-220590](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220590.zip).

**Decision:**

* Agreed without presentation and goes to the plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220589.zip)**809** is **agreed.**

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| [S4-220591](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220591.zip) | [5MBP3] API Extensions for 5GMS via eMBMS | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.7 5MBP3; 591; Block A; 13May 0600 CEST] dCR TS 26.347 API Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;830eee5b.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:54:21 +0000 |
| [[8.7 5MBP3; 591; Block A; 13May 0600 CEST] dCR TS 26.347 API Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f4679cb9.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 11:50:00 +0100 |
| [[8.7 5MBP3; 591; Block A; 13May 0600 CEST] dCR TS 26.347 API Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;8ccf633.2205B&S=) | Thomas Stockhammer | Thu, 12 May 2022 21:49:53 +0000 |
| [[8.7 5MBP3; 591; Block A; 13May 0600 CEST] dCR TS 26.347 API Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;b503fdc8.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:24:59 +0000 |

**Revisions:**

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| [S4-220591](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220591.zip) | 5/12/2022 10:49 |

**Online Discussion:**

* None

**Decision:**

* Revised to 871. 871 will go to the plenary.

[**S4-220591**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220591.zip)is **revised** to [S4-220871](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220871.zip)**.**

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| [S4-220592](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220592.zip) | [5MBP3] 5GMS Protocol Extensions for 5GMS via eMBMS | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.7 5MBP3; 592; Block A; 13May 0600 CEST] dCR TS 26.348 5GMS Protocol Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;136da77e.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:54:07 +0000 |
| [[8.7 5MBP3; 592; Block A; 13May 0600 CEST] dCR TS 26.348 5GMS Protocol Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f353c380.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 11:57:58 +0100 |
| [[8.7 5MBP3; 592; Block A; 13May 0600 CEST] dCR TS 26.348 5GMS Protocol Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;7896b23.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 16:21:58 +0000 |
| [[8.7 5MBP3; 592; Block A; 13May 0600 CEST] dCR TS 26.348 5GMS Protocol Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;576bb76c.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:22:07 +0000 |
| [[8.7 5MBP3; 592; Block A; 13May 0600 CEST] dCR TS 26.348 5GMS Protocol Extensions for 5GMS via eMBMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;d88ee7e3.2205B&S=) | Thomas Stockhammer | Fri, 13 May 2022 04:35:07 +0000 |

**Revisions:**

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| [S4-220592](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220592.zip) | 5/12/2022 16:20 |
| [S4-220592](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220592.zip) | 5/12/2022 10:55 |
| [S4-220592](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220592.zip) | 5/13/2022 4:34 |

**Online Discussion:**

* None

**Decision:**

* Revised to 870. 870 will go to the closing plenary.

[**S4-220592**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220592.zip)is **revised** to [S4-220870](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220870.zip).

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| [S4-220692](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220692.zip) | [5MBP3]: Clause 5: Corrections and additions to Service Announcement | Ericsson LM | Thorsten Lohmar |

**E-mail Discussion:**

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| [[8.7 5MBP3; 692; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 5: Corrections and additions to Service Announcement -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;5ab5182a.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:54:25 +0000 |
| [[8.7 5MBP3; 692; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 5: Corrections and additions to Service Announcement -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;dbd01dd1.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 12:11:09 +0100 |
| [[8.7 5MBP3; 692; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 5: Corrections and additions to Service Announcement -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;13fea0ca.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 17:20:35 +0000 |
| [[8.7 5MBP3; 692; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 5: Corrections and additions to Service Announcement -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;c3241c84.2205B&S=) | Charles Lo | Thu, 12 May 2022 18:39:20 +0000 |
| [[8.7 5MBP3; 692; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 5: Corrections and additions to Service Announcement -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;b9fae503.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:25:45 +0000 |

**Revisions:**

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| [S4-220692](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220692.zip) | 5/12/2022 17:19 |
| [S4-220692](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220692.zip) | 5/12/2022 11:10 |
| [S4-220692](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220692.zip) | 5/12/2022 18:37 |

**Online Discussion:**

* r05\_BBC presented by Thorsten.

**Decision:**

* 692 is revised to 864. 864 is agreed without presentation.

[**S4-220692**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220692.zip)is **revised** to [S4-220864](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220864.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220692.zip)864 | [5MBP3]: Clause 5: Corrections and additions to Service Announcement | Ericsson LM | Thorsten Lohmar |

**Decision:**

* Agreed without presentation.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220692.zip)**864** is **agreed.**

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| [S4-220693](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220693.zip) | [5MBP3]: Clause 6: Object Delivery Method | Ericsson LM | Thorsten Lohmar |

**E-mail Discussion:**

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| [[8.7 5MBP3; 693; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 6: Object Delivery Method -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;b81b13ae.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:54:28 +0000 |
| [[8.7 5MBP3; 693; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 6: Object Delivery Method -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;63e52fc8.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 12:58:15 +0100 |
| [[8.7 5MBP3; 693; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 6: Object Delivery Method -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;16056554.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 17:11:03 +0000 |
| [[8.7 5MBP3; 693; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 6: Object Delivery Method -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;34d38f8b.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 20:32:06 +0100 |
| [[8.7 5MBP3; 693; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 6: Object Delivery Method -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;ecbd47d5.2205B&S=) | Thomas Stockhammer | Fri, 13 May 2022 03:18:07 +0000 |
| [[8.7 5MBP3; 693; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 6: Object Delivery Method -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;3ba25bd9.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:26:56 +0000 |

**Revisions:**

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| [S4-220693](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220693.zip) | 5/12/2022 11:29 |
| [S4-220693](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220693.zip) | 5/12/2022 17:10 |
| [S4-220693](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220693.zip) | 5/13/2022 3:16 |

**Online Discussion:**

* r04 presented by Thorsten.
* Richard: There is a contentious on which FDT is to be used. Is L6 superseded by L4?
* Frederic: To be managed offline.

**Decision:**

* Revised to 865. 865 will go to the closing plenary.

[**S4-220693**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220693.zip)is **revised** to [S4-220865](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220865.zip).

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| [S4-220694](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip) | [5MBP3]: Clause 7: Packet Delivery Method updates | Ericsson LM | Thorsten Lohmar |

**E-mail Discussion:**

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| [[8.7 5MBP3; 694; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 7: Packet Delivery Method updates -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;3a58182c.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:54:29 +0000 |
| [[8.7 5MBP3; 694; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 7: Packet Delivery Method updates -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;289e06c2.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 12:59:58 +0100 |
| [[8.7 5MBP3; 694; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 7: Packet Delivery Method updates -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;9e892ae7.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 17:13:47 +0000 |
| [[8.7 5MBP3; 694; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 7: Packet Delivery Method updates -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;ae77313.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 20:38:31 +0100 |
| [[8.7 5MBP3; 694; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 7: Packet Delivery Method updates -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;b8b274cb.2205B&S=) | Thomas Stockhammer | Fri, 13 May 2022 03:25:13 +0000 |
| [[8.7 5MBP3; 694; Block A; 13May 0600 CEST] pCR TS 26.517 [5MBP3]: Clause 7: Packet Delivery Method updates -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;e1b77857.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:28:06 +0000 |

**Revisions:**

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| [S4-220694](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip) | 5/12/2022 17:13 |
| [S4-220694](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip) | 5/12/2022 11:59 |
| [S4-220694](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip) | 5/13/2022 3:24 |

**Online Discussion:**

* r03 presented by Thorsten.

**Decision:**

* Revised to 866. 866 is agreed without presentation.

[**S4-220694**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip)is **revised** to [S4-220866](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220866.zip).

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip)866 | [5MBP3]: Clause 7: Packet Delivery Method updates | Ericsson LM | Thorsten Lohmar |

**Decision:**

* Agreed without presentation.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip)**866** is **agreed**.

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| [S4-220695](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220695.zip) | [5MBP3]: Feature reduced FLUTE FDT Schema | Ericsson LM | Thorsten Lohmar |

**E-mail Discussion:**

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| [[8.7 5MBP3; 695; Block A; 13May 0600 CEST] dCR TS 26.346 [5MBP3]: Feature reduced FLUTE FDT Schema -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;1d5b364.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 09:54:17 +0000 |
| [[8.7 5MBP3; 695; Block A; 13May 0600 CEST] dCR TS 26.346 [5MBP3]: Feature reduced FLUTE FDT Schema -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;914e8ec4.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 13:10:08 +0100 |
| [[8.7 5MBP3; 695; Block A; 13May 0600 CEST] dCR TS 26.346 [5MBP3]: Feature reduced FLUTE FDT Schema -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;12827630.2205B&S=) | Thorsten Lohmar | Thu, 12 May 2022 16:38:05 +0000 |
| [[8.7 5MBP3; 695; Block A; 13May 0600 CEST] dCR TS 26.346 [5MBP3]: Feature reduced FLUTE FDT Schema -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;a9b79c80.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 20:12:25 +0100 |
| [[8.7 5MBP3; 695; Block A; 13May 0600 CEST] dCR TS 26.346 [5MBP3]: Feature reduced FLUTE FDT Schema -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;4c200b73.2205B&S=) | Thomas Stockhammer | Fri, 13 May 2022 03:43:14 +0000 |
| [[8.7 5MBP3; 695; Block A; 13May 0600 CEST] dCR TS 26.346 [5MBP3]: Feature reduced FLUTE FDT Schema -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;e80ce394.2205B&S=) | Gabin, Frederic | Fri, 13 May 2022 04:24:25 +0000 |

**Revisions:**

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| [S4-220695](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220695.zip) | 5/12/2022 12:08 |
| [S4-220695](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220695.zip) | 5/12/2022 16:37 |

**Online Discussion:**

* r05 presented by Thorsten.
* Frederic:Update cover sheet to a formal CR.

**Decision:**

* Revised to 863. 863 is agreed without presentation and goes to the plenary

[**S4-220695**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220695.zip)is **revised** to [S4-220863](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220863.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220695.zip)863 | [5MBP3]: Feature reduced FLUTE FDT Schema | Ericsson LM | Thorsten Lohmar |

**Decision:**

* Agreed without presentation and goes to the plenary

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220695.zip)**863** is **agreed.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip)818 | WIS for 5MBP3 | Ericsson LM | Thorsten Lohmar |

**Decision:**

* Goes to the plenary**.**

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip)**818** goes to the plenary.

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip)867 | Draft TS 26.517 v1.2.0 | Ericsson LM | Thorsten Lohmar |

**Decision:**

* Will go to the closing plenary

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220694.zip)**867** goes to the closing plenary**.**

## 8.8 5GMS\_EDGE\_3 (Edge Extensions to 5GMS Stage 3)

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| [S4-220624](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip) | Consolidated CR on Edge | Qualcomm Technologies Ireland | Imed Bouazizi |

**E-mail Discussion:**

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| [[8.8 5GMS\_EDGE\_3 ; 624; Block A; 12May 0600 CEST] CR TS 26.512-0020 CR on Adding Edge Support -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;a7878e6e.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:37:54 +0000 |
| [[8.8 5GMS\_EDGE\_3 ; 624; Block A; 12May 0600 CEST] CR TS 26.512-0020 CR on Adding Edge Support -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;ad920db3.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 10:10:52 +0100 |
| [[8.8 5GMS\_EDGE\_3 ; 624; Block A; 12May 0600 CEST] CR TS 26.512-0020 CR on Adding Edge Support -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;d0d47c76.2205B&S=) | Imed Bouazizi | Wed, 11 May 2022 13:56:54 +0000 |
| [[8.8 5GMS\_EDGE\_3 ; 624; Block A; 12May 0600 CEST] CR TS 26.512-0020 CR on Adding Edge Support -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;e3a56d0a.2205B&S=) | Iraj Sodagar | Wed, 11 May 2022 17:55:50 +0000 |
| [[8.8 5GMS\_EDGE\_3 ; 624; Block A; 12May 0600 CEST] CR TS 26.512-0020 CR on Adding Edge Support -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;1f48ed3f.2205B&S=) | Imed Bouazizi | Wed, 11 May 2022 18:08:57 +0000 |
| [[8.8 5GMS\_EDGE\_3 ; 624; Block A; 12May 0600 CEST] CR TS 26.512-0020 CR on Adding Edge Support -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;a6321b46.2205B&S=) | Imed Bouazizi | Thu, 12 May 2022 01:12:26 +0000 |
| [[8.8 5GMS\_EDGE\_3 ; 624; Block A; 12May 0600 CEST] CR TS 26.512-0020 CR on Adding Edge Support -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f4c4c379.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 04:06:25 +0000 |
| [[8.8 5GMS\_EDGE\_3 ; 624->801; Block A; 12May 0600 CEST] CR TS 26.512-0020 CR on Adding Edge Support -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;15adb2dc.2205B&S=) | Richard Bradbury | Thu, 12 May 2022 08:45:46 +0100 |

**Revisions:**

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| [S4-220624](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip) | 5/11/2022 9:05 |
| [S4-220624](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip) | 5/12/2022 1:10 |

**Online Discussion:**

* Imed summarised change in 624r01.
* Richard: Provisioning Sessions API is not a 5GMS feature by itself like metrics reporting or consumption reporting.
* Imed: then why add that API to EDGE?
* Richard: It’s necessary for supporting EDGE functionality
* Some more fixing needed by Imed including the date and title of CR.

**Decision:**

* Revised to 801.

[**S4-220624**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip)is **revised to** [**S4-220801**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220801.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip)801 | Consolidated CR on Edge | Qualcomm Technologies Ireland | Imed Bouazizi |

**E-mail Discussion:**

See [S4-220624](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip).

**Revisions:**

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| [S4-220801](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220801.zip) | 5/12/2022 5:32 |

**Online Discussion:**

* Was presented by Richard.
* Frederic: There is a mistake in the source (Should be WG : Qualcomm and TSG: S4).

**Decision:**

* Revised to 844. 844 is agreed without presentation and goes to the plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip)**801** is **revised** to [S4-220844](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220844.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip)844 | Consolidated CR on Edge | Qualcomm Technologies Ireland | Imed Bouazizi |

**E-mail Discussion:**

See [S4-220624](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip).

**Decision:**

* Agreed without presentation and goes to the plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220624.zip)**844** is **agreed.**

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| [S4-220649](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220649.zip) | [EDGE] Improved CR on edge provisioning procedures | Tencent Cloud, Qualcomm, BBC | Iraj Sodagar |

**E-mail Discussion:**

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| [[8.8 5GMS\_EDGE\_3 ; 649; Block A; 12May 0600 CEST] CR TS 26.501-0038 Improved CR on edge provisioning procedures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;fe66e3fe.2205B&S=) | Gabin, Frederic | Wed, 11 May 2022 08:37:56 +0000 |
| [[8.8 5GMS\_EDGE\_3 ; 649; Block A; 12May 0600 CEST] CR TS 26.501-0038 Improved CR on edge provisioning procedures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;19802723.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 10:34:55 +0100 |
| [[8.8 5GMS\_EDGE\_3 ; 649; Block A; 12May 0600 CEST] CR TS 26.501-0038 Improved CR on edge provisioning procedures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;64b415b9.2205B&S=) | Iraj Sodagar | Wed, 11 May 2022 17:35:50 +0000 |
| [[8.8 5GMS\_EDGE\_3 ; 649; Block A; 12May 0600 CEST] CR TS 26.501-0038 Improved CR on edge provisioning procedures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;814a3be3.2205B&S=) | Richard Bradbury | Wed, 11 May 2022 21:14:33 +0100 |
| [[8.8 5GMS\_EDGE\_3 ; 649; Block A; 12May 0600 CEST] CR TS 26.501-0038 Improved CR on edge provisioning procedures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;a7a78ad9.2205B&S=) | Imed Bouazizi | Thu, 12 May 2022 02:13:40 +0000 |
| [[8.8 5GMS\_EDGE\_3 ; 649; Block A; 12May 0600 CEST] CR TS 26.501-0038 Improved CR on edge provisioning procedures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MBS;f73d3d46.2205B&S=) | Gabin, Frederic | Thu, 12 May 2022 04:08:53 +0000 |

**Revisions:**

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| [S4-220649](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220649.zip) | 5/11/2022 9:33 |
| [S4-220649](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220649.zip) | 5/11/2022 17:31 |

**Online Discussion:**

* r01 was presented by Iraj.
* Was agreeable via emails.
* Frederic: Work item code to be changed because you are fixing stage 2. TDoc numbers will also have to be updated.

**Decision:**

* Revised to 802. 802 will be agreed without presentation.

[**S4-220649**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220649.zip)is **revised** to [S4-220802](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220802.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220649.zip)802 | [EDGE] Improved CR on edge provisioning procedures | Tencent Cloud, Qualcomm, BBC | Iraj Sodagar |

**E-mail Discussion:**

See [S4-220649](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220649.zip).

**Decision:**

* Agreed without presentation.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220649.zip)**802** is **agreed.**

## 8.9 FS\_NPN4AVProd (Feasibility Study on Media Production over 5G NPN)

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| [S4-220687](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220687.zip) | draft TR 26.805 v1.2.1 | Ericsson India Private Limited | Thorsten Lohmar |

**Online Discussion:**

* Discussion on creating 900-series TR for this work
* Can complete the TR and consider new Study Item at next meeting
* Thomas: would like to publish 900-series TR as guideline
* Thorsten: was not familiar with 800 vs 900-series TRs
* Frederic: only difference is the publication by SDOs; if 900 series then get ETSI TR spec for it; if 800, stays as 3GPP-only TR
* To do a guideline TR, perhaps that should be done by 5G MAG?
* Thorsten; concern with deprecating TR 26.805; since changing TR number means removing TR 26.805?
* Frederic: it means TR 26.805 will not be upgradeable beyond Rel-17
* Thomas: getting confusing - thinks relevant material should be promoted and consolidated into guideline document - that could be task for 5G MAG
* Frederic: this would mean reopening -688 which was previously agreed and instead that would be noted

**Decision:**

* Agreed as a basis for further work via emails but a revision is needed for the TR.

[**S4-220687**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220687.zip)is **revised** to [S4-220813](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220813.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220687.zip)813 | draft TR 26.805 v1.2.1 | Ericsson LM | Thorsten Lohmar |

**Online Discussion:**

* None

**Decision:**

* Goes to the plenary**.**

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220687.zip)**813** goes to the plenary**.**

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| [S4-220688](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220688.zip) | New SI on Media Production over 5G NPNs [SIDFS\_5G\_4\_AVProd] | Ericsson LM | Thorsten Lohmar |

**E-mail Discussion:**

**Decision:**

* Agreed via emails. But then noted according to online discussions (best to stick with existing TR number as it is referenced by other groups).

[**S4-220688**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220688.zip)is **noted.**

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| [S4-220689](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220689.zip) | [FS\_NPN4AVProd]: Proposal of a study conclusion clause | Ericsson LM | Thorsten Lohmar |

**Revisions:**

689r01\_BBC

**Online Discussion:**

* r01 \_BBC was presented by Richard.
* Thorsten: Bullet 7 in clause 8 could be moved to clause 7.
* Frederic: Should the Editor’s note go away?
* Thorsten: Yes, it should go away. Maybe add IP multicast related description in the Recommendation.
* Thorsten: For Clause 8 title, is “Recommendations” OK?
* Frederic: My recommendation would be to use “Guidelines”.
* Thomas: My recommendation would be “Implementary guidelines” for clause 8 and move clause 7 to the last.

**Decision:**

* Revised to 872. 872 will go to the plenary.

[**S4-220689**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220689.zip)is **revised** to [S4-220872](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220872.zip)**.**

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| [S4-220720](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220720.zip) | [FS\_NPN4AVProd] Solutions for KI#6 | Sennheiser Electronic GmbH | Jens Pilz |

**Online Discussion:**

* Was presented by Jens.
* Frederic: You have plenty of references to add. This has to be managed by the editor.
* Richard: I would like time to read it.
* Frederic: OK, I will trigger an email.

**Decision:**

* Revised to 873. 873 will go to the closing plenary.

[**S4-220720**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220720.zip)is **revised** to [S4-220873](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220873.zip)**.**

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| [S4-220593](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220593.zip) | [FS\_NPN4AVProd] System features for delay sensitive flows and time synchronization | Qualcomm Incorporated | Thomas Stockhammer |

**Online Discussion:**

* Was presented by Thomas.
* Thorsten: The mix of TSN and PTP can be confusing. Mixed usage of GPTP and PTP in IEEE. There is also IP-based (IEEE Std 1588) vs. Ethernet-based PTP. I’m only focused on PTP as in Proposal 2. Not clear what is specific action for SA4 at this time.
* Frederic: Do we see gaps or need for another profile?
* Thomas: That work is related to AVProd work from SA1; problem is that 80-series is under the hood, 900-series for 5G related work. Would be reluctant to do follow-up 900 series version of TR 26.805 (??)
* Thorsten: wish to finish up the TR for NPN4AVProd at this meeting
* Thorsten: how do we capture work or features from other groups that may be relevant for our TR?
* Thomas: Will check with Qualcomm SA2 colleague that whatever we added from SA2 is correct.
* Thorsten: It is less an issue of what SA2 has done vs. how to incorporate such into SA4 TR.

**Decision:**

* Agreed on the proposal.

[**S4-220593**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220593.zip)is **agreed.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220593.zip)804 | FS\_NPN4AVPROD Work Item Summary | Ericsson LM | Thorsten Lohmar |

**Online Discussion:**

* None

**Decision:**

* Goes to the plenary**.**

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220593.zip)**804** goes to the plenary**.**

## 8.10 FS\_5G\_MSE (Feasibility Study on 5G Media Service Enablers)

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| [S4-220597](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220597.zip) | [FS\_5G\_MSE] Proposed Time Plan | Qualcomm Incorporated | Thomas Stockhammer |

**Online Discussion:**

* None.

**Decision:**

* Goes to the plenary**.**

[**S4-220597**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220597.zip)goes to the plenary**.**

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| [S4-220650](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220650.zip) | [FS\_5G\_MSE] A framework for MSE specifications and implementations | Tencent Cloud | Iraj Sodagar |

**Online Discussion:**

* r01 was presented by Iraj.
* Thomas: My comment was not to say I agree with the framework, but rather : one option is the framework.
* Frederic: Do you agree with a potential framework?
* Thomas: Yes. I like it but we need to take it as one example.
* Richard: I would like to scan it after the call.
* Frederic: We need a r2.
* Iraj: I wait for Richard to review and I will create a revision 2.
* Iraj: clarifies that the proposal is not exactly the NBMP approach.

**Decision:**

* Revised to 874. 874 will go to the closing plenary.

[**S4-220650**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220650.zip)is **revised** to [S4-220874](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220874.zip)**.**

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

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| [S4-220598](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220598.zip) | [FS\_SmartAR] Proposed Timeplan | Qualcomm Incorporated | Thomas Stockhammer |

**Online Discussion:**

* None

**Decision:**

* Goes to the plenary**.**

[**S4-220598**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220598.zip)goes to the plenary**.**

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| [S4-220600](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220600.zip) | [FS\_SmarTAR] Tethering architectures | Qualcomm Incorporated | Thomas Stockhammer |

**Decision:**

* Agreed via emails.

[**S4-220600**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220600.zip)is **agreed.**

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| [S4-220601](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220601.zip) | [FS\_SmarTAR] Initial Call flows | Qualcomm Incorporated | Thomas Stockhammer |

**Decision:**

* Agreed via emails.

[**S4-220601**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220601.zip)is **agreed.**

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| [S4-220659](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220659.zip) | pCR Summary of WLAR work in Rel-17 | Huawei, Hisilicon | Qi Pan |

**Online Discussion:**

* r01 was presented by Thomas.
* Thomas: not sure 4.1 is the right clause - for editor to check/fix.

**Decision:**

* Revised to 820. 820 is agreed without presentation.

[**S4-220659**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220659.zip)is **revised** to [S4-220820](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220820.zip)**.**

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| --- | --- | --- | --- |
| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220659.zip)820 | pCR Summary of WLAR work in Rel-17 | Huawei, Hisilicon | Qi Pan |

**E-mail Discussion:**

See [S4-220659](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220659.zip).

**Decision:**

* Agreed without presentation.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220659.zip)**820** is **agreed.**

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| [S4-220661](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220661.zip) | pCR QoS control for Relay AR when 5G sidelink used | Huawei, Hisilicon | Qi Pan |

**Revisions:**

661r01 was presented by Qi

**Online Discussion:**

* Liangping (Qualcomm): this version looks fine
* Frederic: What does “semmed” mean?
* Qi: It should be “seemed”.
* Frederic: We need a revision, this will be managed in.

**Decision:**

* Revised to 840. 840 will be agreed without presentation.

[**S4-220661**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220661.zip)is **revised** to [S4-220840](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220840.zip)**.**

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| --- | --- | --- | --- |
| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220661.zip)840 | pCR QoS control for Relay AR when 5G sidelink used | Huawei, Hisilicon | Qi Pan |

**E-mail Discussion:**

See [S4-220661](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220661.zip).

**Decision:**

* Agreed without presentation.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220661.zip)**840** is **agreed.**

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| [S4-220678](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220678.zip) | pCR to TR 26.806 FS\_SmarTAR, on PIN (Personal IoT Network) overview | Dolby Laboratories Inc. | Frederic Gabin |

**Online Discussion:**

* Frederic: Figure YYY might change based on SA2 decision; relay function is unclear at this time
* Liangping: PEGC is the phone and acts as PEGC doesn’t think multihop relay would be involved
* Liangping: diagram cause confusion showing phone as combo
* Qi: PINAPP architecture - which WG is the source?
* Frederic: this is from SA6; I said SA2 in error. There is both SA2 and SA6 work to be tracked by us

**Decision:**

* Agreed.

[**S4-220678**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220678.zip)is **agreed.**

## 8.12 New Work / New Work Items and Study Items

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| [S4-220602](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220602.zip) | Draft WID on 5GMS Advanced | Qualcomm Incorporated | Thomas Stockhammer |

**Online Discussion:**

* r01 was presented by Thomas.
* Iraj: 724 (New WID on new 5GMS extensions, Stage-2 from Tencent) is quite similar (except the name). But 724 provides more details on objectives.
* Thomas: That's a reference to the technical report. There is no need to explain more than what is in the technical report.
* Thorsten: Thinks many of these items are fine - mooretext needed and is editing task. On UL media streaming, there is no independent UL streaming architecture. Many instances that UL and DL streaming are combined.
* Thomas: UL streaming needs more study. I thought we concluded to include UL streaming. We know what we need to do based on the Study
* Thorsten: My point is that we have obtained additional knowledge upon completing the study
* Thomas: prefers not to do much more work beyond the findings of the TR.
* Frederic: What is the meaning of deployments operated independently of EDGEAPP?
* Imed: No certainty that EDGEAPP from SA6 will be deployed. Idea is to explore alternatives to EDGEAPP.
* Frderic: do we know what needs to be done if not based on EDGEAPP
* Imed: we don’t intend to bypass EDGEAPP
* Frederic: we should be more careful in the related description
* Richard: would be hesitant to do normative work without adequate study on EDGEAPP alternatives. WI document should not repeat conclusion from Study.
* Thorsten: he doesn;’t find split-rendering from the TR
* Thomas: 928 motivates split-rendering
* Frederic: UL streaming and e2e low latency live streaming topics are in alignment with opinions on these in -724
* Frederic: also 4+ companies support for 5GMS over 5MBS, and 5GMS hybrid services (5MBS and 5GMS); less than 4 companies support for edge processing independent of EDGEAPP
* There is other WI work on split rendering
* Imed: we would follow architecture of MSE regarding split rendering
* Hybrid DASH/HLS operation has 4+ companies support
* Frederic: suggest champion companies and supporters work offline to propose the stage 2 work item based on -724; offline call 4 pm CEST on Thur

**Decision:**

* 602 and 724 are merged in 842. 842 will go to the closing plenary.

[**S4-220602**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220602.zip)is **merged** in [S4-220842](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220842.zip).

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| [S4-220603](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220603.zip) | Proposal for Rel-18 MBS WID scheduling | Qualcomm Incorporated | Thomas Stockhammer |

**Online Discussion:**

* Was presented by Thomas.
* Key is to focus only on Stage 2 work during SA4#119-e
* Frederic: Advises we must finalise stage 2 by March 2023. Plenty of time to work on stage 3 afterwards.

**Decision:**

* Agreed via emails.

[**S4-220603**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220603.zip)is **agreed.**

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| [S4-220626](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220626.zip) | Draft WID on Enhancements to 5G Edge Media Processing | Qualcomm Technologies Ireland | Imed Bouazizi |

**Decision:**

* Via emails : Let’s note 626 and make sure 5GMSA stage 2 work covers the needed/agreed related EDGE media processing aspects.

[**S4-220626**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220626.zip)is **noted.**

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| [S4-220652](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220652.zip) | For Information: Updated draft New WID on new 5GMS extensions | Tencent Cloud | Iraj Sodagar |

**Decision:**

* Noted via emails.

[**S4-220652**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220652.zip)is **noted.**

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| [S4-220713](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220713.zip) | Feasibility Study on Network Slicing Extensions | Samsung Electronics Co., Ltd., BBC, AT&T, Meta Ireland, LG Electronics Inc., TELUS | Prakash Kolan |

**Decision:**

* Agreed via emails. The scope is 5GMS (including EDGE, EVEX, 5MBS) architecture. This will go to the plenary.

[**S4-220713**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220713.zip)is **agreed.**

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| [S4-220724](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220724.zip) | WID on new 5GMS extensions, Stage-2 (NEXT2) | Tencent Cloud | Iraj Sodagar |

**Online Discussion:**

* Was presented by Iraj.
* Imed: These extensions to the Edge part on provisioning, is it stage 2 or stage 3?
* Iraj: This part is stage 2.
* Imed: To me, it is changing the architecture.
* Frederic: The approach of 724 seems to have more support than 602. Are we agreeable on the first three objectives as listed: UL streaming, content preparation and low latency live streaming
* Imed: where do these topics come from?
* Iraj: from conclusion of the 5GMS\_EXT study
* Thosten: would also suggest adding inputs from NPNAVProd
* Frederic: Who supports the uplink streaming? Input from 5GMS and NPN4AVProd. 4 supporting companies. On content prep - Only 2 companies support. On low-latency live streaming - 4+ companies support; some uncertainty on support for provisioning capacity. Qualcomm and Dolby suggest having better understanding of this topic before committing.
* Richard: maybe we need to do a study first on provisioning capacity

**Decision:**

* 602 and 724 are merged in 842. 842 will go to the closing plenary.

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220724.zip)**724** is **merged** in [S4-220842](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220842.zip)**.**

## 8.13 Others including TEI

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| [S4-220679](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220679.zip) | CR 26.346-0659 on Content Encoding Signaling relaxation (Rel-17) | Dolby Laboratories Inc. | Frederic Gabin |

**Revisions:**

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| --- | --- |
| [S4-220679](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220679.zip) | 5/11/2022 10:06 |
| [S4-220679](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220679.zip) | 5/12/2022 3:38 |

**Online Discussion:**

* r01 was presented by Frederic
* Agreeable over email.
* Thorsten: This would be better to be in separate sections (‘may’ with gzip encoding and ‘shall’ for the other case)

**Decision:**

* Revised to 875. 875 will go to the closing plenary.

[**S4-220679**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220679.zip)is **revised** to [S4-220875](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220875.zip).

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| [S4-220684](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220684.zip) | DRAFT Reply to DVB TM-Mcast Liaison on Content Encoding in MBMS FLUTE | Dolby Laboratories Inc. | Frederic Gabin |

**Online Discussion:**

* Frederic: Malaga to be removed.

**Decision:**

* Revised to 797

[**S4-220684**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220684.zip)is **revised** to [S4-220797](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220797.zip)**.**

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| [S4-220](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220684.zip)797 | DRAFT Reply to DVB TM-Mcast Liaison on Content Encoding in MBMS FLUTE | Dolby Laboratories Inc. | Frederic Gabin |

**Online Discussion:**

* None

**Decision:**

* Goes to the plenary**.**

[**S4-220**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_119-e/Docs/S4-220684.zip)**797** goes to the plenary**.**

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

See time plans

## 8.15 Any Other Business

none

## 8.16 Close of the session

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

The online session was closed on May 19, 2022 at 08:11 (CEST).

## 8.17 Attendees

|  |  |  |  |
| --- | --- | --- | --- |
| **TITLE** | **Family Name** | **Given Name** | **Organization Represented** |
| Dr. | Bouazizi | Imed | Qualcomm Technologies Ireland |
| Dr. | Bradbury | Richard | BBC |
| Mr. | Burdinat | Christophe | ATEME |
| Mr. | Champel | Mary-Luc | Beijing Xiaomi Electronics |
| Dr. | Chen | Lulin | MediaTek Inc. |
| Mr. | Choi | Hyung-Nam | Motorola Mobility UK Ltd. |
| Mr. | Doehla | Stefan | Fraunhofer IIS |
| Ms. | Dong | Xufei | China Unicom |
| Mr. | Fontaine | Loic | InterDigital France R&D, SAS |
| Mr. | Gabin | Frederic | Dolby Laboratories Inc. |
| Mr. | Gao | Shuai | China Unicom |
| Mr. | Gibellino | Diego | TELECOM ITALIA S.p.A. |
| Dr. | Han | Jae-Shin | LG Electronics Finland |
| Dr. | He | Xuan (Shane) | Nokia Germany |
| Mr. | Heikkilä | Gunnar | Ericsson Inc. |
| Mr. | Howells | Elfed | Huawei Tech.(UK) Co.. Ltd |
| Mr. | Kwon | WooSuk | LG Electronics Inc. |
| Dr. | Lee | Brian | Dolby Laboratories Inc. |
| Dr. | Lee | Hakju Ryan | Samsung Guangzhou Mobile R&D |
| Mr. | Lemotheux | Julien | Orange Spain |
| Dr. | Liangping | Ma | QUALCOMM Europe Inc. - Italy |
| Mr. | Lo | Charles | Qualcomm Finland RFFE Oy |
| Dr. | Lohmar | Thorsten | Ericsson India Private Limited |
| Mrs. | Martin-Cocher | Gaelle | InterDigital, Europe, Ltd. |
| Mr. | Morita | Naotaka | NTT Advanced Technology Corpor |
| Mr. | Onno | Stephane | InterDigital Finland Oy |
| Dr. | Pan | Qi | Huawei Technologies R&D UK |
| Mr. | Pilz | Jens | Sennheiser Electronic GmbH |
| Mr. | Rhyu | Sungryeul | Samsung Electronics GmbH |
| Dr. | Ridge | Justin | Nokia Korea |
| Dr. | Sodagar | Iraj | Tencent Cloud |
| Dr. | Song | Jaeyeon | BEIJING SAMSUNG TELECOM R&D |
| Mr. | Steck | Chris | DTS Licensing Limited |
| Dr. | Stockhammer | Thomas | Qualcomm France |
| Dr. | Su | Huan-yu | HuaWei Technologies Co., Ltd |
| Dr. | Tech | Gerhard | Fraunhofer HHI |
| Mr. | Teniou | Gilles | Tencent |
| Mr. | Thomas | Emmanuel | Xiaomi Communications |
| Mr. | Wang | Dong | Guangdong OPPO Mobile Telecom. |
| Dr. | Wang | Xin | MediaTek Inc. |
| Dr. | Wey | Jun Shan | Verizon Switzerland AG |
| Miss | Xu | Jiayi | China Mobile Com. Corporation |
| Dr. | Yang | Hyun-Koo | Samsung Electronics Nordic AB |
| Mrs. | Yin | Yujian | China Mobile Com. Corporation |
| Mr. | Yip | Eric | Samsung Electronics Iberia SA |
| Dr. | Zhao | Shuai | Intel Sweden AB |

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   Tel (mobile): +33 678 44 85 75

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