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

**Title: 3GPP SA4 MBS SWG report at SA4#109-e**

**Document for: Approval**

**Agenda item: 13.2**

MBS SWG Minutes during SA4#109-e

## 8.1 Opening of the session

The MBS SWG email discussions started on Monday 25 May at 0623 CEST.

MBS SWG Telcos are on:

* Tuesday 26 May 1500-1630 CEST
* Thursday 28 May 0730-0900 CEST
* Friday 29 May 0600-0730 CEST

Mr. Frédéric Gabin (Ericsson, Chairman of MBS SWG) opens the telco sessions on May 26 at 1500 CEST.

This document was shared [online](https://docs.google.com/document/d/1nydagKIwU7MGrdWBBqnOHX3agyc75DrOWJgWrqhGW9E/edit?usp=sharing).

Scribes: Lucia and Paul volunteered. Thomas offered to provide e-mail discussion.

Details are here

* <https://list.etsi.org/scripts/wa.exe?A1=ind2005D&L=3GPP_TSG_SA_WG4_MBS>
* <https://list.etsi.org/scripts/wa.exe?A1=ind2006A&L=3GPP_TSG_SA_WG4_MBS>

Latest Timestamp: 2020-06-02 (Tue) 13:35:47 DE

## 8.2 Registration of documents

The following documents were allocated at the start of the MBS online session, May 26, 2020

|  |  |  |
| --- | --- | --- |
| **8** | **Multicast-Broadcast-Streaming (MBS) SWG** |  |
| 8.1 | Opening of the session |  |
| 8.2 | Registration of documents |  |
| 8.3 | Reports/Liaisons from other groups/meetings | **723, 733,**  **720, 721** |
| 8.4 | Issues for immediate consideration |  |
| 8.5 | CRs to features in Release 15 and earlier | **712&715, 713&716, 714&717** |
| 8.6 | CRs to completed features in Release 16 | **5GMSA: 707, 703->732, 809, 811, 812, 823, 824**  **TEI16: 757** |
| 8.7 | 5GMS3 (5G Media Streaming stage 3) | **TP: 753**  **ES: 754**  **26.512: 727, 745, 746, 751, 752, 758, 759, 805, 820, 821, 822, 839, 847**  **NA: 755, 810**  **26.511: 760, 761, 848, 849** |
| 8.8 | FS\_5GMS\_Multicast (Feasibility Study on Multicast Architecture Enhancements for 5GMSA) | **26.802: 837**  **773, 841** |
| 8.9 | FS\_EMSA (Feasibility Study on Streaming Architecture extensions For Edge processing) | **749, 750, 806, 842, 843**  **26.803: 774, 808, 813, 844** |
| 8.10 | New Work / New Work Items and Study Items |  |
| 8.11 | Others including TEI |  |
| 8.12 | Review of the future work plan (next meeting dates, hosts) |  |
| 8.13 | Any Other Business |  |
| 8.14 | Close of the session |  |

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| [Doc](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200733.zip) Number | Title | Source | Agenda Item |
| [S4-200720](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200720.zip) | Reply LS on QoE Measurement Collection | 3GPP SA5 | 8.3 |
| [S4-200721](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200721.zip) | Reply LS on QoE Measurement Collection | 3GPP SA5 | 8.3 |
| [S4-200723](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200723.zip) | PHASE 1 TECHNICAL SPECIFICATION ON ABR MULTICAST | DVB | 8.3 |
| [S4-200733](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200733.zip) | LS on ABR Multicast Phase 1 Technical Specification | BBC | 8.3 |
| [S4-200712](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200712.zip) | Correction on Partial File Handling | Qualcomm Incorporated | 8.5 |
| [S4-200713](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200713.zip) | Correction on Partial File Handling | Qualcomm Incorporated | 8.5 |
| [S4-200714](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200714.zip) | Correction on Partial File Handling | Qualcomm Incorporated | 8.5 |
| [S4-200715](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200715.zip) | Correction on Partial File Handling | Qualcomm Incorporated | 8.5 |
| [S4-200716](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200716.zip) | Correction on Partial File Handling | Qualcomm Incorporated | 8.5 |
| [S4-200717](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200717.zip) | Correction on Partial File Handling | Qualcomm Incorporated | 8.5 |
| [S4-200703](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200703.zip) | Update domain model diagrams | BBC | 8.6 |
| [S4-200707](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200707.zip) | Consolidated changes from SA4#108-e et seq. | BBC, Tencent, Sony, Ericsson LM, Qualcomm Incorporated, Enensys | 8.6 |
| [S4-200732](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200732.zip) | Update domain model diagrams | BBC, Ericsson LM | 8.6 |
| [S4-200757](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200757.zip) | Service Announcement API for enTV | Qualcomm Incorporated | 8.6 |
| [S4-200809](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200809.zip) | Correction on Media Architecture | Tencent | 8.6 |
| [S4-200811](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200811.zip) | Correction on Media Ingest procedure | Tencent | 8.6 |
| [S4-200812](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200812.zip) | Correction on Metrics collection and reporting | Tencent | 8.6 |
| [S4-200823](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200823.zip) | Correction to collaboration scenarios (Stage 2) | Ericsson LM | 8.6 |
| [S4-200824](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200824.zip) | Correction of 5GMSd AF-based Network Assistance (Stage 2) | Ericsson LM | 8.6 |
| [S4-200727](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200727.zip) | 5G Media Streaming (5GMS); Protocols | Ericsson Japan K.K. | 8.7 |
| [S4-200745](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200745.zip) | RAN-based Network Assistance | QUALCOMM Europe Inc. - Italy | 8.7 |
| [S4-200746](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200746.zip) | AF-based Network Assistance | QUALCOMM Europe Inc. - Italy | 8.7 |
| [S4-200751](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200751.zip) | Policy Template Provisioning | QUALCOMM Europe Inc. - Italy | 8.7 |
| [S4-200752](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200752.zip) | 5GMSu extension for discovery of application functions | Tencent | 8.7 |
| [S4-200753](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200753.zip) | 5GMS3 work plan V0.13 | Sony Corporation | 8.7 |
| [S4-200754](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200754.zip) | 5GMS3 Exception sheet | Sony Corporation | 8.7 |
| [S4-200755](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200755.zip) | Network Assistance background | Sony Corporation, Ericsson LM | 8.7 |
| [S4-200758](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200758.zip) | Client APIs for 5GMS | Qualcomm Incorporated | 8.7 |
| [S4-200759](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200759.zip) | DASH/CMAF in 5GMS | Qualcomm Incorporated | 8.7 |
| [S4-200760](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200760.zip) | Video Codec Support for Downlink Streaming | Qualcomm Incorporated | 8.7 |
| [S4-200761](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200761.zip) | Proposed General Updates | Qualcomm Incorporated | 8.7 |
| [S4-200805](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200805.zip) | Consumption reporting in M7d interface | ENENSYS | 8.7 |
| [S4-200810](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200810.zip) | Draft LS to CT1 on AT Command Support for Bit Rate Recommendation | QUALCOMM Europe Inc. - Italy | 8.7 |
| [S4-200820](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200820.zip) | 5GMSd AF-based Network Assistance (Stage 3) | Ericsson LM | 8.7 |
| [S4-200821](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200821.zip) | M1d Procedure for Dynamic Policy Provisioning (Stage 3) | Ericsson LM | 8.7 |
| [S4-200822](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200822.zip) | API for Service Access information acquisition (Stage 3) | Ericsson LM, Enensys, BBC | 8.7 |
| [S4-200839](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200839.zip) | APIs for Server Certificates, Content Preparation Templates and Ingest Protocols | BBC | 8.7 |
| [S4-200847](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200847.zip) | 26.512 Content Preparation Template: scope and design for R16 | Tencent | 8.7 |
| [S4-200848](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200848.zip) | Default downlink profile | Orange | 8.7 |
| [S4-200849](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200849.zip) | 5GMS3 TV profiles | Orange | 8.7 |
| [S4-200773](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200773.zip) | [FS\_5GMulticast] More Thoughts on Key Issues | Qualcomm Incorporated | 8.8 |
| [S4-200837](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200837.zip) | [FS\_5GMS\_Multicast] Proposed Skeleton TR 26.802 | TELUS | 8.8 |
| [S4-200841](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200841.zip) | Initial considerations on scenarios and key issues for 5G MS multicast ingestion and distribution | TELUS | 8.8 |
| [S4-200749](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200749.zip) | FS\_EMSA: use cases and technical requirements | Tencent | 8.9 |
| [S4-200750](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200750.zip) | FS\_ESMA: Discovery of Edge Processing Capabilities Requirements | Tencent | 8.9 |
| [S4-200774](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200774.zip) | [FS\_EMSA] Use cases for EMSA Study | Qualcomm Incorporated | 8.9 |
| [S4-200806](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200806.zip) | FS\_EMSA: Edge Caching for Video Streaming | KPN N.V. | 8.9 |
| [S4-200808](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200808.zip) | Downlink Services with Network Edge | Samsung Electronics Co., Ltd. | 8.9 |
| [S4-200813](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200813.zip) | Adding SA2 Architecture and Support for Edge Computing | Tencent | 8.9 |
| [S4-200842](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200842.zip) | EMSA Use Case Template | QUALCOMM Europe Inc. - Italy | 8.9 |
| [S4-200843](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200843.zip) | Overview of ongoing 3GPP activities on Edge | QUALCOMM Europe Inc. - Italy | 8.9 |
| [S4-200844](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200844.zip) | Use case: Caching downlink streaming content | KPN N.V. | 8.9 |

## 8.3 Reports/Liaisons from other groups/meetings

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| [S4-200720](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200720.zip) | Reply LS on QoE Measurement Collection | 3GPP SA5 |

**E-mail Discussion:**

**Presenter: Gunnar Heikkila (Ericsson)**

**Discussion:**

* none

**Decision:**

* reply pending draft CRs (861 on 26.247, and 862 on 26.114)

**S4-200720** is replied to in **S4-200885**.

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| [S4-200885](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200885.zip) | Reply LS on QoE Measurement Collection | 3GPP SA5 |

**S4-200885** is presented to SA4 plenary.

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| [S4-200721](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200721.zip) | Reply LS on QoE Measurement Collection | 3GPP SA5 |

**E-mail Discussion:**

**Presenter: Gunnar Heikkila (Ericsson)**

**Discussion:**

* none

**Decision:**

* reply pending draft CRs (861 on 26.247, and 862 on 26.114)

**S4-200721** is parked.

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| [S4-200862](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200862.zip) | Draft CR 26.247 on QoE Measurement Collection | Ericsson |

**E-mail Discussion:**

**Presenter: Gunnar Heikkila (Ericsson)**

**Discussion:**

* none

**Decision:**

* e-mail agreement

**S4-200862** is sent for email agreement to MTSI (plenary).

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| [S4-200861](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200861.zip) | Draft CR 26.114 on QoE Measurement Collection | Ericsson |

**E-mail Discussion:**

**Presenter: Gunnar Heikkila (Ericsson)**

**Discussion:**

* none

**Decision:**

* agreed

**S4-200861** is agreed.

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| [S4-200723](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200723.zip) | PHASE 1 TECHNICAL SPECIFICATION ON ABR MULTICAST | DVB |

**E-mail Discussion:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Frederic Gabin | ERICSSON | 2020-05-25 (Mon)  17:15:07 DE | [8.3; 723, 733, 26MAY 1400 CEST] LS from DVB and Proposed response LS on ABR Multicast Phase 1 Technical Specification - for agreement | Dear all, I declare the email agreement process started on the Tdocs indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 26th May 1400 CEST the proposed LS in 733 will be agreed as response to 723. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=34968) |
| Thomas Stockhammer | QUALCOMM | 2020-05-25 (Mon)  17:29:09 DE | [8.3; 723, 733, 26MAY 1400 CEST] LS from DVB and Proposed response LS on ABR Multicast Phase 1 Technical Specification - for agreement | Dear experts, Some proposed changes to 723 have been uploaded to the MBS Drafts Folder: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/MBS/S4-200733%20Reply%20to%20LS%20on%20ABR%20Multicast%20Phase%201%20Technical%20Specification%20from%20DVB%20TM-MCast(TS).docx) Sorry for correcting British English with German English. I believe we should recommend to DVB To reference an unversioned number as we as 3GPP make sure that we maintain compatibility with older versions, but do .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=35688) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  13:56:52 DE | [8.3; 723, 733, 26MAY 1400 CEST] LS from DVB and Proposed response LS on ABR Multicast Phase 1 Technical Specification - for agreement | Dear all, I haven't read any comments about the changes proposed. I assume they are agreeable. Let's allocate a revision during our Telco. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=61207) |
| Richard Bradbury | RD | 2020-05-26 (Tue)  15:35:07 DE | [8.3; 723, 733, 26MAY 1400 CEST] LS from DVB and Proposed response LS on ABR Multicast Phase 1 Technical Specification - for agreement | Thanks, Thomas. Here is a draft revision taking into account the comments made during our telco today: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/DRAFT%20S4-200860%20Reply%20to%20LS%20on%20ABR%20Multicast%20Phase%201%20Technical%20Specification%20from%20DVB%20TM-MCast.docx) Let me know of any further revisions in the next day or two. Otherwise, I will contribute this to Final Plenary. On 25/05/2020 16:29, Thomas Stockhammer wrote: > Some proposed changes .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=74641) |
| Richard Bradbury | RD | 2020-05-29 (Fri) 05:53:38 DE | [8.3; 723, 733, 26MAY 1400 CEST] LS from DVB and Proposed response LS on ABR Multicast Phase 1 Technical Specification - for agreement | I have uploaded this revision to the Inbox as \*S4-200860\*: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/S4-200860.zip" \t "_blank) On 26/05/2020 14:35, Richard Bradbury wrote: > Thanks, Thomas. Here is a draft revision taking into account the > comments made during our telco today: > > [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/DRAFT%20S4-200860%20Reply%20to%20LS%20on%20ABR%20Multicast%20Phase%201%20Technical%20Specification%20from%20DVB%25.." \t "_blank) | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=10496" \t "_blank) |

**S4-200723** is replied to in **S4-200860**.

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| [S4-200733](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200733.zip) | LS on ABR Multicast Phase 1 Technical Specification | BBC |

**E-mail Discussion:**

* see under S4-200723

**Presenter: Richard Bradbury(BBC)**

**Discussion:**

* Richard: use section and not clause because this is not a spec
* Thomas: not correct is to cite a version with a subnumber. Doesn’t want DVB to mention a subversion. Another question is about releases. DVB must be aware that bug fixes happen and what is the impact. do we need to reference releases of the spec?
* Fred: putting the version number is not the way to do, but the version number implies the release, and you need to know the release you are referencing and building and using. recommends referencing “rel 16” without the version number
* Thomas: maybe ask ETSI what to do. what Thomas doesnt want is to reference the version number
* Fred: another option is to reference the ETSI version (will be available in july) rather than 3GPP version

**Decision:**

* references “the latest release 16 version of TS 26.346” and revised for plenary.

**S4-200733** is revised to **S4-200860**.

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| [S4-200860](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200860.zip) | Draft Reply LS on ABR Multicast Phase 1 Technical Specification | BBC |

**S4-200860** is presented to SA4 plenary.

## 8.4 Issues for immediate consideration

none

## 8.5 CRs to Features in Release 15 and earlier

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| --- | --- | --- |
| [S4-200712](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200712.zip) | Correction on Partial File Handling | Qualcomm Incorporated |
| [S4-200713](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200713.zip) | Correction on Partial File Handling | Qualcomm Incorporated |
| [S4-200714](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200714.zip) | Correction on Partial File Handling | Qualcomm Incorporated |
| [S4-200715](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200715.zip) | Correction on Partial File Handling | Qualcomm Incorporated |
| [S4-200716](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200716.zip) | Correction on Partial File Handling | Qualcomm Incorporated |
| [S4-200717](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200717.zip) | Correction on Partial File Handling | Qualcomm Incorporated |

**E-mail Discussion:**

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| --- | --- | --- | --- | --- | --- |
| Frederic Gabin | ERICSSON | 2020-05-25 (Mon)  06:23:10 DE | [8.5; 712&715, 713&716, 714&717; 26MAY 1400 CEST] Correction on Partial File Handling - for agreement | Dear all, I declare the email agreement process started on the Tdocs indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 26th May 1400 CEST the Tdocs will be agreed. Tdocs available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=71) |
| Szucs, Paul | SONY | 2020-05-25 (Mon)  13:04:37 DE | [8.5; 712&715, 713&716, 714&717; 26MAY 1400 CEST] Correction on Partial File Handling - for agreement | Dear Mr. Chair, Charles, all, Just an editorial comment - typos spotted in change 2: "a a" and "an the". Best regards, Paul... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=17251) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  14:01:05 DE | [8.5; 712&715, 713&716, 714&717; 26MAY 1400 CEST] Correction on Partial File Handling - for agreement | Paul, I assume your comment only applies to 712&715 right ? If that is the case and since I haven't heard any other comments, 712&715 will be revised and agreed, 713&717 and 714&717 will be agreed. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=62731) |
| Szucs, Paul | SONY | 2020-05-26 (Tue)  14:49:48 DE | [8.5; 712&715, 713&716, 714&717; 26MAY 1400 CEST] Correction on Partial File Handling - for agreement | I actually only checked 715, and I think one of the bugs is in the original text. Best regards, Paul... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=69007) |

**Presenter: Charles Lo (Qualcomm)**

**Discussion:**

* Fred (on 712): dont put TEI 15 but rather the work item code. this applies to the other documents as well. it is important to reference the work item code for the people who implement the features to quickly spot changes
* Fred: 712 and 715: some typos spotted by Paul to fix.
* Charles: will look up the work item code
* Fred: definitely revisions needed for 712 and 715, probably for the other as well to change the WI code

**Decision:**

* revisions to be presented in plenary

**S4-200712** is revised to **S4-200868**.

**S4-200713** is revised to **S4-200869**.

**S4-200714** is revised to **S4-200870**.

**S4-200715** is revised to **S4-200871**.

**S4-200716** is revised to **S4-200872**.

**S4-200717** is revised to **S4-200872**.

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| [S4-200868](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200868.zip) | Correction on Partial File Handling | Qualcomm Incorporated, Enensys |
| [S4-200869](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200869.zip) | Correction on Partial File Handling | Qualcomm Incorporated, Enensys |
| [S4-200870](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200870.zip) | Correction on Partial File Handling | Qualcomm Incorporated, Enensys |
| [S4-200871](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200871.zip) | Correction on Partial File Handling | Qualcomm Incorporated, Enensys |
| [S4-200872](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200872.zip) | Correction on Partial File Handling | Qualcomm Incorporated, Enensys |
| [S4-200873](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200873.zip) | Correction on Partial File Handling | Qualcomm Incorporated, Enensys |

**S4-200868** is presented to SA4 plenary.

**S4-200869** is presented to SA4 plenary.

**S4-200870** is presented to SA4 plenary.

**S4-200871** is presented to SA4 plenary.

**S4-200872** is presented to SA4 plenary.

**S4-200873** is presented to SA4 plenary.

## 8.6 CRs to completed features in Release 16

### 8.6.1 5GMSA



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| [S4-200707](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200707.zip) | Consolidated changes from SA4#108-e et seq. | BBC, Tencent, Sony, Ericsson LM, Qualcomm Incorporated, Enensys |

**E-mail Discussion:**

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| --- | --- | --- | --- | --- | --- |
| Frederic Gabin | ERICSSON | 2020-05-25 (Mon)  06:33:33 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 26th May 1400 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=723) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  11:48:30 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Hi Richard, all, Thanks for the effort. I uploaded a version with some comments into the drafts folder. [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/S4-200707-26501-g31%20%2B%20SA4%23108-e%20Draft%20CRs.doc) BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=10958) |
| Szucs, Paul | SONY | 2020-05-25 (Mon)  13:23:57 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Hi Richard, Thanks from my side too. Just one comment - suggest the title of 4.4, "Network slicing for downlink media streaming". Well, I would have several comments on the definitions clause, but I suppose that would be best addressed in a dedicated draft CR in due course. Best regards, Paul... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=19063) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  14:56:06 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Very quickly on this, Paul: I checked the document and there are 16 occurrences of "Media Downlink Streaming" and 3 occurrences of "downlink media streaming". So maybe the former is the correct term and the latter should be changed? On 25/05/2020 12:23, Szucs, Paul wrote: > Just one comment – suggest the title of 4.4, “Network slicing for > downlink media streaming”. > > \*From:\* 3GPP\_TSG\_SA\_WG4\_MBS \*On Behalf Of \*Frederic Gabin > \*Sent:\* .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=25995) |
| Szucs, Paul | SONY | 2020-05-25 (Mon)  15:02:24 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | I think the latter should be adopted, since "media streaming" is the core term, qualified by downlink or uplink... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=27039) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  16:19:44 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Happy to make that adjustment throughout the document if there is consensus to do that. I invite additional opinions. For reference the scope would need to include: \* Changing 16 occurrences of "Media Downlink Streaming" to match 3 occurrences of "downlink media streaming". \* Changing 20 occurrences of "Media Uplink Streaming" to match 4 occurrences of "uplink media streaming"... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=30227) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  18:10:58 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Thanks for the comments, Thorsten. Here are some responses: \* Clause 3.1 (Terms), "5GMS System": How about the following revised definition that attempts to incorporate the generic aspects of yours: o "A deployment of 5G Media Streaming functions (5GMS Application Functions and, optionally, 5GMS Application Servers) that provides either downlink streaming services or uplink streaming services, or both ." o Just to check: In the case where an AF or AS is deployed in an external DN, .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=39803) |
| Thorsten Lohmar | ERICSSON | 2020-05-26 (Tue)  09:36:07 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Hi Richard, Thanks for taking this up. Please see inline. BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=48923) |
| D'Acunto, L. (Lucia) | TNO | 2020-05-26 (Tue)  13:38:40 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Richard, Thorsten, Thanks for efforts consolidating the CRs. Please see my reflections below. I agree with making the term "application provider" more generic and remove the "3rd party" designation. However, im wondering if the change is only needed in clause 3.1? For example, the document scope already starts with "3rd party media downlink streaming services". Are we changing that one too?.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=60486) |
| Thorsten Lohmar | ERICSSON | 2020-05-26 (Tue)  14:01:54 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Hello, > For example, the document scope already starts with "3rd party media downlink streaming services". Are we changing that one too? The full scope sentence is "The 5GMS supported services include MNO and 3rd party Media Downlink Streaming Services, and MNO and 3rd party Media Uplink Streaming Services.": both are mentioned, thus no need to change... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=63604) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  14:05:14 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Dear all, Let's continue with this Tdoc during today's telco. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=64310) |
| D'Acunto, L. (Lucia) | TNO | 2020-05-26 (Tue)  14:19:56 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Thanks Thorsten, See in line below. Lucia.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=66193) |
| Richard Bradbury | RD | 2020-05-26 (Tue)  16:42:47 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Thanks for the debate on this. I have made the three simple changes in my working draft that Thorsten confirmed. But I note that the document needs to be checked on the point about "third party". Perhaps this can be done separately after SA4#109-e, Lucia? Based on the discussion during today's MBS subworking group telco, I propose the following revised wording:.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=77515) |
| D'Acunto, L. (Lucia) | TNO | 2020-05-27 (Wed)  11:00:29 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Thank you Richard! Indeed I think it is sensible to postpone the check on the point about "third party" after the meeting. Thank you for the revised wording for the 5GMS System. You are using the term "5G Media Streaming functions" for the yellow boxes. I'm just wondering whether this is not confusing to a reader, who may interpret that only Application Functions are part of the 5GMS system. What do you think of the .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=93890) |
| Richard Bradbury | RD | 2020-05-27 (Wed)  11:25:07 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Good idea, Lucia: that gives better clarity. I have editorialised that for readability, and the change also impacted the note below. Here is what I now have: \*5GMS System:\*An assembly of Application Functions, Application Servers and interfaces from the 5G Media Streaming architecture that provide either downlink media streaming services or uplink media streaming services, or both... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=96833) |
| Thorsten Lohmar | ERICSSON | 2020-05-27 (Wed)  11:34:32 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Hello, Can we remove "that provide either downlink media streaming services or uplink media streaming services, or both" from the definition? Or a modification: "that provide or supports either downlink media streaming services or uplink media streaming services, or both" I am thinking about a case, where only a 5GMSd AF is provided, e.g. to activate dynamic policies. The 5GMSx AFs are not directly involved in streaming process... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=98364) |
| Richard Bradbury | RD | 2020-05-27 (Wed)  11:50:08 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | How about simply replacing the word "provide" with "support"? \*5GMS System:\*An assembly of Application Functions, Application Servers and interfaces from the 5G Media Streaming architecture that support either downlink media streaming services or uplink media streaming services, or both. NOTE: The components of a 5GMS System may be provided by an MNO as part of a 5GS and/or by a 5GMS Application Provider... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=101743) |
| Thorsten Lohmar | ERICSSON | 2020-05-27 (Wed)  12:00:02 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Yes, sounds good. BR, /Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=104233) |
| Richard Bradbury | RD | 2020-05-27 (Wed)  13:42:50 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | Thanks for all the feedback via e-mail and in yesterday's meeting. Revision S4-200863 is uploaded here for agreement: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/S4-200863.zip) This includes the following bonus items discussed this week: \* Definition of missing term "5GMS System". \* Modified architecture diagrams with DN depicted in neutral white. \* "Media [Down|Up]link Streaming" -> "[Down|Up]link Media Streaming" throughout. Recall that this is .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=107837) |
| Richard Bradbury | RD | 2020-05-29 (Fri) 09:32:59 DE | [8.6; 707; 26MAY 1400 CEST] Consolidated draft Change Requests from SA4#108-e on TS 26.501 - for agreement | All – Please review my inclusion of \*S4-200732\* (BBC), \*S4-200864\* (Tencent), \*S4-200875\* (Tencent), \*S4-200876\* (Ericsson) and \*S4-200877\* (Ericsson) in my consolidated draft for submission as the CR. These have been applied to approved \*S4-200863\* (BBC). [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/DRAFT%20S4-200882.zip" \t "_blank) Have I forgotten any approved dCRs?.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=18024" \t "_blank) |

**Presenter: Richard Bradbury (BBC)**

**Discussion:**

* Fred and Richard discuss about making a revision and the deadline for presentation to plenary

**Decision:**

* revised to 863

**S4-200707** is revised to **S4-200863**.

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| [S4-200863](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200863.zip) | Consolidated changes from SA4#108-e et seq. | BBC, Tencent, Sony, Ericsson LM, Qualcomm Incorporated, Enensys |

**Presenter: Richard Bradbury (BBC)**

**Discussion:**

* Thomas: doesnt not like that we are changing things here like the gray and blue boxes of the DN merged into the white box

**Decision:**

* Agreed – formal CR is created in **S4-200882**

**S4-200863** is agreed.

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| [S4-200882](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200882.zip) | 5GMSA: CR0018 to TS 26.501 v16.3.1 Consolidated changes from SA4#108-e and SA4#109-e | BBC, Tencent, Sony, Ericsson LM, Qualcomm Incorporated, Enensys |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 12:54:58 DE | [8.7; 882; 2JUNE 1200 CEST] 5GMSA: CR0018 to TS 26.501 v16.3.1 Consolidated changes from SA4#108-e and SA4#109-e -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 2nd June 1200 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e" \t "_blank) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=26319" \t "_blank) |

**S4-200882** is agreed.

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| --- | --- | --- |
| [S4-200732](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200732.zip) | Update domain model diagrams | BBC, Ericsson LM |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-25 (Mon)  06:41:44 DE | [8.6; 732; 26MAY 1400 CEST] Update to domain model diagrams to TS 26.501 - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 26th May 1400 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=1379) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  14:06:12 DE | [8.6; 732; 26MAY 1400 CEST] Update to domain model diagrams to TS 26.501 - for agreement | All, I haven't received any comments on this proposal. It is therefore agreed. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=65389) |

**Presenter: n/a**

**Discussion:**

* none

**Decision:**

* agreed via email

**S4-200732** is agreed via email.

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| [S4-200809](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200809.zip) | Correction on Media Architecture | Tencent |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-25 (Mon)  06:50:03 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 26th May 1400 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=2016) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  10:40:00 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Hello, Thanks for reviewing this section. Some comments. Figure 4.1-1 is not consistent with 4.1-2. We should use consistently "5GMS" instead of "Media" in 4.1-1 BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=9327) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  13:34:16 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | I agree that would be an improvement to the figure, Thorsten. I have made a note, but it would be nice if a revision of this contribution could make that correction if it is generally agreeable. On 25/05/2020 09:40, Thorsten Lohmar wrote: > Thanks for reviewing this section. Some comments. > > Figure 4.1-1 is not consistent with 4.1-2. We should use consistently > “5GMS” instead of “Media” in 4.1-1 > &.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=20002) |
| zhuoyuzhang(张卓筠) |  | 2020-05-25 (Mon)  14:02:57 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Hi Richard, Thorsten, Thanks for your comments. I can make a revision to add this correction, if it is agreeable. I will upload the revision later :) BR, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=23083) |
| zhuoyuzhang(张卓筠) |  | 2020-05-25 (Mon)  15:06:55 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Hi Richard, Thorsten, and all, As you suggested, the revised contribution to further correct the Figure 4.1-1 and the term Media AF and Media AS below the figure. It is uploaded to the inbox drafts. Please see: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/Draft-S4-200809%20R1.docx) Thanks, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=27765) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  16:28:29 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Many thanks, Zhuoyun. The replacement figure looks great. On 25/05/2020 14:06, zhuoyuzhang(张卓筠) wrote: > As you suggested, the revised contribution to further correctthe > Figure 4.1-1 and the term Media AF and Media AS below the figure. Itis > uploaded to the inbox drafts. Please see: > > [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/Draft-S4-200809%20R1.docx) > > \*From:\*3GPP\_TSG\_SA\_WG4\_MBS \*On Behalf Of \*zhuoyuzhang(张卓筠) > \*Sent:\* Monday, .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=32417) |
| zhuoyuzhang(张卓筠) |  | 2020-05-25 (Mon)  18:23:59 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Thanks Richard and Thorsten for checking the revisions. I provided R2 to further correct the term “Media AF/AS” in the text. :) Please see: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/Draft-S4-200809%20R2.docx) BR, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=41764) |
| Imed Bouazizi | QUALCOMM | 2020-05-26 (Tue)  06:13:13 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Dear Zhuoyun, I am wondering why the restriction to communicate only with PCF was removed? Do we have anything that uses something else other than PCF N5 and NEF N33? If yes, what support do we have for that in 23.501? If the answer is no, I would prefer that we keep that restriction... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=44611) |
| zhuoyuzhang(张卓筠) |  | 2020-05-26 (Tue)  06:50:04 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement(Internet mail) | Dear Imed, Thanks for checking :). As you said, we also have the connection with NEF via N33 in our spec, not only the PCF N5, however, the original text restrict that only the interaction with PCF are considered in R16 in 5GMS spec. It reads to me that the NEF N33 is not included in R16. So I don’t think we need to make this restriction and remove the sentence. The intention here is to include NEF N33 in .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=45967) |
| D'Acunto, L. (Lucia) | TNO | 2020-05-26 (Tue)  13:58:32 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement(Internet mail) | Hello, Thanks for this work, please see my comments below. There is still mention of “Media AF” throughout the document, for example on page 4: “Functions in external DNs, i.e. Media AFs in the external DNs, may only communicate with 5G Core functions via the NEF using N33.” The 5GMSd defined on page 7 (and 5GMSu on page 12): is it external or internal?.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=62059) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  14:27:33 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement(Internet mail) | All, It seems to me we’re close to an agreeable revision but more time is needed. Let’s check status during the telco. Best regards, /Frédéric Ps: please remove any such additions like “Re: [DKIM ERROR]” to subjects... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=67228) |
| zhuoyuzhang(张卓筠) |  | 2020-05-26 (Tue)  18:53:55 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Thanks Chairman. According to the discussion during the call, I made an update to the two notes related with NEF. Thanks for your review and checking. :) Please see 809r3 in: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/Draft-S4-200809%20R3.docx) BR, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=85089) |
| Richard Bradbury | RD | 2020-05-26 (Tue)  19:40:08 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Zhuoyun – Grammar police: "interact with" rather than "interact towards" in the two revised notes. (Pesky prepositions!) Otherwise fine :-) On 26/05/2020 17:53, zhuoyuzhang(张卓筠) wrote: > According to the discussion during the call, I made an update to the > two notes related with NEF. Thanks for your review and checking. :) > > Please see 809r3 in: > > [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/Draft-S4-200809%20R3.docx) &.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=87002) |
| zhuoyuzhang(张卓筠) |  | 2020-05-27 (Wed)  04:28:20 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Hi Richard, and all, Thanks for checking.😊 I made the correction to the notes based on the suggestion from Richard. Please see 809r4: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/Draft-S4-200809%20R4.docx) BR, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=89129) |
| zhuoyuzhang(张卓筠) |  | 2020-05-27 (Wed)  06:09:58 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Hi Lucia, Thanks for your comments and checking. I’m sorry that I missed your email yesterday. The new version 809r4 is uploaded and the term “Media AF” is corrected. Is your second question related with certain specific interface? Hope it was solved during our telco yesterday. :) Thanks, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=89984) |
| Richard Bradbury | RD | 2020-05-27 (Wed)  11:03:43 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Great. Thanks. Looks good. On 27/05/2020 03:28, zhuoyuzhang(张卓筠) wrote: > Thanks for checking.😊I made the correction to the notes based on the > suggestion from Richard. > > Please see 809r4: > > [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/Draft-S4-200809%20R4.docx) > > \*From:\*3GPP\_TSG\_SA\_WG4\_MBS <.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=94773) |
| D'Acunto, L. (Lucia) | TNO | 2020-05-27 (Wed)  11:12:00 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Thanks for the revision, Zhuoyun! One last comment about the two Notes you changed. Note 5 on page 6 ends with “5GMS specifications”, while Note 4 on page 11 ends with “5GMSu specifications”. I think the latter is a typo (5GMS rather than 5GMSu). Would you mind correcting that one too, please? Thanks Lucia.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=95937) |
| zhuoyuzhang(张卓筠) |  | 2020-05-27 (Wed)  11:44:34 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Hi Lucia, Richard, and all, Thanks for checking and review. I made the correction of Note 4 on page 11 to change “5GMSu specifications” to “5GMS specifications” as suggested by Lucia. :) Please see 809r5 : [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/Draft-S4-200809%20R5.docx) Thanks, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=99995) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  06:39:13 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Dear Zhuoyun, During our MB SWG telco 809 was revised to 864. Will you make 864 available ? Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=132774) |

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| zhuoyuzhang(张卓筠) |  | 2020-05-28 (Thu)  06:48:49 DE | [8.6; 809; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Architecture - for agreement | Hi Frédéric, Thanks for reminding me. I just uploaded 864 to the inbox. :) BR, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=137065) |

**Presenter: Zhouyun Zhang (Tencent)**

**Discussion:**

* Imed: clause 4.3.1 note 4: restriction was there for a reason, doesnt want to remove it
* Zhouyun: maybe add clarification that we only focus on QoS related API
* Richard: “you can interact with NEF but only with the purpose of contacting the PCF”
* Zhouyun: will rephrase to mention that only API with NEF for PCF are considered
* Thorsten agrees
* Paul: wonders were the restriction came from. Thorsten - it just reflects current facts.
* Lucia - inside or outside the 5GMS system? Will this impact the definitions?
* Thorsten - noting the functions in the 5G System, internal are in, external apparently not, so there is an inconsistency. Also in fig 4.3.1-2 we lose the option of AF and AS being external.
* Lucia - do we mean 5GS or 5GMS?
* Richard: picture is probably deliberately blurring the boundary. what matters are the yellow boxes, the yellow boxes are always part of 5GMS even if it may be outside 5GS. that’s his view
* Imed: 5GS is something we don’t own and we should not define it here. we can define the 5GMS system. the definition given by Richard seems reasonable
* Paul/Fred: make DN box white. Label “DN” is ok as generalisation of trusted or untrusted DN.
* Lucia - try to summaries, to check understanding: 5GMS includes AFs and ASs both trusted or untrusted.
* Thorsten - one 5GMS, there’s only one 5GMS. Might be good to state the difference when components are in the trusted DN vs. in the external DN.
* Richard - special case, maybe just one deployment scenario, when the MNO is the application provider? → indeed there are many different scenarios.
* Lucia - one 5GMS system overall, or one per application provider?
* Thomas - we’re doing too much surgery on stage 2 now. Does not really matter whether it’s in the MNO network or not, just define the interface.
* Richard: the reason is because the term 5GMS system is used throughout the spec but never defined
* Thomas: never used this term. there is the 5G media streaming and interfaces and that’s it. Thomas - do we need a definition for 5GMS system at all?
* Thorsten: one solution is to remove the term altogether. maybe move this problem to offline discussion
* Fred: we defined the 5GMS Architecture: this is an extension of 5GMS and contains the yellow boxes and interfaces
* Thorsten: not possible to replace 5GMS system with 5GMS Architecture. example when we do provisioning, we are provisioning a system not an architecture
* Fred: question is whether the 5GMS system is just the yellow boxes or the yellow boxes plus the 5GS
* Richard: he gave a definition: deployment of yellow boxes (so it is yellow boxes in a particular deployment)
* Fred: can we live with this definition
* Imed: is App Provider part of 5GMS?
* Fred: Richard says yellow boxes only (so: no)
* Thorsten: from this definition i get the impression that there are always AFs and ASs)
* Richard: yes
* Thorsten: make note that the AFs and ASs can belong to MNO and / or App Provider
* Thomas: “a deployment” is wrong
* Fred: can we call it “a set” or “a collection”?

**Decision:**

* revised to 864

**S4-200809** is revised to **S4-200864**.

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| [S4-200864](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200864.zip) | Correction on Media Architecture | Tencent |

**S4-200864** is agreed.

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| [S4-200811](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200811.zip) | Correction on Media Ingest procedure | Tencent |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-25 (Mon)  06:52:07 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 26th May 1400 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=2660) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  10:36:41 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Hello, Some comments on 811. Generally, thanks for reviewing and fixing: \* Figure 5.4-1: The box "External Media Functions" is replaced by "external 5GMSd AS". I suggest to to use "5GMSd Application Provider" instead. BR; Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=7539) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  12:51:16 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Hello. Thanks for this proposed improvement. I had a couple of comments to add: \* The proposed changes to Figure 5.4-1 overlap with those already made in \*S4-200627\* (from SA4#108-e) and subsequently consolidated into draft CR \*S4-200707\* for consideration at this meeting. (It's an unfortunate consequence of having two meetings before the next SA Plenary that the baseline for changes has to be v16.3.1; we didn't have the power to have .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=15416) |
| zhuoyuzhang(张卓筠) |  | 2020-05-25 (Mon)  15:37:47 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Hi Richard, Thorsten, and all, Thanks for your review and comments. I checked S4-200707 provided by Richard, the term alignment is duplicated with 707, so I remove the term alignment change in this contribution and only remain the following changes: 1. Only remain the change in step 3 in the figure. Basically, I added the inaction from 5GMSd AS to 5GMSd AF in step 3 in the figure. (There was only the inaction from 5GMSd AF to 5GMSd AS .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=28693) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  17:05:55 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Thanks, Zhouyun. I had to look hard at the diagram to spot the difference, so thanks for pointing it out :-) I'm afraid I still don't understand the second sentence you want to add to step 3, /viz:/ "Upon successful configuration, the 5GMSd AS(s) will also include the Content Hosting Configuration identifier, for the push mode within the response message.".. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=34291) |
| zhuoyuzhang(张卓筠) |  | 2020-05-25 (Mon)  18:16:07 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Hi Richard, Thanks for your comments. Actually the identifier here is the “Ingest and Distribution configuration ID”. This term is changed to “Content Hosting Configuration identifier” in 707. Please also correct me if I misunderstand it. According to my understanding, if the 5GMSd AS receives the Content Hosting Configuration from 5GMSd AF, it will send back the Content Hosting Configuration identifier to the 5GMSd AF when successfully configured. Since we don’t have clear definition of Content Hosting Configuration identifier, .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=40784) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  18:54:06 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Zhuoyun – It's good that you have raised this. You have revealed that something isn't quite right here with the existing stage 2 procedure. We probably need input from \*Imed\* (or others) on this, because interface M2d isn't specified yet in TS 26.512. But my understanding of the stage 3 discussions to date is that push-based ingest will be based in Release 16 on the DASH-IF Ingest specification. To push content into a 5GMSd AS, .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=42602) |
| Imed Bouazizi | QUALCOMM | 2020-05-26 (Tue)  06:41:39 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Hello All, I believe the intention is to leave the entry point to after provisioning the AS(s). However, that is not necessary as the entry point can have an FQDN that resolves to the actual AS after AS provisioning, during which DNS configuration is performed. Note that in stage 3, we have a state for the Configuration. After step 2, the Configuration is in Development state and is not usable. I believe the change is not necessary as nothing .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=45199) |
| zhuoyuzhang(张卓筠) |  | 2020-05-26 (Tue)  08:20:34 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Hi Imed, Thanks for your comments. :) Do you mean that “Ingest and Distribution configuration ID” is used as an entry point after provisioning the AS for M4 interface? However, it’s still not quite clear to me about the “Ingest and Distribution configuration ID” in the following text in step 2. We may need some clarification. “Upon successful configuration, the 5GMSd AF will respond with the Ingest and Distribution configuration ID, and the location of the 5GMSd AS to which .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=48079) |
| Richard Bradbury | RD | 2020-05-26 (Tue)  12:59:57 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Ah... That makes sense to me now. I tend to agree with Imed that this change is probably not needed therefore. With that explanation in mind, however, I have to question the point of step 4. What does that add to the procedure? What is its manifestation in stage 3? On 26/05/2020 05:41, Imed Bouazizi wrote: > I believe the intention is to leave the entry point to after > provisioning the AS(s). However, that is .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=56930) |
| Thorsten Lohmar | ERICSSON | 2020-05-26 (Tue)  13:23:40 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Hello, There is now an inconsistency between the figure and the text. The figure contains lots of “Media AF” and “Media AS”. Also in Step 3, it should be “Provisioning 5GMSd AS(s)”. BR; Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=58585) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  14:48:08 DE | [8.6; 811; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | All, Let’s check status during our telco today. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=68112) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  16:39:05 DE | [8.6; 811; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Dear colleagues, There was no time to check status of 811 during the call. Let me extend the deadline to 27MAY 1800 CEST. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=75978) |
| zhuoyuzhang(张卓筠) |  | 2020-05-26 (Tue)  17:36:06 DE | [8.6; 811; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Thanks Chairman :) @Thorsten, and all, I provide r3 to further correct “Media AF” and “Media AS” and the name of step 3 in the figure. In step 4, the added part is actually moved from step 2. Basically, the 5GMSd AF responses to the 5GMSd Application Provider the “Content Hosting Configuration identifier” and the location of the 5GMSd AS. I’m not sure whether there are other parameters which could also be included in step 4... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=83431) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  06:40:44 DE | [8.6; 811; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Hi Zhuoyun, all, Let’s check the status again during our upcoming telco. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=133534) |
| zhuoyuzhang(张卓筠) |  | 2020-05-29 (Fri) 05:45:25 DE | [8.6; 811; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Media Ingest procedure - for agreement | Dear all, S4-200875 (revision of S4-200811) is uploaded to the inbox. Thanks for your comments and suggestions.:) BR, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=5812" \t "_blank) |

**Presenter: Zhouyun Zhang (Tencent)**

**Discussion:**

* Review Rev 3 of 811 taken from Drafts
* Thorsten - content provider needs a URL to post content to.
* Imed - we have the entry point for push. For pull the app provider provides the URL.
* Richard - agrees with Imed. Figure fine, but email discussion was helpful. Step 2 config goes in on M1d, and a modified config is returned. the config hosting id does not really exist.
* Imed - this was the ingest config earlier.
* Richard - what is step 4 for? Synchronous update?
* Zhouyun - id assigned by AF and sent back to app provider.
* Imed - as stated in email - resource is there and in step 3 we add the state. When state is READY, all the info can be read by the app provider. Before then it’s in preparation or similar, not usable yet.
* Richard - so the text is ok as is?
* Fred - reminds that this doc is to help us specify stage 3. So, ok for that purpose? Richard - yes. Imed - text confusing. Fred - so add sentence to step 3 and modify the figure.
* Thorsten - what is used to id the media push? Richard - could be supplied in step 2 or step 4.
* Fred - so how to revise this to conclude?

**Decision:**

* Revise 811 to 875.

**S4-200811** is revised to **S4-200875**.

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| [S4-200875](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200811.zip) | Correction on Media Ingest procedure | Tencent |

**S4-200875 is** agreed.

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| [S4-200812](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200812.zip) | Correction on Metrics collection and reporting | Tencent |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-25 (Mon)  06:54:24 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 26th May 1400 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=3308) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  10:31:03 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hello, Here are some comments (likely more editorial). \* Figure 5.5.3-1 was updated. The box "Media OAM" was replayed by a "Media OAM / 5GMSd AF". Comment: I don't think, that we should add a 5GMSd AF into this box. Media replace "Media OAM" with "5GMSd OAM", but please not add the "5GMSd AF" function. \* In the text below figure 5.5.3-1, please remove the new &.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=6568) |
| Gunnar Heikkilä | ERICSSON | 2020-05-25 (Mon)  10:45:28 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi Cedric, all, \* I have the same questions as Thorsten regarding S-NSSAI, but acknowledge that slicing stuff is not my area of expertise... \* Regarding the Reporting Area I see no reason to list that as a parameter. For the out-of-band option the RAN handles this totally hidden from the UE, and for the in-band option the current assumption in 5GMSA is that no such area restriction will be used. So only the percentage can be used .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=10139) |
| zhuoyuzhang(张卓筠) |  | 2020-05-25 (Mon)  11:50:56 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi Thorsten, Gunnar, and all, Thanks for your review and comments.:) 1. Regarding to the S-NSSAI, according to my understanding, it is introduced in 5GS and used together with DNN for UE to establish the PDU session. So for the metrics collection in our spec, we only use DNN to identity the session, the S-NSSAI information is missing to me. So when the metrics is reporting, the session needs to be associated with DNN and S-NSSAI. 2. .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=11949) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  12:08:04 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi Zhuoyun, Thanks for feedback and explanation. See inline. BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=13158) |
| Gunnar Heikkilä | ERICSSON | 2020-05-25 (Mon)  12:43:19 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Some comments inline from my side as well. /Gunnar.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=14194) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  13:57:37 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hello, One comment (in blue) BR, /Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=21810) |
| zhuoyuzhang(张卓筠) |  | 2020-05-25 (Mon)  17:36:15 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi Thorsten, Gunnar, and all, Thanks for providing your comments and valuable suggestions. Please find my reply inline. I will provide the revisions based on our discussions. :) Thanks, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=37543) |
| zhuoyuzhang(张卓筠) |  | 2020-05-26 (Tue)  09:58:59 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi all, Thanks for your comments and suggestions. I uploaded r1 based on the discussion. We may need some further discussion on whether reporting area is needed and whether 5GMSd AF can be included in in-band option. Please see: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/Draft-S4-200812r1.docx) Thanks, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=49840) |
| Cedric THIENOT | ENENSYS | 2020-05-26 (Tue)  10:24:27 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi Zhuoyun , I am wondering if we should harmonise the location parameter(s) with the parameters location/location type as defined in 5.6.2.2 Would it make sense? Cedric Le mar. 26 mai 2020 à 09:59, zhuoyuzhang(张卓筠) <.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=50818) |
| zhuoyuzhang(张卓筠) |  | 2020-05-26 (Tue)  10:52:29 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi Cedric, and all, Thanks for your good suggestion. It could be a possible way. I’m also open to this option. 😊 For the reporting area, I think it would be easier to be supported if the location filter is defined in the cell list, or TAI. Could we simplify the location filter here?.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=52542) |
| Thomas Stockhammer | QUALCOMM | 2020-05-26 (Tue)  11:04:47 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | All, I had not had time to follow all details. However, I really urge that for anything related to stage-2 and TS26.501- PLEASE ONLY DO OBVIOUS BUG FIXES!!! Thomas.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=53148) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  14:50:34 DE | [8.6; 812; 26MAY 1400 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | All, Let’s check status during our telco today. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=69805) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  16:42:05 DE | [8.6; 812; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Dear colleagues, There was no time to check status of 812 during the call. Let me extend the deadline to 27MAY 1800 CEST. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=76736) |
| Cedric THIENOT | ENENSYS | 2020-05-26 (Tue)  17:16:53 DE | [8.6; 812; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Dear Zhuoyun , I am not sure to understand what your proposal is when you write For the reporting area, I think it would be easier to be supported if the location filter is defined in the cell list, or TAI. Could we simplify the location filter here? Could you clarify? BR Cedric Le mar. 26 mai 2020 à 16:58, Frederic Gabin <.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=82704) |
| zhuoyuzhang(张卓筠) |  | 2020-05-26 (Tue)  18:08:20 DE | [8.6; 812; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Dear Cedric, This is related with some concerns in the previous emails on the client support of the location filters, if the reporting area is introduced. The location filters could be cell lists or GPS-based borders as introduced by Gunnar. I may understand that the GPS-based location may be unavailable to some clients. However, I’m not quite clear why the cell related information is unavailable to the clients. So my view is that if we want to .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=84187) |
| Gunnar Heikkilä | ERICSSON | 2020-05-27 (Wed)  09:32:21 DE | [8.6; 812; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi Zhuoyun, the problem with the location filter for the in-band variant is the following: \* If the service provider knows where each client is located, he can select to only include a metric configuration for those UEs he wants to activate for measurements. For this no location filter is needed. \* If the service provider doesn't know where each client is located, he needs to send the same metric configuration to all UEs in the network. Here a location .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=91994) |
| zhuoyuzhang(张卓筠) |  | 2020-05-27 (Wed)  15:39:32 DE | [8.6; 812; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi Gunnar, and all, Thanks so much for your detailed explanation. It helps me to understand the concerns much better.:) For reporting area for in-band option: As you explained, basically the reporting area for in-band option may need more stage 3 work to design more suitable location filters. If the experts think it’s necessary to support this feature, we may have the following possible way: When the media player requests the metadata from 5GMSd AS in step .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=110614) |
| Gunnar Heikkilä | ERICSSON | 2020-05-27 (Wed)  18:02:25 DE | [8.6; 812; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi Zhuoyun, see inline comments. /Gunnar.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=119922) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  06:42:42 DE | [8.6; 812; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Dear, I don’t see a clear resolution yet. Let’s check the status of 812 during our upcoming telco. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=134412) |

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| Gunnar Heikkilä | ERICSSON | 2020-05-28 (Thu)  08:22:48 DE | [8.6; 812; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Sorry for being silent during the presentation, but I had a doctor's appointment exactly when this Tdoc went up. I did call in by phone, but seems that you could not hear me when I tried to comment... /Gunnar.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=144175) |
| zhuoyuzhang(张卓筠) |  | 2020-05-28 (Thu)  09:13:10 DE | [8.6; 812; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi Gunnar, and all, Thanks for providing your valuable suggestions to me 😊. I provide some reply below. Since the contribution is noted during the telco, maybe we can have more offline discussion on this after the meeting. Thanks for your time and consideration.:) BR, Zhuoyun.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=147443) |
| Gunnar Heikkilä | ERICSSON | 2020-05-28 (Thu)  09:59:37 DE | [8.6; 812; 27MAY 1800 CEST] dCR to TS 26.501 - Correction on Metrics collection and reporting - for agreement | Hi, see inline. /Gunnar.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=154916) |

**Presenter: Zhouyun Zhang (Tencent)**

**Discussion:**

* Take r1 version from Drafts.
* Zhouyun - want to check with group to add this in step 2. Also need more work on Reporting Area (RA) aspect.
* Cedric - make RA compatible with what was done with consumption reporting, if possible. But maybe that is a stage 3 issue.
* Fred - need to improve the definition of geo constraint in stage 2? Thomas - broken? If not then move on. Richard - indeed the details can be sorted out in stage 3.
* Zhouyun - but it’s not clear where the geo constraint comes from, and how RAN gets it.
* Fred - suggest to note this to allow further offline discussion.

**Decision:**

* Noted.

**S4-200812** is noted.

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| [S4-200823](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200823.zip) | Correction to collaboration scenarios (Stage 2) | Ericsson LM |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-25 (Mon)  06:57:32 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 26th May 1400 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=3967) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  13:02:41 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Some quick feedback: \* Incorrect title on cover sheet? \* Good to define the term "5GMS System", but note that this proposed definition conflicts with the one discussed on the MBS reflector and presented at this meeting in \*S4-200707\*. We may need to find some way of reconciling these if that definition doesn't suit your purpose. \* In proposed new §5.10.3, it seems to me that the essential feature of this second SAI acquisition method is the .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=16324) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  13:46:51 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Hi Richard, Thanks for review. Below some feedback. BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=20943) |
| Imed Bouazizi | QUALCOMM | 2020-05-25 (Mon)  15:56:04 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Hello Thorsten, When we agreed on adding the collaboration scenario on Multi-CDN/MNO, we also agreed that this would not have any impact on the normative text. I regard what is described here as some sort of guidelines as the AP may do it in other ways too, in addition to DNS routing and HTTP redirection. Maybe we can put this in an Annex of 26.512... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=29565) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  16:26:42 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Hi Imed, I copied the proposal section from 575 below. The document 575 is agreed according to the minutes from last meeting (in 616). I cannot find any comment to move bullet 3 into 26.512 or similar. Anyway, we should have redirection and resolution procedure in 26.501, since this needs to be understood from e2e perspective. We certainly need to define "302 Redirect" response procedures in 26.512, however, stage 2 should clarify the usage... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=31635) |
| D'Acunto, L. (Lucia) | TNO | 2020-05-25 (Mon)  17:45:11 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Thorsten, Imed, all I tend to agree with Imed on this one. At this point, I would rather put this text in the annex as a suggestion. Handling a multi-MNO scenario is not trivial and should be done carefully. As there are more urgent things to wrap up I suggest to keep your proposal in an annex as a suggestion and look at the problem more thoroughly when we aren't pressed in time... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=38366) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  18:04:05 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Thanks for explaining the rationale behind this, Thorsten. My thinking is that we could keep the definition in clause 3.1 generic (i.e. non-specific about which party operates the AF and AS, just an assemblage of functions for the purpose of downlink/uplink streaming), and then you could narrow it down (to a more "usable" definition, as you call it) in the text of your proposed clause specifically to cover the multi-MNO scenario relevant there... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=39039) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  20:05:42 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Hello, I start wondering about the meaning of the term "agreement" in the minutes. Ericsson contributed different collaboration scenarios during the study phase and we frequently touched on collaboration scenarios. Now, we are pushing one of the most important collaboration case to Rel 17? BR; Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=43618) |
| Imed Bouazizi | QUALCOMM | 2020-05-26 (Tue)  07:45:56 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Thorsten, We're saying put it as guidelines in an Annex. As the problem maybe solved in many different ways, e.g. MPD re-writing, publishing with target domain instead of origin domain, application intelligence, load-balancing and DNS resolution, it is not in our scope to mandate one specific way of solving the problem... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=47431) |
| D'Acunto, L. (Lucia) | TNO | 2020-05-26 (Tue)  11:11:48 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Exactly, that is also what I meant. Best, Lucia.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=53945) |
| Thorsten Lohmar | ERICSSON | 2020-05-26 (Tue)  13:10:06 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Hello, Aha, ok. Yes, we can move it into an annex. Note that SA2 has also some deployment specific procedures in their main spec. Check 23.502. And yes, there can be additional considerations for Multi-CDN offerings, etc. However, I am not sure about the relevance of Telco CDNs... @Lucia and Jan Willem: I saw, that the subject line of KPN / TNO responses are messed up by one or multiple [DKIM ERROR] prefixes. Can you check with your IT .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=57788) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  14:52:43 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Thorsten, I assume you will need a revision. Let's allocate that during the telco. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=70646) |
| Thorsten Lohmar | ERICSSON | 2020-05-27 (Wed)  11:29:33 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Hello Frederic all, I have just uploaded 865. BR; Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=97530) |
| Richard Bradbury | RD | 2020-05-27 (Wed)  15:46:42 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Quick feedback: \* Maybe the first change (to clause 3) can be dropped altogether now from this dCR? \* Is the new Annex B intended to be informative? I see no mandatory statements in the proposed text. \* In B.1: "When the 5GMSd Application Provider uses 5GMS features from different providers, then the 5GMSd Client needs find the service access information of the 5GMS feature provider, which is currently providing connectivity for the 5GMSd Client." o Do you mean something .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=111544) |

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| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  13:56:04 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Hi Richard, all, On the last bullet: Good idea to start from the UE Application side. However, the issue is more about "5GMSd Aware Applications deployed in different 5G Systems" What do you think about "When a 5GMSd-Aware Application is deployed in different 5G Systems the 5GMSd Client needs to acquire Service Access Information that resolves to the 5GMSd AF endpoint address(es) appropriate for the serving 5G System.".. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=169671) |
| Richard Bradbury | RD | 2020-05-28 (Thu)  15:29:21 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | The reason I went for the suggested formulation is because a 5GMSd AF may reside outside the 5G System boundary (i.e. in an external, untrusted DN). In this case it would still be inside the 5GMS System boundary. On 28/05/2020 12:56, Thorsten Lohmar wrote: > On the last bullet: Good idea to start from the UE Application side. > However, the issue is more about “5GMSd Aware Applications deployed > \*in different 5G Systems\*” > > .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=173700) |
| Richard Bradbury | RD | 2020-05-28 (Thu)  15:47:11 DE | [8.6; 823; 26MAY 1400 CEST] dCR to TS 26.501 - Correction to collaboration scenarios - for agreement | Yes, I think you're right: if you narrow down the problem space to 5GMS Systems deployed wholly within a single 5G System, then your proposed wording works. Re-reading the contribution, I see that the sentence immediately following the one in question provides some additional context, so I think that modification will be fine. On 28/05/2020 14:34, Thorsten Lohmar wrote: > I think finding a “5GMSd AF in the external DN” is likely straight > forward, .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=176379) |

**Presenter: Thorsten Lohmar (Ericsson)**

**Discussion:**

* Imed: we do not mandate these 2 options and put them in the annex
* Lucia - also ok if moved to an annex

**Decision:**

* revised according to comments (options in Annex)

**S4-200823** is revised to **S4-200865**.

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| --- | --- | --- |
| [S4-200865](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200865.zip) | Correction to collaboration scenarios (Stage 2) | Ericsson LM |

**Presenter: Thorsten Lohmar (Ericsson)**

**Discussion:**

* Fred - comment from Richard by email taken into account? i.e. clause 3 can be dropped?
* Thorsten - no, but agrees with Richard.
* Richard - also suggested simplification of sentence in B.1.
* Fred - need a revision in any case for these comments. Also need to remove the changes over changes.

**Decision:**

* Revised.

**S4-200865** is revised to **S4-200876**.

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| --- | --- | --- |
| [S4-200876](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200876.zip) | Correction to collaboration scenarios (Stage 2) | Ericsson LM |

**Presenter: Thorsten Lohmar (Ericsson)**

**Discussion:**

* Thorsten - applied comments from Richard by email. 2nd paragraph of B.1 needs to be removed.

**Decision:**

* document is agreed except second paragraph B.1 which is a repetition

**S4-200876** is agreed with above change.

|  |  |  |
| --- | --- | --- |
| [S4-200824](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200824.zip) | Correction of 5GMSd AF-based Network Assistance (Stage 2) | Ericsson LM |

**E-mail Discussion:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Frederic Gabin | ERICSSON | 2020-05-25 (Mon)  06:59:03 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 26th May 1400 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=4617) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  13:13:24 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | Thanks for this. It was like finding an extra present at the bottom of my Christmas stocking :-) Comments: \* The revised figure makes a lot more sense to me after removing the confusing dotted line. \* Something went wrong in the edits to §5.9.2 (look in No Markup mode). The cut-and-shut job fails to say what the NA feature enables the UE to do! Otherwise good to simplify. Perhaps you mean "The Network Assistance (NA) feature enables .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=18127) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  14:39:38 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | Hi Richard, Thanks for review. Please find some feedback below. BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=23842) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  14:44:52 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | Hello, I placed a new draft in the drafts folder. [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/updated%20S4-200824_dCR_correction_5GMSd_AF-based_NA.docx) BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=24670) |
| Kleinrouweler, J.W.M. (Jan Willem) | TNO | 2020-05-25 (Mon)  16:23:02 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | Dear Thorsten, The addition of the NEF and notification services in step 2 make sense. The use of "either" in the updated version is a bit confusing though. The AF interacts with either the PCF or NEF, but it should be able to both request modifications and receive notifications. What do you think about the following suggestion:.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=30963) |
| Thorsten Lohmar | ERICSSON | 2020-05-25 (Mon)  16:41:29 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | Hi Jan Willem, Yes, your suggestions sounds good. I put an update2 ... into the drafts folder. BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=33494) |
| Richard Bradbury | RD | 2020-05-25 (Mon)  17:32:02 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | So the sense is: \* Invoke the procedure on the PCF (or NEF). \* then wait for an asynchronous notification or event telling me if it worked or not. So maybe we need to insert "then using..." at the start of the second new bullet for clarity? Otherwise looks good. On 25/05/2020 15:41, Thorsten Lohmar wrote: > Yes, your suggestions sounds good. > > I put an update2 … into the drafts folder. > > > \*From:\* 3GPP\_TSG\_SA\_WG4\_MBS \*.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=36567) |
| Imed Bouazizi | QUALCOMM | 2020-05-26 (Tue)  06:56:42 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | Hi Richard, All, I don't think that is the intention. The AF subscribes to events related to the QoS flows it is responsible for. Changes can happen any time, e.g. due to congestion or mobility, the GBR may need to be reduced. The PCF informs the subscribing AF about that change. It can use that information to make appropriate bitrate recommendations to the MSH... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=46743) |
| Richard Bradbury | RD | 2020-05-26 (Tue)  12:45:01 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | Ah, OK. In that case, maybe the second of Thorsten's new bullets is really more of a NOTE, e.g. NOTE: The 5GMSd AF receives QoS change notifications asynchronously from the Npcf\_PolicyAuthorization notification service or Nnef Monitoring Event procedure. On 26/05/2020 05:56, Imed Bouazizi wrote: > I don’t think that is the intention. The AF subscribes to events > related to the QoS flows it is responsible for. Changes can happen any > time, e... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=56001) |
| Thorsten Lohmar | ERICSSON | 2020-05-26 (Tue)  13:27:38 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | Hello, Sounds good to add such a note (with the change to replace "QoS" with "policy". --> NOTE: The 5GMSd AF receives policy change notifications asynchronously from the Npcf\_PolicyAuthorization notification service or Nnef Monitoring Event procedure.). [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/updated3%20S4-200824_dCR_correction_5GMSd_AF-based_NA.docx) BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=59415) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  14:55:01 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | All, Let's allocate a revision during our telco. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=72791) |
| Richard Bradbury | RD | 2020-05-26 (Tue)  14:55:17 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | OK, but I think that note should be instead of the second bullet? On 26/05/2020 12:27, Thorsten Lohmar wrote: > Sounds good to add such a note (with the change to replace “QoS” with > “policy”. à NOTE: The 5GMSd AF receives policy change notifications > asynchronously from the Npcf\_PolicyAuthorization notification service > or Nnef Monitoring Event procedure.). > > [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/updated3%20S4-200824_dCR_correction_5GMSd_AF-based_NA.docx) > > \*.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=71668) |
| Thorsten Lohmar | ERICSSON | 2020-05-27 (Wed)  14:18:13 DE | [8.6; 824; 26MAY 1400 CEST] dCR to TS 26.501 - Correction of 5GMSd AF-based Network Assistance - for agreement | Hi Richard, The current text is Between the 5GMSd AF and the PCF or a NEF: - using the Npcf\_PolicyAuthorization procedure or Nnef\_AFSessionWithQoS procedure to request modification of the PDU session with the requested QoS information - the Npcf\_PolicyAuthorization notification service or Nnef Monitoring Event procedure to receive QoS changes. NOTE: The 5GMSd AF receives policy change notifications asynchronously from the Npcf\_PolicyAuthorization notification service or Nnef Monitoring Event procedure. I checked a bit TS 29.514: The 5GMSd AF needs to use .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=108914) |

**S4-200824** is revised to **S4-200866**.

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| --- | --- | --- |
| [S4-200866](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200866.zip) | Correction of 5GMSd AF-based Network Assistance (Stage 2) | Ericsson LM |

**Presenter: Thorsten Lohmar (Ericsson)**

**Discussion:**

* Thorsten - have not included Richard’s comment on step 2 yet. Richard - probably ok, maybe wording can be improved, bullet or note. Thorsten - ok, will merge the note into the text.
* Imed - does not understand the note. Need to get notifications, e.g. PCF might downgrade the session. Now it looks like there are 2 types of notification.
* Jan Willem - be more specific with “the network” - interact with PCF or NEF, don’t need “network, e.g.”
* Fred - ok, check revised version offline.
* Imed - asynchronous notifications. Thorsten - ok, will take into account.

**Decision:**

* Revised.

**S4-200866** is revised to **S4-200877**.

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| [S4-200877](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200877.zip) | Correction of 5GMSd AF-based Network Assistance (Stage 2) | Ericsson LM |

**Presenter: Thorsten Lohmar (Ericsson)**

**Discussion:**

* Richard: add the word “using” in the second bulled of changed text

**Decision:**

* Revised with editorial correction

**S4-200877** is agreed.

### 8.6.2 TEI16

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| [S4-200757](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200757.zip) | Service Announcement API for enTV | Qualcomm Incorporated |

**E-mail Discussion:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Frederic Gabin | ERICSSON | 2020-05-25 (Mon)  07:05:53 DE | [8.6; 757; 26MAY 1400 CEST] dCR to TS 26.347 - Service Announcement API for enTV - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Note that the cover page of that Tdoc wrongly indicates it as a pseudo CR to TR 26.955 when it is a Draft CR to TS 26.347. Confirmation by the author would be welcome... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=5277) |
| Thomas Stockhammer | QUALCOMM | 2020-05-25 (Mon)  07:07:37 DE | [8.6; 757; 26MAY 1400 CEST] dCR to TS 26.347 - Service Announcement API for enTV - for agreement | Dear Mr. MBS Chair, Sorry for the confusion. I confirm that this is a draft CR to TS 26.347. Best regards Thomas.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=5846) |
| Thomas Stockhammer | QUALCOMM | 2020-05-25 (Mon)  10:39:19 DE | [8.6; 757; 26MAY 1400 CEST] dCR to TS 26.347 - Service Announcement API for enTV - for agreement | Dear all, I have uploaded a revised version 858 that fixes the cover page. [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/S4-200858.zip) No changes on the content. Thank you Thomas.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=8430) |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  14:56:24 DE | [8.6; 757; 26MAY 1400 CEST] dCR to TS 26.347 - Service Announcement API for enTV - for agreement | Dear all, 858, revision of 757, is agreed. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=73795) |
| Thomas Stockhammer | QUALCOMM | 2020-05-28 (Thu)  09:12:07 DE | [8.6; 757; 26MAY 1400 CEST] dCR to TS 26.347 - Service Announcement API for enTV - for agreement | Dear experts, The formal CR has been uploaded as [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/S4-200879.zip) Best regards Thomas.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=146598) |

**S4-200757** is revised to **S4-200858**.

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| --- | --- | --- |
| [S4-200858](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200858.zip) | Service Announcement API for enTV | Qualcomm Incorporated |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

**Decision:**

* doc is agreed and CR will be in 879

**S4-200858** is agreed.

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| --- | --- | --- |
| [S4-2008](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200879.zip)79 | Service Announcement API for enTV | Qualcomm Incorporated |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* **Cedric / Thorsten**: the CR is a C category (functional modification of feature)

**Decision:**

* content is agreed and doc is revised 884 to change category and work item. 884 will go to plenary

**S4-200879** is revised to **S4-200884**.

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| --- | --- | --- |
| [S4-200884](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200884.zip) | Service Announcement API for enTV | Qualcomm Incorporated |

**S4-200884** is presented to SA4 plenary.

## 8.7 5GMS3 (5G Media Streaming stage 3)

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| [S4-200727](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200727.zip) | 5G Media Streaming (5GMS); Protocols | Ericsson Japan K.K. |

**E-mail Discussion:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  10:47:57 DE | [8.7; 727; 27MAY 0900] Draft TS 26.512 1.1.0 -> for agreement as basis for further work | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. This version of TS 26.512 has been agreed during an MBS SWG AH telco to be used as baseline for further work. Your comments and questions are welcome. If no comments are received by Tuesday 27th May 0900 CEST the Tdoc will be agreed... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=51907) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  06:45:37 DE | [8.7; 727; 27MAY 0900] Draft TS 26.512 1.1.0 -> for agreement as basis for further work | Dear all, 727 is agreed. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=135178) |

**Presenter:**

**Discussion:**

* **Agreed by email.**

**Decision:**

**S4-200727** is agreed.

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| --- | --- | --- |
| [S4-200745](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200745.zip) | RAN-based Network Assistance | QUALCOMM Europe Inc. - Italy |

**E-mail Discussion:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  16:59:10 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Wednesday 27th May 1800 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=78198) |
| Kleinrouweler, J.W.M. (Jan Willem) | TNO | 2020-05-27 (Wed)  11:35:37 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Dear Charles, Imed, I have some questions about the RAN Signaling-based NA: \* You write that a query cannot exceed the MFBR. Now it makes sense to follow this, it may harm the session, but how does the Media Session Handler know that there is a QoS flow installed? And what MFBR is set for it? This information is not known to the media session handler. \* Do I understand it correctly that in order to receive a Bitrate Recommendation message, .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=99151) |
| Thorsten Lohmar | ERICSSON | 2020-05-27 (Wed)  11:49:30 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Hello Charles and Imed, I am wondering about the sentence "The association between the LCID for which the recommendation applies and the actual flow (including the intermediat RLC channel) is performed by the modem.": Yes, the modem can lookup the actual LCID value. However, how does the 5GMSd Client indicate to the modem, for which stream it desires the ANBR reports? Maybe assume, that the Modem is handling two QoS bearers at the same time, but only one .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=100938) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  06:47:13 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | All, Let's check status of 745 during the upcoming telco. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=136040) |

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| --- | --- | --- | --- | --- | --- |
| Imed Bouazizi | QUALCOMM | 2020-05-28 (Thu)  08:53:52 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Hello Jan-Willem, Thorsten, Apologies for missing this thread completely. My answers inline. Br, Imed.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=145132) |
| Charles Lo |  | 2020-05-28 (Thu)  09:19:29 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | One additional comment from me in relation to a reply from Imed - see inline below under [CL]. Thanks, Charles.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=148475) |
| Cedric THIENOT | ENENSYS | 2020-05-28 (Thu)  09:24:26 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Hi Imed, I would give a better name for the new interface ("UE-internal interface" is very generic). Should we reuse the Stage 2 name? I would also create a subsection which describes this interface with : - requirements for that interface, - example - AT command from CT1 C. Le mar. 26 mai 2020 à 17:00, Frederic Gabin <.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=149262) |
| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  09:46:15 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Hi Imed, See more inline. BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=151706) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  09:51:01 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Dear all, Note that as agred during our telco today, 745 will be revised to 878. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=152825) |
| Imed Bouazizi | QUALCOMM | 2020-05-29 (Fri)  02:02:26 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Hi Thorsten, All, I already added the question to the draft LS to CT1. On the other question, I suggest that we do some further internal research to find out if ANBR really works only for GBR bearers. My understanding is that it is not a requirement. Attached is the revised document 878... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=1611) |
| Imed Bouazizi | QUALCOMM | 2020-05-29 (Fri) 02:02:26 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Hi Thorsten, All, I already added the question to the draft LS to CT1. On the other question, I suggest that we do some further internal research to find out if ANBR really works only for GBR bearers. My understanding is that it is not a requirement. Attached is the revised document 878... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=1611" \t "_blank) |
| Charles Lo |  | 2020-05-29 (Fri) 07:50:05 DE | [8.7; 745; 27MAY 1800 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Hello Thorsten, >> Another comment: there is a need to establish a dedicated bearer (GBR bearer) to use ANBR. I would suggest to refer to the dynamic policy procedure to activate the qos bearer. >[Imed] Not necessarily actually. This can be applied to the default PDU session without any QoS allocation. Maybe we can clarify this by saying, if an MFBR is defined, then it shall not be exceeded. >[TL] You mean that the LCID refers to .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=16025" \t "_blank) |

**Presenter: Imed Bouazizi (Qualcomm)**

**Discussion:**

* Fred: there were questions and comments from Jan Willem and Thorsten

**Decision:**

* document is revised to 878

**S4-200745** is revised to 878.

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| [S4-200878](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/S4-200878.zip) | RAN-based Network Assistance | QUALCOMM Europe Inc. - Italy |

**Presenter: Imed Bouazizi (Qualcomm)**

**Discussion:**

* Cedric: doesnt disagree with content but the way in which new interface is introduced should be changed
* Imed: that is why we have LS to CT1 to ask them to define the interface. not sure we can rename it AT interface
* Cedric: in stage 2 we have a diagram with an interface. shouldn’t we use that?
* Imed: indeed interface is there in stage 2 diagram but has no name. it is ok to adapt text to say this is a new interface. will clarify in Editor’s note that the interface will be defined by CT1
* Thorsten: can you also add that the input parameters are for further study
* Cedric: are we going to have text to explain how the RAN-based signalling works with policy template?
* Imed: we say that it works with the current QoS profile
* Cedric: do i make a different request when i do policy template with respect to RAN-based NA? can we have something that combines these 2 features?
* Imed: in stage 2 we say that you should not combine them but this is probably too restrictive

**Decision:**

* doc is revised in 886. if its ready before 12 CET it will be sent for email agreement.

**S4-200878** is revised to **S4-200886**.

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| [S4-200886](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/S4-200886.zip) | RAN-based Network Assistance | QUALCOMM Europe Inc. - Italy |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 09:36:41 DE | [8.7; 886; 2JUNE 1200 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 2nd June 1200 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e" \t "_blank) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=18711" \t "_blank) |
| Richard Bradbury | RD | 2020-05-29 (Fri) 09:55:37 DE | [8.7; 886; 2JUNE 1200 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Fixed a few editorial nits only: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/S4-200886_ran_based_assistance_rm%20(richardb%202020-05-29).docx" \t "_blank) On 29/05/2020 08:36, Frederic Gabin wrote: > I declare the email agreement process started on the Tdoc indicated in > the subject line. > > Your comments and questions are welcome. If no comments are received > by Tuesday 2^nd June 1200 CEST the Tdoc will be agreed. > > Tdoc .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=22416" \t "_blank) |
| Frederic Gabin | ERICSSON | 2020-06-02 (Tue) 13:19:17 DE | [8.7; 886; 2JUNE 1200 CEST] dCR 26.512 RAN-based Network Assistance - for agreement | Hello, I haven't received any comments beyond editorials. So a revision of this Tdoc will be sent for agreement to the closing plenary. I let the source request a Tdoc number directly to our secretary. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2006A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=7737" \t "_blank) |

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| [S4-200746](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200746.zip) | AF-based Network Assistance | QUALCOMM Europe Inc. - Italy |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  17:01:05 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Wednesday 27th May 1800 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=78834) |
| Richard Bradbury | RD | 2020-05-26 (Tue)  19:26:10 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Good to start filling in the details of this API. I have provided some feedback on this contribution here: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/S4-200746_af_based_assistance%20(richardb%20feedback%202020-05-20).docx) To summarise the points: \* I would prefer to put the AF-based Network Assistance API (and its sibling the RAN-based Network Assistance API) on a par with all the other APIs. Adding an extra level of hierarchy by creating an .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=85978) |
| Imed Bouazizi | QUALCOMM | 2020-05-27 (Wed)  00:08:29 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Thanks a lot Richard for the great comments and the edits. Thanks for placing the correct types from 29.514. My answers inline. Br, Imed.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=88140) |
| Thorsten Lohmar | ERICSSON | 2020-05-27 (Wed)  09:23:58 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Hi Imed, Thanks for your contribution. As discussed on phone: I don’t understand this “operation point” concept. It is not in 26.501 and it does not become clear from this document. Further: \* “Sub‑resource path”: Would be good to follow the 29.501 terminology and call this “{apiSpecificResourceUriPart}”. The general URL format from 29.501 is ”. Of course, this comment is applicable to other contributions as well. \* It is not clear, how these M1d provisioning parameters are mapped .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=90952) |
| Thorsten Lohmar | ERICSSON | 2020-05-27 (Wed)  09:33:07 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Hello, Another comment: \* We should use camel-cased path element names like naSubresource (instead of na-subresource). Intention is aligne with CT3 naming convention. BR; Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=92914) |
| Kleinrouweler, J.W.M. (Jan Willem) | TNO | 2020-05-27 (Wed)  15:49:41 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Hi Imed, all, Thank for the contribution. My main concern is that I also cannot grasp the ‘operation points’ concept, with the operation point itself not being defined making this difficult. Besides the edit from Richard including an identifier, I expect an operation point be more than that.. Some other comments/questions: \* As I understand it, the ‘applicationContext’ is provided by the AF and read-only for the media session handler. What is the point of providing this information? What .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=112480) |
| Imed Bouazizi | QUALCOMM | 2020-05-27 (Wed)  15:59:52 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Hello Thorsten, Operation point is used in TS 26.501. Please do a search. I can explain the meaning again: it is the QoS requirements at which an application providers offers its service. For a streaming session, it will be contain the aggregate average bitrate (including audio and video components,) the maximum bitrate, any latency requirements, … It is important to understand that the AP may offer its content at different operation points, e.g. 1 HD operation point, 1 4K .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=114767) |
| Imed Bouazizi | QUALCOMM | 2020-05-27 (Wed)  16:03:02 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Not sure about that. The Npcf\_PolicyAuthorization API for example is call “npcf-policyauthorizaiton”. I don’t think the camel casing applies to the api names. These are usually case insensitive. Br, Imed.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=115658) |
| Imed Bouazizi | QUALCOMM | 2020-05-27 (Wed)  18:51:15 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Hi Jan-Willem, I didn’t hear you in the offline call today, where we discussed this. We will have another offline on this topic tomorrow morning and I hope you can join. My comments inline. Br, Imed.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=122300) |

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  06:49:35 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Hello, Let’s check status during the upcoming call today but more offline time will be required here. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=137879) |
| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  09:40:14 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Hi Imed, I was referring to the dynamic path elements. The Snippet below is from Npcf\_PolicyAuthorization API. The dynamic path element here “appSessionId” is camel cased. BR, Thorsten [cid:.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=150886) |
| Imed Bouazizi | QUALCOMM | 2020-05-28 (Thu)  16:01:00 DE | [8.7; 746; 27MAY 1800 CEST] dCR 26.512 AF-based Network Assistance - for agreement | Yes, that I agree... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=180372) |

**Presenter: Imed Bouazizi (Qualcomm)**

**Discussion:**

* Imed: lets prioritize provisioning (M1) once this is done we can move on to specify the M5 counterpart, which should be straightforward if we do M1 right
* Thomas: it would be good if there is a 1-page “way forward” document that describes exactly the progress
* Fred: are we pushing this further?
* Thorsten: we have started with M1 and ambition is to get something agreed at this meeting that can be baseline for further work

**Decision:**

* Agreed to have a way forward document.

**S4-200746** is noted.

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| [S4-200751](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200751.zip) | Policy Template Provisioning | QUALCOMM Europe Inc. - Italy |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:30:18 DE | [8.7; 751; 29MAY 0500 CEST] pCR TS 26.512 Dynamic Policy Configuration Procedures -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Friday 29th May 0500 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=159367) |
| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  10:51:50 DE | [8.7; 751; 29MAY 0500 CEST] pCR TS 26.512 Dynamic Policy Configuration Procedures -> for agreement | Hello Frederic, all, We started discussing documents 751 (and 821) to some extend yesterday during a first offline and will be continued this afternoon (CEST). So, when there is no discussion on the email reflector, this is not an indication of agreement. I suggest to check the status of 751 and 821 tomorrow during the telco... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=163951) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:55:47 DE | [8.7; 751; 29MAY 0500 CEST] pCR TS 26.512 Dynamic Policy Configuration Procedures -> for agreement | Thorsten, Understood. Please update the group on the status using this thread once the offline discussions have ended today. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=164597) |
| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  18:21:36 DE | [8.7; 751; 29MAY 0500 CEST] pCR TS 26.512 Dynamic Policy Configuration Procedures -> for agreement | Hi Frederic, all, We made good progress on the M1d side for Policy Template provisioning (i.e. tdoc 751 and 821). We can present / discuss the outcome tomorrow during the telco. We are converging and the ambition is to create an agreeable pCR on 26.512 for this meeting, putting the frame in place. We expect that the stage 3 for M5d will become much simpler, once the stage 3 for M1d is in place... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=183259) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri)  01:28:49 DE | [8.7; 751; 29MAY 0500 CEST] pCR TS 26.512 Dynamic Policy Configuration Procedures -> for agreement | Thorsten, If the goal is to have an email agreement process, the final revision deadline is Friday 29th May 1200 CEST. Otherwise we can always make revised Tdocs available later for consideration at one of the closing plenary. I'd like to minimize the number of such documents as their review time is short and closing plenary telcos are also very short... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=71) |

**Presenter: Imed Bouazizi (Qualcomm)**

**Discussion:**

* **Thomas**: what will the way forward doc contain? then this work should have a higher priority over other activities
* Fred document called “way forward on 5GMS3 policy and NA procedures”

**Decision:**

* to be merged with 821 and way forward document receives Tdoc number 888

**S4-200751** is merged with **S4-200821** in **S4-200887** which will go to plenary.

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| [S4-200887](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200887.zip) | M1d Procedure for Dynamic Policy Provisioning (Stage 3) | Qualcomm Inc., Ericsson LM, BBC |

**S4-200887** is presented to SA4 plenary.

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| [S4-200888](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200888.zip) | Way forward on TS 26.512 policy and NA procedures | Ericsson, Qualcomm, BBC, KPN |

**S4-200888** is presented to SA4 plenary.

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| [S4-200752](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200752.zip) | 5GMSu extension for discovery of application functions | Tencent |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:36:22 DE | [8.7; 752; 29MAY 0500 CEST] proposal for TS 26.512 5GMSu extension for discovery of application functions -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Friday 29th May 0500 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=160677) |
| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  10:56:13 DE | [8.7; 752; 29MAY 0500 CEST] proposal for TS 26.512 5GMSu extension for discovery of application functions -> for agreement | Hello Iraj, I don't think, that we should add a separate "discovery server" into the architecture. When this discovery sever is proprietary, then it is an M8u procedure. When discovery is a function of 5GMS, then a discovery function is part of a 5GMSu AF. I would prefer the latter. I would also propose to define something similar to the "service access information" for uplink, i.e. a client can acquire the 5GMSu AF and .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=165674) |
| Iraj Sodagar | LIVE | 2020-05-28 (Thu)  18:12:01 DE | [8.7; 752; 29MAY 0500 CEST] proposal for TS 26.512 5GMSu extension for discovery of application functions -> for agreement | Hi Thorsten, Please see my technical comments and question inline. I suppose we also should ask the basic question first: Does anybody care about solving the identified discovery issue in R16, or should it be left for R17? If people do not care, let's just note the document, and don't spend more time on it at this meeting... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=182606) |

**Presenter: Iraj Sodagar (Tencent)**

**Discussion:**

* Iraj: if there is no interest to pursue discovery issue that is fine

**Decision:**

* Noted

**S4-200752** is noted.

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| [S4-200753](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200753.zip) | 5GMS3 work plan V0.13 | Sony Corporation |

**S4-200753** is presented to SA4 plenary.

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| [S4-200754](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200754.zip) | 5GMS3 Exception sheet | Sony Corporation |

**S4-200754** is presented to SA4 plenary.

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| [S4-200755](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200755.zip) | Network Assistance background | Sony Corporation, Ericsson LM |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  17:03:07 DE | [8.7; 755; 27MAY 1800 CEST] 5GMS Network Assistance background - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Wednesday 27th May 1800 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=79469) |
| Imed Bouazizi | QUALCOMM | 2020-05-27 (Wed)  20:26:20 DE | [8.7; 755; 27MAY 1800 CEST] 5GMS Network Assistance background - for agreement | Dear Paul, Thanks a lot for this contribution as it helps clarify the background for newcomers. I am a bit aware about the background as I also worked on SAND in MPEG and a bit also in 3GPP. However, mapping the required media functionality on 5GMS is a different thing. We cannot rely on SAND for this purpose. Network assistance should be generic and should work for both downlink and uplink, DASH and non-DASH. It needs to also take .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=127223) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  06:51:50 DE | [8.7; 755; 27MAY 1800 CEST] 5GMS Network Assistance background - for agreement | Dear all, Actually, 755 was provided for information. I propose it is noted. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=138793) |

**Presenter: Paul Szucs (Sony Corporation)**

**Discussion:**

* No formal presentation needed, it was for info.
* Paul will follow up offline to Imed’s message.

**Decision:**

* Noted.

**S4-200755** is noted.

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| [S4-200758](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200758.zip) | Client APIs for 5GMS | Qualcomm Incorporated |

**S4-200758** is not treated as submitted late.

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| [S4-200759](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200759.zip) | DASH/CMAF in 5GMS | Qualcomm Incorporated |

**S4-200759** is not treated as submitted late.

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| [S4-200760](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200760.zip) | Video Codec Support for Downlink Streaming | Qualcomm Incorporated |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:00:34 DE | [8.7; 760; 29MAY 0500 CEST] pCR TS 26.511 Video Codec Support for Downlink Streaming -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. This pCR implements the Working Assumption agreed at the MBS SWG AH Telco 5th May. Unless a challenge to this WA is agreed (e.g. the one in 867) this Working Assumption will be confirmed... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=155906) |

**Presenter:**

**Discussion:**

* Gilles: understood that doc implements the working assumption agreed in the telcos. 867 is built on top of 760.
* Gilles HDR capability needs to be defined because it is unclear
* GIlles: 26.511 is not part of exception sheet so should be closed at this meeting
* Fred: an agreed working assumption can still be challenged
* Thomas: 760 is progressing the work of implementing agreement
* Kiho: one thing missing is the 10 bit, can it be added?
* Thomas: ok but should be correctly added, associated with signal not device capability
* James: aligned with Orange
* Gilles: agreement is dependent on how much time we have to finalize 26.511.
* Fred: we will request an extension of 3 months in the exception sheet. scope of exception sheet not yet agreed.
* Gilles: if exception sheet includes 26.511 then agreement on 760
* Fred: everybody agrees?
* Thomas: we need to clarify what is the work to be done in the exception sheet. just mentioning 26.511 is not enough. Thomas cannot agree to exception sheet blindly, first needs to see it.

**Decision:**

* agreement on 760 provided that exception sheet includes 26.511. wording on exception sheet needs to be worked out with rapporteur.

**S4-200760** is agreed.

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| [S4-200761](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200761.zip) | Proposed General Updates | Qualcomm Incorporated |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:11:39 DE | [8.7; 761; 29MAY 0500 CEST] pCR TS 26.511 Proposed General Updates -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Friday 29th May 0500 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=158106) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 05:49:25 DE | [8.7; 761; 29MAY 0500 CEST] pCR TS 26.511 Proposed General Updates -> for agreement | I haven't seen any comments so 761 is agreed... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=7442" \t "_blank) |

**Decision:**

* Agreed through e-mail

**S4-200761** is agreed.

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| [S4-200805](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200805.zip) | Consumption reporting in M7d interface | ENENSYS |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  17:08:49 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Wednesday 27th May 1800 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=80751) |
| Richard Bradbury | RD | 2020-05-27 (Wed)  12:31:20 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Some quick suggestions: \* Missing full stop after first sentence. \* In paragraphs 2 and 3 there are conditional mandatory statements: "...whether Consumption reporting for this session shall be reported" and "If the consumption Reporting for this session shall be reported...". o I don't think that the ETSI modal verbs are intended to be used in that manner. o Suggest something more like "...whether consumption reporting is required for the session" in paragraph 2, o .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=106034) |
| Cedric THIENOT | ENENSYS | 2020-05-27 (Wed)  15:36:17 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Hi Richard, +Thomas I agree with your 2 comments. For the last one: the Media Session Handler may shall regularly request from the Media Player the current quality for video, audio . I am not completely sure what the perfect wording is. I have written "may" as I don't know exactly how M7d API will be designed... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=109978) |
| Thomas Stockhammer | QUALCOMM | 2020-05-27 (Wed)  15:51:55 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | All, I agree that this aspect required some details thinking. I believe we need to do this more on a “stage-2” level now. I tried to do this in 759, but as said, this is late, so it cannot be discussed during this meeting. My suggestion would be that we add this in brackets for now with an editor’s note that this needs to be completed once the communication model between Media Player and Media Session Handler is .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=113400) |
| Richard Bradbury | RD | 2020-05-27 (Wed)  15:58:41 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Cédric – Thanks. I suppose the key point is that if consumption reporting is required for a given UE, it is mandatory for that UE to submit consumption reports. How the UE satisfies the requirement (synchronous call or asynchronous callback) is a level of detail beyond this introductory clause that would be elaborated in a later clause... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=114145) |
| Cedric THIENOT | ENENSYS | 2020-05-27 (Wed)  17:56:25 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Hi Thomas, Perfect, I will add the bracket. and let's work offline on these APIs. Cedric Le mer. 27 mai 2020 à 15:51, Thomas Stockhammer <.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=118092) |
| Cedric THIENOT | ENENSYS | 2020-05-27 (Wed)  17:57:01 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Hi Richard, Perfect, I will use it C. Le mer. 27 mai 2020 à 15:58, Richard Bradbury <.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=118987) |
| Cedric THIENOT | ENENSYS | 2020-05-27 (Wed)  19:06:16 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Hi all, I have uploaded an updated version in the draft folder ( update-S4-200805.docx [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_108-e/Inbox/Drafts/update%20S4-200805.docx) ) Cedric Le mer. 27 mai 2020 à 17:57, Cedric THIENOT <.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=124064) |
| Richard Bradbury | RD | 2020-05-27 (Wed)  19:28:09 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Tiny corrections here: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/update%20S4-200805%20(richardb%20edits).docx) With the subtle rewording we did earlier, you probably don't need the square brackets now. On 27/05/2020 18:06, Cedric THIENOT wrote: > I have uploaded an updated version in the draft folder > (update-S4-200805.docx > [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_108-e/Inbox/Drafts/update%20S4-200805.docx) ) &.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=126090) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  07:02:10 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | All, 805 will be revised to 874 for consideration during the upcoming telco. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=142429) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 09:38:40 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Cédric, 874 is revised to 920. Let me know when it’s available. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=19340" \t "_blank) |
| Cedric THIENOT | ENENSYS | 2020-05-29 (Fri) 10:11:18 DE | [8.7; 805; 27MAY 1800 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Dear Fred, I have uploaded 920. Best Regards. Cedric Le ven. 29 mai 2020 à 09:38, Frederic Gabin <.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=23248" \t "_blank) |

**Presenter: Cedric Thienot (ENENSYS)**

**Discussion:**

* On email discussion Cedric agreed to revise this.

**Decision:**

* Revised to 874.

**S4-200805** is revised to **S4-200874.**

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| [S4-200874](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200874.zip) | Consumption reporting in M7d interface | ENENSYS |

**Presenter: Cedric Thienot (ENENSYS)**

**Discussion:**

* Fred - why is highlighted text in brackets?.
* Fred: not understand the proposal
* Richard: first sentence that is highlighted is not specific, so maybe it is good enough
* Cedric: add some references in the section

**Decision:**

* document will be revised and tdoc number provided later

**S4-200874** is revised to **S4-200920.**

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| [S4-200920](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200920.zip) | Consumption reporting in M7d interface | ENENSYS |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 11:49:14 DE | [8.7; 920; 2JUNE 1200 CEST] dCR 26.512 Consumption reporting in M7d interface - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 2nd June 1200 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e" \t "_blank) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=25067" \t "_blank) |

**Decision:**

* no comments received on e-mail discussion

**S4-200920** is agreed.

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| [S4-200810](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200810.zip) | Draft LS to CT1 on AT Command Support for Bit Rate Recommendation | QUALCOMM Europe Inc. - Italy |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  17:05:02 DE | [8.7; 810; 27MAY 1800 CEST] Draft LS on AT Commands for Bit Rate Recommendation - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Wednesday 27th May 1800 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=81397) |
| Thorsten Lohmar | ERICSSON | 2020-05-27 (Wed)  11:54:08 DE | [8.7; 810; 27MAY 1800 CEST] Draft LS on AT Commands for Bit Rate Recommendation - for agreement | Hello, This LS is only targeting CT1. Shouldn't we also include SA2 into this exchange? Further, it would be good to give CT1 some hints around the expectation on such a command, e.g. allow for periodic or spontaneous notifications and also boost request inputs. BR, /Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=102488) |

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| Imed Bouazizi | QUALCOMM | 2020-05-28 (Thu)  07:09:00 DE | [8.7; 810; 27MAY 1800 CEST] Draft LS on AT Commands for Bit Rate Recommendation - for agreement | Hello Thorsten, All, I don't see an action to SA2 but it is good to keep them in the loop. Let's put them in CC. A revision is attached to address the other point as well. Br, Imed.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=143378) |
| Charles Lo |  | 2020-05-28 (Thu)  09:04:00 DE | [8.7; 810; 27MAY 1800 CEST] Draft LS on AT Commands for Bit Rate Recommendation - for agreement | Hello Imed and Thorsten, I also checked with my Qualcomm RAN2 colleagues and they think it would be good to cc RAN2 in this LS to CT1, esp. given that the request to CT1 is follow-up and has logical linkage to recent extensions of Rel-16 MAC and RRC specs by RAN2 to support higher UL/DL bitrate values commensurate with media streaming services, per request from SA4... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=145932) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  09:52:07 DE | [8.7; 810; 27MAY 1800 CEST] Draft LS on AT Commands for Bit Rate Recommendation - for agreement | Dear all, As agreed during our telco today 810 will be revised to 880. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=153954) |
| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  10:01:46 DE | [8.7; 810; 27MAY 1800 CEST] Draft LS on AT Commands for Bit Rate Recommendation - for agreement | Hello Imed, When I understood your last response on the LCID correctly, then CT1 should workout the identification of the LCID for which the recommendations are needed / desired. I would assume that the ANBR solution should also work, when multiple LCIds are used on MAC layer for the communication. BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=156504) |
| Imed Bouazizi | QUALCOMM | 2020-05-29 (Fri)  02:08:56 DE | [8.7; 810; 27MAY 1800 CEST] Draft LS on AT Commands for Bit Rate Recommendation - for agreement | Hello Thorsten, Good point. I am not the MAC expert so I can't tell for sure if multiple (downlink) logical channels can be used for the same PDU session. If that's the case, then the modem or the upper layers need to somehow aggregate these recommendation. Should we also ask this question, maybe this one to RAN? Or do we know the answer already?.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=2194) |
| Imed Bouazizi | QUALCOMM | 2020-05-29 (Fri) 02:08:56 DE | [8.7; 810; 27MAY 1800 CEST] Draft LS on AT Commands for Bit Rate Recommendation - for agreement | Hello Thorsten, Good point. I am not the MAC expert so I can't tell for sure if multiple (downlink) logical channels can be used for the same PDU session. If that's the case, then the modem or the upper layers need to somehow aggregate these recommendation. Should we also ask this question, maybe this one to RAN? Or do we know the answer already?.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=2194" \t "_blank) |

**Presenter:**

**Discussion:**

**Decision:**

**S4-200810** is revised to **S4-200880**.

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| [S4-200880](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200880.zip) | Draft LS to CT1 on AT Command Support for Bit Rate Recommendation | QUALCOMM Europe Inc. - Italy |

**S4-200880** is presented to SA4 plenary.

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| [S4-200820](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200820.zip) | 5GMSd AF-based Network Assistance (Stage 3) | Ericsson LM |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  17:06:59 DE | [8.7; 820; 27MAY 1800 CEST] pCR 26.512 5GMSd AF-based Network Assistance (Stage 3) - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Wednesday 27th May 1800 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=80100) |
| Richard Bradbury | RD | 2020-05-27 (Wed)  12:15:30 DE | [8.7; 820; 27MAY 1800 CEST] pCR 26.512 5GMSd AF-based Network Assistance (Stage 3) - for agreement | Just to note the overlap between this contribution and S4-200746. Is there any scope to reconcile these two proposals? On 26/05/2020 16:06, Frederic Gabin wrote: > I declare the email agreement process started on the Tdoc indicated in > the subject line. > > Your comments and questions are welcome. If no comments are received > by Wednesday 27^th May 1800 CEST the Tdoc will be agreed. > > Tdoc available at: > [FILE](https://www.../) | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=105221) |
| Thorsten Lohmar | ERICSSON | 2020-05-27 (Wed)  12:59:07 DE | [8.7; 820; 27MAY 1800 CEST] pCR 26.512 5GMSd AF-based Network Assistance (Stage 3) - for agreement | Hello Richard, There should be an ambition to combine. BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=107019) |
| Imed Bouazizi | QUALCOMM | 2020-05-27 (Wed)  20:31:21 DE | [8.7; 820; 27MAY 1800 CEST] pCR 26.512 5GMSd AF-based Network Assistance (Stage 3) - for agreement | Thanks Thorsten! I think we made some good progress in the offline call today and hopefully we can reach a common way forward tomorrow. Few comments though: 1. UsableBitRates is similar to Operation Point concept 2. windowDuration: this is not something you usually get from the AF. QoS allocation is done for the lifetime of the PDU/QoS Flow or until an event happens: PCF downgrades allocation or AF sends an update. 3. flowDescriptions: seems to be taken completely out .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=128024) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  06:54:40 DE | [8.7; 820; 27MAY 1800 CEST] pCR 26.512 5GMSd AF-based Network Assistance (Stage 3) - for agreement | All, Let's check today at the MBS SWG telco how 820 and 746 can be combined. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=140808) |
| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  09:35:46 DE | [8.7; 820; 27MAY 1800 CEST] pCR 26.512 5GMSd AF-based Network Assistance (Stage 3) - for agreement | Hi Imed, Thanks for the feedback. Yes, we are progressing and converging. 1. UsableBitRates is similar to Operation Point concept Good to know. 1. windowDuration: this is not something you usually get from the AF. QoS allocation is done for the lifetime of the PDU/QoS Flow or until an event happens: PCF downgrades allocation or AF sends an update. This is a bit similar to the "Averaging window" in case of ANBR. The QoS allocation is done .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=149969) |

**Decision:**

* No conclusion yet

**S4-200820** is noted.

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| [S4-200821](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200821.zip) | M1d Procedure for Dynamic Policy Provisioning (Stage 3) | Ericsson LM |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:33:46 DE | [8.7; 821; 29MAY 0500 CEST] pCR TS 26.512 M1d Procedure for Dynamic Policy Provisioning (Stage 3) -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Friday 29th May 0500 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=160016) |

**Presenter:**

**Discussion:**

**Decision:**

**S4-200821** is merged with **S4-200751** in **S4-200887**.

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| [S4-200822](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200822.zip) | API for Service Access information acquisition (Stage 3) | Ericsson LM, Enensys, BBC |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:37:55 DE | [8.7; 822; 29MAY 0500 CEST] pCR TS 26.512 API for Service Access information acquisition (Stage 3) -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Friday 29th May 0500 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=162676) |
| Richard Bradbury | RD | 2020-05-28 (Thu)  13:23:00 DE | [8.7; 822; 29MAY 0500 CEST] pCR TS 26.512 API for Service Access information acquisition (Stage 3) -> for agreement | Couple of spots: \* Shared data type "PercentType" should probably be just something like "Percentage" throughout for naming consistency with other 3GPP API data types. \* Table 11.2.5.1-1: o Empty space before DurationSec in metrics reporting configuration /reportingInterval/ needs removing. On 28/05/2020 09:37, Frederic Gabin wrote: > I declare the email agreement process started on the Tdoc indicated in > the subject line. > > Your comments and questions are welcome. .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=168644) |
| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  13:57:37 DE | [8.7; 822; 29MAY 0500 CEST] pCR TS 26.512 API for Service Access information acquisition (Stage 3) -> for agreement | Good spot. BR, /Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=170442) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 05:45:34 DE | [8.7; 822; 29MAY 0500 CEST] pCR TS 26.512 API for Service Access information acquisition (Stage 3) -> for agreement | Let's allocate a revision at the upcoming telco. /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=4658" \t "_blank) |

**Presenter:**

**Discussion:**

* Thorsten: has written a version where he incorporated Richard’s comments

**Decision:**

* revised in 889

**S4-200822** is revised in **S4-200889**.

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| [S4-200889](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200889.zip) | API for Service Access information acquisition (Stage 3) | Ericsson LM, Enensys, BBC |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 09:31:18 DE | [8.7; 889; 2JUNE 1200 CEST] pCR TS 26.512 API for Service Access information acquisition (Stage 3) -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 2nd June 1200 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e" \t "_blank) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=17362" \t "_blank) |
| Frederic Gabin | ERICSSON | 2020-06-02 (Tue) 13:20:21 DE | [8.7; 889; 2JUNE 1200 CEST] pCR TS 26.512 API for Service Access information acquisition (Stage 3) -> for agreement | Dear all, I haven't received any comments on this Tdoc. It is therefore agreed. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2006A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=8548" \t "_blank) |
| Richard Bradbury | RD | 2020-06-02 (Tue) 13:32:47 DE | [8.7; 889; 2JUNE 1200 CEST] pCR TS 26.512 API for Service Access information acquisition (Stage 3) -> for agreement | One small thing for alignment with stage 2: we agreed to remove "QoE" from all references to metrics reporting. So "ClientQoEMetricsReportingConfiguration" should be "ClientMetricsReportingConfiguration". I think that change in the draft has been lost somewhere along the way. Apologies I didn't spot this until just now. Perhaps the editor can handle if agreeable? On 02/06/2020 12:20, Frederic Gabin wrote: > I haven’t received any comments on this Tdoc. It .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2006A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=9938" \t "_blank) |
| Thorsten Lohmar | ERICSSON | 2020-06-02 (Tue) 13:35:47 DE | [8.7; 889; 2JUNE 1200 CEST] pCR TS 26.512 API for Service Access information acquisition (Stage 3) -> for agreement | Yes, I can take care about it. BR; Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2006A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=11007" \t "_blank) |

**S4-200889** is agreed.

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| [S4-200839](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200839.zip) | APIs for Server Certificates, Content Preparation Templates and Ingest Protocols | BBC |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:39:39 DE | [8.7; 839; 29MAY 0500 CEST] pCR TS 26.512 APIs for Server Certificates, Content Preparation Templates and Ingest Protocols -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Friday 29th May 0500 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=161346) |
| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  15:05:13 DE | [8.7; 839; 29MAY 0500 CEST] pCR TS 26.512 APIs for Server Certificates, Content Preparation Templates and Ingest Protocols -> for agreement | Hi Richard, Thanks, looks generally good. Some minor edits / comments uploaded. BR, Thorsten [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/S4-200839%20pCR%20to%20TS%2026.512%20-%20APIs%20for%20Server%20Certificates%2C%20Content%20Preparation%20Templates%20and%20Ingest%20Protocols-tlo.docx..) | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=172561) |
| Richard Bradbury | RD | 2020-05-28 (Thu)  16:00:52 DE | [8.7; 839; 29MAY 0500 CEST] pCR TS 26.512 APIs for Server Certificates, Content Preparation Templates and Ingest Protocols -> for agreement | Thanks for those corrections. I agree with them all and will prepare a revision. Frédéric – Please can I have a fresh TDoc number to provide a revised contribution? On 28/05/2020 14:05, Thorsten Lohmar wrote: > Thanks, looks generally good. Some minor edits / comments uploaded. > > [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/S4-200839%20pCR%20to%20TS%2026.512%20-%20APIs%20for%20Server%20Certificates%2C%20Content%20Preparation%20Templates%20and%20Ingest%25..) | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=179120) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  16:11:28 DE | [8.7; 839; 29MAY 0500 CEST] pCR TS 26.512 APIs for Server Certificates, Content Preparation Templates and Ingest Protocols -> for agreement | Richard, 839 is revised to 883. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=181163) |
| Richard Bradbury | RD | 2020-05-29 (Fri) 06:01:15 DE | [8.7; 839; 29MAY 0500 CEST] pCR TS 26.512 APIs for Server Certificates, Content Preparation Templates and Ingest Protocols -> for agreement | Thank you. \*S4-200883\* is now available in the Inbox: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/S4-200883.zip" \t "_blank) On 28/05/2020 15:11, Frederic Gabin wrote: > 839 is revised to 883. > > \*From:\*3GPP\_TSG\_SA\_WG4\_MBS \*On Behalf Of \*Richard Bradbury > \*Sent:\* jeudi 28 mai 2020 16:01 > \*To:\*.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=12813" \t "_blank) |
| Imed Bouazizi | QUALCOMM | 2020-05-29 (Fri) 06:21:17 DE | [8.7; 839; 29MAY 0500 CEST] pCR TS 26.512 APIs for Server Certificates, Content Preparation Templates and Ingest Protocols -> for agreement | Hi Richard, Just a question for clarification. Does your proposal allow for the AP to request creation of a certificate by the AF? This is necessary if the AP would like to publish its content using the target domain instead of the origin domain. In such case, the certificate will be internal, no need to even share it with the AP... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=14723" \t "_blank) |
| Richard Bradbury | RD | 2020-05-29 (Fri) 14:47:20 DE | [8.7; 839; 29MAY 0500 CEST] pCR TS 26.512 APIs for Server Certificates, Content Preparation Templates and Ingest Protocols -> for agreement | Apologies, Imed. I think this feedback came in during this morning's call, and I only just spotted it. My contribution addresses the case where the Application Provider wants to sign a certificate with its own domain name (which it might delegate to an MNO-operated 5GMSd AS by means of DNS if it doesn't want to operate its own 5GMSd AS). It doesn't yet address the other case you mention where the content is served from a .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=26995" \t "_blank) |
| Imed Bouazizi | QUALCOMM | 2020-05-29 (Fri) 19:04:38 DE | [8.7; 839; 29MAY 0500 CEST] pCR TS 26.512 APIs for Server Certificates, Content Preparation Templates and Ingest Protocols -> for agreement | Hi Richard. That is fine. We can work on it during the upcoming calls. Br, Imed.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=30364" \t "_blank) |

**Decision:**

* revise

**S4-200839** is revised to **S4-200883**.

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| [S4-200883](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/S4-200883.zip) | APIs for Server Certificates, Content Preparation Templates and Ingest Protocols | BBC |

**Presenter: Richard Bradbury (BBC)**

**Discussion:**

* Iraj: table 6.3.1.1 in the resource protocol what do you list?
* Richard: Imed has defined one ingest protocol based on DASH-IF protocol. this API is used to find out what ingest protocol the 5GMS3 system is using
* Iraj: would like a more complex resource so that clients that do not know the protocol can discover what the protocol is
* Richard: maybe it is a layer of complexity that can be added later. Richard wanted to just fill up some blank spaces in the text
* Iraj: its a simple fix that increases interoperability

**Decision:**

**S4-200883** is agreed.

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| [S4-200847](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200847.zip) | 26.512 Content Preparation Template: scope and design for R16 | Tencent |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-26 (Tue)  17:12:55 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Wednesday 27th May 1800 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=82045) |
| Thorsten Lohmar | ERICSSON | 2020-05-27 (Wed)  11:58:38 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | Hello, This looks more like Stage 2 additions than stage 3 additions. We still have studies around NBMP and FLUS ongoing and I would appreciate to wait for study results, before including NBMP into 5GMSu. BR, Thorsten.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=103381) |
| Iraj Sodagar | LIVE | 2020-05-27 (Wed)  16:43:35 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | Hi Thorsten, It seems you missed the whole point of this contribution. The basic question this contribution raises is the following: "What level of functionality do we need to include in stage 3 for the content presentation template?" This is not a stage 2 question. It is a stage 3 question. Maybe I am missing a point, but I haven't found any defined functionality for the content presentation template in the current 26.512. Is the content .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=116449) |
| Thomas Stockhammer | QUALCOMM | 2020-05-27 (Wed)  17:51:10 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | All, I would not understand what adding an Editor's Note to a specification that is to be finalized, would provide. It seems to be better to come back to this as part of Rel-17. Thanks Thomas.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=117262) |
| Iraj Sodagar | LIVE | 2020-05-27 (Wed)  18:04:13 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | Thomas, Please read my response to Thorsten. I agree ideally a solution needs to go in 26.512 and not a note. But since the solution doesn't exist yet, to me it makes sense to define the scope of the solution first. The reason I suggested the editor note was to capture the scope somewhere, so the follow on contributions be in that scope and do not go all over the place with the limited time we have... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=120779) |
| Imed Bouazizi | QUALCOMM | 2020-05-27 (Wed)  18:37:07 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | Hi Iraj, It seems that you assume the content preparation steps are deduced from the input format and desired output format as described by the MPDs. Is that correct? While I think this might be one way to do it and I know some providers do this, I believe that we should allow for a bit more of flexibility. In the same way we did the content processing description in FLUS, the content preparation template may have a MIME type .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=121493) |
| Iraj Sodagar | LIVE | 2020-05-27 (Wed)  18:52:22 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | Hi Imed, Please see my comments inlines... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=123105) |
| Richard Bradbury | RD | 2020-05-27 (Wed)  19:13:24 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | Picking up on this comment: "the content preparation template may have a MIME type and be of free form, without mandating a specific format" If the content preparation feature is not standardised in some basic form by 3GPP, every 5GMS System vendor will come up with something different. That would make it an unusable feature from my perspective as a 5GMSd Application Provider. I need homogeneity across different 5GMS System deployments to justify writing a 5GMSd-Aware Application, .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=125114) |
| Iraj Sodagar | LIVE | 2020-05-27 (Wed)  20:43:06 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | I agree with you Richard that free-form is quite useless for an application service provider. I raised the same issue for the FLUS specification capability discovery and we improved it a bit there, but still inadequate IMO. We have 2 choices for R16 26.512 (and that is true for other undefined/underspecified functionalities in 26.512 BTW):.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=128895) |
| Thomas Stockhammer | QUALCOMM | 2020-05-27 (Wed)  20:59:47 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | All, I do not consider free-form is a problem. Do you say HTTP transport protocol is useless because it does not define the content that is delivered? As long as the functional description is clear, it is good enough. As a next step we should work in the industry to adopt the MPD for this purpose and we can instantiate this later... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=129536) |
| Iraj Sodagar | LIVE | 2020-05-27 (Wed)  21:30:01 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | HTTP without having a defined message body is like agreeing on using sign language but not having a defined the sign language itself. You know the waving is (a) sign language but you don’t know the meaning! You can just acknowledge, “Yes, I see you! But sorry I don’t understand what you are saying” 😊.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=131168) |
| Thomas Stockhammer | QUALCOMM | 2020-05-28 (Thu)  00:03:31 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | From: Iraj Sodagar <.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=131773) |
| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  06:59:57 DE | [8.7; 847; 27MAY 1800 CEST] 26.512 Content Preparation Template: scope and design for R16 - for agreement | Dear all, I see no agreement on this proposal here. Let’s check on the way forward at the upcoming telco. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=141668) |

**Presenter: Iraj Sodagar (Tencent)**

**Discussion:**

* Fred - willingness of group to define such a template within Rel-16?
* Richard - good point from Thomas in email discussion - within M4d, MIME type. Need one common thing, if every case uses a different config then this does not help, can leave it ffs.
* Fred - other views?
* Thomas - as per email, cannot be an editor’s note at this stage. If this is not called for in the WID then no need, have higher priority issues to progress.
* Iraj - sees the need for content prep. But it’s a fair question to ask the group.

**Decision:**

* Noted.

**S4-200847** is noted.

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| [S4-200848](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200848.zip) | Default downlink profile | Orange |

**S4-200848** is revised to **S4-200867**.

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| [S4-200867](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200867.zip) | 5GMS3 TV profiles | AT&T, Deutsche Telekom AG, Orange, SK Telecom, Telecom Italia |

**E-Mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:05:13 DE | [8.7; 867; 29MAY 0500 CEST] pCR TS 26.511 5GMS3: Default downlink profile -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. This pCR is an alternative proposal that challenges the Working Assumption agreed at the MBS SWG AH Telco 5th May (implemented in Tdoc 760). Your comments and questions are welcome. If no comments are received by Friday 29th May 0500 CEST the Tdoc will be agreed... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=157437) |
| Curcio, Igor (Nokia - FI/Tampere) | NOKIA | 2020-05-29 (Fri)  00:26:51 DE | [8.7; 867; 29MAY 0500 CEST] pCR TS 26.511 5GMS3: Default downlink profile -> for agreement | Dear Fred, One procedural question: in case of no comments on neither of 867 and 760 by the deadline, are both considered agreed? I think the two documents are mutually exclusive. A second question: Document 867 is to be considered a late document (submitted after the SA4 regular deadline) or a document produced during the meeting for which such deadline does not apply? I am asking this because I haven’t followed all MBS sessions and don’t know if .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=190654) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri)  01:35:39 DE | [8.7; 867; 29MAY 0500 CEST] pCR TS 26.511 5GMS3: Default downlink profile -> for agreement | Hi Igor, all, See below.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=740) |
| Kiho Choi |  | 2020-05-29 (Fri)  04:57:50 DE | [8.7; 867; 29MAY 0500 CEST] pCR TS 26.511 5GMS3: Default downlink profile -> for agreement | - | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=4403) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 05:55:42 DE | [8.7; 867; 29MAY 0500 CEST] pCR TS 26.511 5GMS3: Default downlink profile -> for agreement | Let’s discuss the matter further during our upcoming telco... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=11947" \t "_blank) |

**Decision:**

* Comments received, Working Assumption in 760 survives.

**S4-200867** is noted.

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| [S4-200849](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200849.zip) | 5GMS3 TV profiles | Orange |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:19:10 DE | [8.7; 849; 29MAY 0500 CEST] pCR TS 26.511 5GMS3 TV profiles -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Friday 29th May 0500 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=158740) |
| Richard Bradbury | RD | 2020-05-28 (Thu)  13:04:31 DE | [8.7; 849; 29MAY 0500 CEST] pCR TS 26.511 5GMS3 TV profiles -> for agreement | This simplification is potentially beneficial, subject to the outcome of other contributions. But I support the general principle of making Full HD the baseline for HDTV. Just some editorials: \* One remaining occurrence of "Television (TV) profile" in clause 5.4.1.2. Was that deliberate or accidental? \* No need to prefix every reference to a 3GPP specification with "3GPP": this information is present in clause 2 so doesn't need to be repeated in the normative .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=167863) |
| Gilles Teniou | ORANGE | 2020-05-28 (Thu)  15:31:47 DE | [8.7; 849; 29MAY 0500 CEST] pCR TS 26.511 5GMS3 TV profiles -> for agreement | Thank you Richard for your comments. \* Indeed there is a typo in clause 5.4.1.2, should read : HDTV profile. \* On the 3GPP prefix before each specification number, \* I first relied on the TS/TR template in which the 3GPP prefix is repeated each time a spec number is used: \* E.g. : For the purposes of the present document, the terms given in 3GPP TR 21.905 [1] and the following apply. A term defined in the present document .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=175515) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 05:48:04 DE | [8.7; 849; 29MAY 0500 CEST] pCR TS 26.511 5GMS3 TV profiles -> for agreement | Let's allocate a revised version at the upcoming telco... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=6653" \t "_blank) |

**Decision:**

* Not sufficient time to discuss.

**S4-200849** will be presented to SA4 plenary

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## 8.8 FS\_5GMS\_Multicast (Feasibility Study on Multicast Architecture Enhancements for 5GMSA)

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| [S4-200773](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200773.zip) | [FS\_5GMulticast] More Thoughts on Key Issues | Qualcomm Incorporated |

**S4-200773** is not treated during SA4#109-e and noted without presentation.

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| [S4-200837](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200837.zip) | [FS\_5GMS\_Multicast] Proposed Skeleton TR 26.802 | TELUS |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:41:22 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Friday 29th May 0500 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=162032) |
| Thorsten Lohmar | ERICSSON | 2020-05-28 (Thu)  11:05:42 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Hello, Thanks for the skeleton TR. I would suggest to fill in references in Clause 2 only based on text contributions, i.e. when the text in the TR body is actually referring to an external document. For example, I doubt that we truly refer to M2 and M3 and other RAN spec during the study. For all the MBMS related references, it should be enough to refer to SA2 TS 23.246... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=166510) |
| Richard Bradbury | RD | 2020-05-28 (Thu)  14:09:23 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Peng – Thanks for this. I uploaded some tidy-ups here: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/S4-200837-Proposed%20Skeleton%20TR26.802%20multicast%20enhancemnet%20to%205G%20media%20streaming%20-%20tracked%20changes%20(richardb%202020-05-28).doc) This also provides the latest architecture diagram from TS 26.501 agreed this morning. Question: did you intend to remove clause 6.1? It is currently shown using the "strikethrough" effect rather than as a tracked .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=171349) |
| Thomas Stockhammer | QUALCOMM | 2020-05-28 (Thu)  15:30:39 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Peng, all, Some small updates on top of Richard's and addressing some of Thorsten's here: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/MBS/S4-200837-Proposed%20Skeleton%20TR26(TS).doc) Thomas.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=174611) |
| Peng Tan | TELUS | 2020-05-28 (Thu)  15:49:46 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Hi Richard, Thanks for the updates. Yes, I intended to remove 6.1, and incorporated into 6.x.3 section for each solution. The new structure should like this. For some reason, I forgot to reflect the change on the tracked changes version. But it is correct in the clean version. 6.1 Solution #X: Title 6.1.1 Functional description.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=177291) |
| Peng Tan | TELUS | 2020-05-28 (Thu)  15:50:44 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Thanks, Thomas. Peng.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=177899) |
| Peng Tan | TELUS | 2020-05-28 (Thu)  19:43:36 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Thanks, Thorsten for your comments. Please see my responses inline. All, the Rev1 incorporating all the suggestions from Thorsten, Richard, and Thomas is here [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/MBS/S4-200837-Proposed%20Skeleton%20TR26.802%20-%20Rev1_Tracked%20Changes.doc) and the clean version is here [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/MBS/S4-200837-Proposed%20Skeleton%20TR26.802%20-%20Rev1_Clean.doc) Please have a look, and let me .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=185908) |
| Richard Bradbury | RD | 2020-05-28 (Thu)  20:49:20 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Peng – I fixed up the table of references and made a few other suggestions: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/S4-200837-Proposed%20Skeleton%20TR26.802%20-%20Rev1_Tracked%20Changes%20(richardb%202020-05-28).doc) On 28/05/2020 18:43, Peng Tan wrote: > > Thanks, Thorsten for your comments. Please see my responses inline. > > All, the Rev1 incorporating all the suggestions from Thorsten, > Richard, and Thomas is here > > .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=187071) |
| Peng Tan | TELUS | 2020-05-28 (Thu)  22:04:38 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Hi Richard, Noticed. I uploaded Rev2 to reflect all the changes so far. [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Inbox/Drafts/MBS/S4-200837-Proposed%20Skeleton%20TR26.802%20-%20Rev2_Tracked%20Changes.doc) Thanks Peng.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=188421) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 05:50:25 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Let's allocate a revision at the upcoming telco... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=8164" \t "_blank) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 09:40:21 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Peng, 837 is revised to 941. Let me know when it's available. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=20304" \t "_blank) |
| Peng Tan | TELUS | 2020-05-29 (Fri) 15:55:17 DE | [8.8; 837; 29MAY 0500 CEST] Draft TR 26.802 Proposed Skeleton (FS\_5GMS\_Multicast) -> for agreement | Thanks, Fred. The S4-200941 has been uploaded to the inbox. Best regards, Peng.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=27819" \t "_blank) |

**Decision:**

* revised

**S4-200837** is revised to **S4-200941**.

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| [S4-200941](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200941.zip) | [FS\_5GMS\_Multicast] Proposed Skeleton TR 26.802 | TELUS |

**S4-200941** is presented to SA4 plenary.

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| [S4-200841](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200841.zip) | Initial considerations on scenarios and key issues for 5G MS multicast ingestion and distribution | TELUS |

**S4-200841** is not treated during SA4#109-e and noted without presentation.

## 8.9 FS\_EMSA (Feasibility Study on Streaming Architecture extensions For Edge processing)

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| [S4-200749](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200749.zip) | FS\_EMSA: use cases and technical requirements | Tencent |

**S4-200749** is not treated during SA4#109-e and noted without presentation.

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| [S4-200750](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200750.zip) | FS\_ESMA: Discovery of Edge Processing Capabilities Requirements | Tencent |

**S4-200750** is not treated during SA4#109-e and noted without presentation.

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| [S4-200774](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200774.zip) | [FS\_EMSA] Use cases for EMSA Study | Qualcomm Incorporated |

**S4-200774** is not treated during SA4#109-e and noted without presentation.

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| [S4-200806](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200806.zip) | FS\_EMSA: Edge Caching for Video Streaming | KPN N.V. |

**S4-200806** is not treated during SA4#109-e and noted without presentation.

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| [S4-200808](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200808.zip) | Downlink Services with Network Edge | Samsung Electronics Co., Ltd. |

**S4-200808** is not treated during SA4#109-e and noted without presentation.

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| [S4-200813](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200813.zip) | Adding SA2 Architecture and Support for Edge Computing | Tencent |

**S4-200813** is not treated during SA4#109-e and noted without presentation.

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| [S4-200842](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200842.zip) | EMSA Use Case Template | QUALCOMM Europe Inc. - Italy |

**E-mail Discussion:**

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| Frederic Gabin | ERICSSON | 2020-05-28 (Thu)  10:44:22 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Friday 29th May 0500 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=163338) |
| Sejin Oh |  | 2020-05-28 (Thu)  11:25:11 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Dear proponents on 842. I agree most of all except cost analysis in the use case template. I agree that use case template includes sufficient information is very useful. I am not sure the cost analysis of each use case is feasible. For clarification on cost analysis in the template, How can we actually analyze the cost aspect per use case ? How does the cost analysis qualify whether the use case is relevant?.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=167210) |
| Thomas Stockhammer | QUALCOMM | 2020-05-28 (Thu)  17:21:37 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Sejin, Thanks for the support and the comments. The cost analysis is maybe a bit confusing as you interpret it, but let me clarify the intention. We believe that there should be a discussion on why the processing is done in the end device, an edge or in the cloud. Note that we need to define these terms better... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=182008) |
| Kleinrouweler, J.W.M. (Jan Willem) | TNO | 2020-05-28 (Thu)  19:29:31 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Hi Thomas, all, Overall, I think the template is a good start to create some structure for the use cases. Some suggestions/concerns: \* For the capabilities and QoS/QoE considerations, it might be hard specify an amount of resources (CPU cores, RAM, CUDA cores). Instead, I suggest to focus more on the type of computing that is needed for the (e.g. CPU intensive computation, real-time video processing, 3D rendering, storage and high throughput transfer, etc.). \* I'm not .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005D&L=3GPP_TSG_SA_WG4_MBS&O=D&P=185039) |
| Sejin Oh |  | 2020-05-29 (Fri)  04:36:03 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Hi Thomas, Your clarification makes me understand what you intend on it. I agree the basic intention. How about adding the clarified text to the template as what you explaned or replacing the term "cost analysis" with others? Best regards, Sejin ------ Dr. Sejin Oh || Standard Manager || Communication & Media Standard Lab., LG Electronics Inc. || Mobile : +82-10-5054-4161 LG Electronics Inc., 19, Yangjae-daero 11gil, Seocho-gu, Seoul 137-130, S. Korea... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=2846) |
| Imed Bouazizi | QUALCOMM | 2020-05-29 (Fri)  04:57:06 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Hi Jan-Willem, Sejin, Please see inline. (Also addresses Sejin's concern and suggestion). Br, Imed.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=3576) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 05:51:44 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Let's allocate a revision at the upcoming telco... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=9396" \t "_blank) |
| Iraj Sodagar | LIVE | 2020-05-29 (Fri) 06:04:42 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | A few comments: 1. In categorization, there is no 2D content in type. Maybe we should call it content type. In the use-case, CMAF streaming and ad-insertion are mentioned as a use-case. 2. In delivery, split is not a form of delivery. It is a solution and I suppose we want to do split processing in many use-cases anyway. 3. In delivery, on-demand and live are not separated. Maybe we need to add them. 4. .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=13892" \t "_blank) |
| Imed Bouazizi | QUALCOMM | 2020-05-29 (Fri) 06:25:30 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Thanks Iraj for the comments. I will implement them. On 4, I think the latest version has a benefits/impact section, that should be the justification. On 5) The current standardization status and gaps are somehow expected to cover the technical requirements. Maybe we can make it a category of its own if it is clear what is expected to go there... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=15408" \t "_blank) |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 09:41:24 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Imed, 842 is revised to 942. Let me know when it's available. Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=21450" \t "_blank) |
| Imed Bouazizi | QUALCOMM | 2020-05-29 (Fri) 11:09:51 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Thanks a lot Fred and Iraj. Attached is document 942. It has also been uploaded to the inbox. Br, Imed.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=24326" \t "_blank) |
| Iraj Sodagar | LIVE | 2020-05-29 (Fri) 19:09:32 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Thanks, Imed. It looks good. I agree with using this template for future submissions on use-cases. But I don't think we should make the already submitted contributions on the use-cases to this meeting subject to this template, as the template is just proposed and being completed during this meeting. BR Iraj.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=31215" \t "_blank) |
| Thomas Stockhammer | QUALCOMM | 2020-05-29 (Fri) 19:19:41 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Iraj, But we will not be able to treat any of the contributions at this meeting. Does it not make sense that resubmissions to upcoming telcos are done by adding the use cases to the template? Thomas.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=32058" \t "_blank) |
| Iraj Sodagar | LIVE | 2020-05-29 (Fri) 19:42:36 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Thomas, There are two issues here: 1. We can't make the contributions subject to some rules were not established before the meeting, as a matter of principle. If we wanted to ask contributions on use-cases to follow a template, we should have provided the template before the meeting submission deadline. 2. We should do a better job of our time-management. Before the meeting, I asked whether we should not submit any contributions to this meeting due the .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=32808" \t "_blank) |
| Thomas Stockhammer | QUALCOMM | 2020-05-29 (Fri) 19:57:07 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Iraj, I understand the problem, but if we want to address new work, a few aspects are relevant. \* Support closing the old work. We should only correct what is really broken. I believe we had too many discussions on the frozen Rel-16 work for unnecessary beautification. Stage-2 does not have to perfect. It is a guidance for doing good stage-3. \* On the new work, it is always good to start from the best processes. However, once in .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=33670" \t "_blank) |
| Iraj Sodagar | LIVE | 2020-05-29 (Fri) 20:07:00 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | My comments were clearly on this SI and not other issues of R16 or Covid-19: This is not the first time 3GPP is working on an SI. So if the plan is to first create a template for use-cases and then receive contributions on use-cases based on the template, let's announce it ahead of time, so people don't have to re-do their contributions... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=34504" \t "_blank) |
| Thomas Stockhammer | QUALCOMM | 2020-05-29 (Fri) 20:19:24 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Iraj, I do not understand what you mean by this. As you may observe, we have many newcomers, many more people and we have new dynamics. You can not always predict what is happening and once in a while you observe only once you get contributions. Then it is important to structure... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=35102" \t "_blank) |
| Iraj Sodagar | LIVE | 2020-05-29 (Fri) 20:30:38 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Thomas, I'm not against the use of templates. I provided my input to improve the submitted template and I'm supportive of using it as I did support use of it in FS\_XRTraffic. The issues I raised were the lack of planning and coordination... | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=35664" \t "_blank) |
| Kleinrouweler, J.W.M. (Jan Willem) | TNO | 2020-06-02 (Tue) 10:55:00 DE | [8.9; 842; 29MAY 0500 CEST] EMSA Use Case Template -> for agreement | Dear Iraj, Thomas, I think having this template is good and it gives structure (also for the discussion we are going to have 😉). Thanks Imed for making the changes! We should be able to copy our contributions into this template for upcoming meetings. I do agree with Iraj that we have to be careful with the timing. Rel-16 work of course has priority, but given that we are going to ask for a Rel-16 extension, EMSA work is .. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2006A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=2117" \t "_blank) |

**Decision:**

* Revise based on discussion

**S4-200842** is revised to **S4-200942**.

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| [S4-200942](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200942.zip) | EMSA Use Case Template | QUALCOMM Europe Inc. - Italy |

**E-mail Discussion:**

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| --- | --- | --- | --- | --- | --- |
| Frederic Gabin | ERICSSON | 2020-05-29 (Fri) 11:51:01 DE | [8.7; 942; 2JUNE 1200 CEST] EMSA Use Case Template -> for agreement | Dear all, I declare the email agreement process started on the Tdoc indicated in the subject line. Your comments and questions are welcome. If no comments are received by Tuesday 2nd June 1200 CEST the Tdoc will be agreed. Tdoc available at: [FILE](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e" \t "_blank) Best regards, /Frédéric.. | [Original Email](https://list.etsi.org/scripts/wa.exe?A2=ind2005E&L=3GPP_TSG_SA_WG4_MBS&O=D&P=25706" \t "_blank) |

**Decision:**

* No comments received. Agreed.

**S4-200942** is agreed.

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| [S4-200843](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200843.zip) | Overview of ongoing 3GPP activities on Edge | QUALCOMM Europe Inc. - Italy |

**S4-200843** is not treated during SA4#109-e and noted without presentation.

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| [S4-200844](http://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_109-e/Docs/S4-200844.zip) | Use case: Caching downlink streaming content | KPN N.V. |

**S4-200844** is not treated during SA4#109-e and noted without presentation.

## 8.10 New Work / New Work Items and Study Items

None

## 8.11 Others including TEI

None

## 8.12 Review of the future work plan

See time plans of respective work and study items.

## 8.13 Any Other Business

None

## 8.14 Close of the session

The chairman thanked the delegates and closed the meeting at 07:32am CEST on 29th May 2020.

## Annex A: Attendees

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME LAST** | **FIRST** | **COMPANY** | **Attended** |
| Stockhammer | **Thomas** | **Qualcomm Incorporated** |  |
| Teniou | **Gilles** | **Orange** | yes |
| Gabin | **Frédéric** | **Ericsson** |  |
| Thienot | **Cedric** | **Enensys** |  |
| Heikkilä | **Gunnar** | **Ericsson** |  |
| Bouazizi | **Imed** | **Qualcomm Incorporated** |  |
| Singer | **David** | **Apple** |  |
| Lo | **Charles** | **Qualcomm Incorporated** |  |
| Lohmar | **Thorsten** | **Ericsson** |  |
| Oyman | **Ozgur** | **Intel** |  |
| Szucs | **Paul** | **Sony Corporation** |  |
| D’Acunto | **Lucia** | **KPN** |  |
| Hamza | **Ahmed** | **InterDigital Communications** |  |
| Singh | **Gurdeep** | **Fraunhofer HHI** |  |
| Oh | **Sejin** | **LG Electronics Inc.** |  |
| Huang | **Cheng** | **ZTE Corporation** |  |
| Curcio | **Igor** | **Nokia Corporation** |  |
| Ahsan | **Saba** | **Nokia Corporation** |  |
| Sodagar | **Iraj** | **Tencent America** |  |
| Kleinrouweler | **Jan Willem** | **KPN** |  |
| Döhla | **Stefan** | **Fraunhofer IIS** |  |
| Champel | **Mary-Luc** | **XiaoMi** |  |
| Joel | **Kim** | **Facebook** |  |
| Yee Sin | **Chan** | **Facebook** |  |
| Hu | **James** | **AT&T** |  |
| Lee | **Brian** | **Dolby** |  |
| Feiten | **Bernhard** | **Deutsche Telekom** |  |
| Yong | **He** | **InterDigital** |  |
| Tan | **Peng** | **TELUS** |  |
| GU | **XIAOJUN** | **HUAWEI** |  |
| Raulet | **Mickael** | **ATEME** |  |
| Wang | **Yufei** | **China Mobile** |  |
| Sanders | **Peter** | **one2many** |  |
| Bradbury | **Richard** | **BBC Research & Development** |  |
| Thienot | **Cedric** | **Enensys** |  |
| Gül | **Serhan** | **Fraunhofer HHI** |  |
| Han | **Jaeshin** | **LG Electronics** |  |
| Yang | **Hyun-Koo** | **Samsung Electronics** |  |
| Song | **Jaeyeon** | **Samsung Electronics** |  |
| Goldrei | **Simon** | **Apple** |  |
| Daniel | **Jérôme** | **Orange** |  |
| Fourdeux | **Henri** | **InterDigital** | Yes |
| Dillen | **Paul** | **Philips** |  |
| Biatek | **Thibaud** | **Ateme** |  |
| Saha | **Jayeeta** | **MCC** |  |
| ? | **Lin** | **China Mobile** |  |
| Zhou | **JiaJun** | **China Mobile** |  |
| Xu | **Song** | **China Mobile** |  |
| Feiten | **Bernhard** | **Deutsche Telekom** |  |
| Berndtsson | **Gunilla** | **Ericsson LM** |  |
| Yidan | **Teng** | **Huawei** |  |
| Houdaille | **Rémy** | **InterDigital** |  |
| Morita | **Naotaka** | **NTT** |  |
| Ed | **O’Leary** | **Rogers** |  |
| Choi | **Kiho** | **Samsung** |  |
| Jun | **Kyunghun** | **Samsung** |  |
| Budagavi | **Madhukar** | **Samsung** |  |
| Kolan | **Prakash** | **Samsung** |  |
| Joshi | **Rajan** | **Samsung** |  |
| Hakju Lee | **Ryan** | **Samsung** |  |
| Isberg | **Peter** | **Sony** |  |
| Gibellino | **Diego** | **Telecom Italia** |  |
| Abhishek | **Rohit** | **Tencent** |  |
| Zhang | **Zhuoyun** | **Tencent** |  |
| Gorley | **Paul** | **BBC** |  |
| Gunkel | **Simon** | **KPN** |  |
| Laaksonen | **Lasse** | **Nokia** |  |
| Wang | **Dong** | **Oppo** |  |
| Yip | **Eric** | **Samsung** |  |
| Jun | **Kyunghun** | **Samsung** |  |
| Kerdranvat | **Michel** | **Interdigital** |  |
| Rusanovskyy | **Dmytro** | **Qualcomm** |  |
| Rhyu | **Sungryeul** | **Samsung** |  |
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# Annex B: Final agenda

To be added

# Annex C - Documents status

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

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

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

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

1. **M. Frédéric Gabin, Ericsson**

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   **M: +33 6 78 44 85 75** [↑](#footnote-ref-1)