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

**Title: 3GPP SA4 MBS SWG report at SA4#112-e**

**Document for: Approval**

**Agenda item: 13.2**

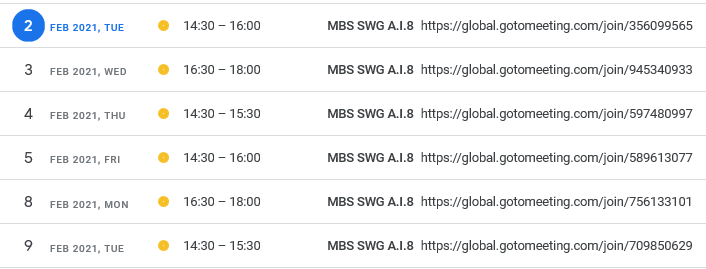
MBS SWG Minutes during SA4#112-e

## 8.1 Opening of the session

The MBS SWG e-mail discussions started on Monday, 1 February at 10:53:25 CET.

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| --- | --- | --- |
| [MBS SWG @ SA4#112-e meeting opening - Start of Block A](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=76) | Gabin, Frederic | Mon, 1 Feb 2021 09:53:25 +0000 |

MBS SWG Telcos are scheduled as follows in CET times:



Mr. Frédéric Gabin (Dolby, Chairman of MBS SWG) opens the telco sessions on 2 February at 14:30 CET.

This document was shared [online](https://docs.google.com/document/d/1-OnoOdQ5VHb_AVBWjfiDtWR80CaV6qvyNDibuDBIhdA/edit?usp=sharing).

Scribes:

* Richard Bradbury (BBC)
* Julien Lemotheux (Orange)
* Thomas Stockhammer (Qualcomm)

E-mail discussion from here:

* <https://list.etsi.org/scripts/wa.exe?A1=ind2102A&L=3GPP_TSG_SA_WG4_MBS>
* <https://list.etsi.org/scripts/wa.exe?A1=ind2102B&L=3GPP_TSG_SA_WG4_MBS>

## 8.2 Registration of documents

The following documents were allocated at the start of the MBS online session, February 2, 2021.

|  |  |  |  |
| --- | --- | --- | --- |
| 5.3 | Other groups | Plenary | 003 (DVB/MABR) -> MBS SWG  004 (SCTE/DASH) -> MBS SWG |

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| 8 | Multicast-Broadcast-Streaming (MBS) SWG | - |  |
| 8.1 | Opening of the session | A |  |
| 8.2 | Registration of documents | A |  |
| 8.3 | Reports/Liaisons from other groups/meetings | A |  |
| 8.4 | Issues for immediate consideration | A |  |
| 8.5 | CRs to features in Release 16 and earlier | A | 135a, 042a (->CR), 116a (->CR), 117n, 082, 159n, 044->140->226a, 012a, 038a, 134a, 157a, 158a, 174a, 106a    ~~039~~, ~~043~~ |
| 8.6 | FS\_5GMS\_Multicast (Feasibility Study on Multicast Architecture Enhancements for 5GMSA) | A | TR: 081a  TP: 080a    046a, 047a, 048a, 079a, 152a, 153a, 154a    ~~045~~ |
| 8.7 | FS\_EMSA (Feasibility Study on Streaming Architecture extensions For Edge processing) | B | 083, 084, 085, 100, 120, 161, 162 |
| 8.8 | FS\_5GMS\_EXT (Study on 5G media streaming extensions) | B | 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 101, 104, 136, 155, 156, 163 |
| 8.9 | New Work / New Work Items and Study Items | B | 160 |
| 8.10 | Others including TEI | B |  |
| 8.11 | Review of the future work plan (next meeting dates, hosts) | B |  |
| 8.12 | Any Other Business | B |  |
| 8.13 | Close of the session | B |  |

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| --- | --- | --- | --- | --- |
| Number | **Title** | **Source** | **Author** | **Agenda Item** |
| [**S4-210003**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210003.zip) | Liaison from DVB on Phase I technical specification “DVB-MABR” | 3GPP MCC | Jayeeta Saha | 8.3 |
| [**S4-210004**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210004.zip) | Liaison on availability of DASH | 3GPP MCC | Jayeeta Saha | 8.3 |
| [**S4-210012**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210012.zip) | Essential corrections to Consumption Reporting APIs | BBC, Enensys Technology, Ericsson | Richard Bradbury | 8.5 |
| [**S4-210038**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210038.zip) | Replacement client architecture figures | BBC | Richard Bradbury | 8.5 |
| S4-210039 | Corrections on Procedures and APIs for Downlink and Uplink Streaming | Qualcomm Incorporated, BBC | Charles Lo | 8.5 |
| [**S4-210042**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210042.zip) | Proposed Corrections to TS 26.511 | Qualcomm Incorporated | Thomas Stockhammer | 8.5 |
| S4-210043 | Proposed Corrections to TS 26.512 | Qualcomm Incorporated | Thomas Stockhammer | 8.5 |
| [**S4-210044**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210044.zip) | 3GPP DASH – More relevant than ever? | Qualcomm Incorporated, Comcast, Orange, Dolby Laboratories | Thomas Stockhammer | 8.5 |
| [**S4-210082**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210082.zip) | Removal of Editor’s notes in 5GMS3 | HUAWEI Technologies Japan K.K. | Qi Pan | 8.5 |
| [**S4-210106**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210106.zip) | Draft LS on App ID Usage in NEF Related Service API | HUAWEI Technologies Japan K.K. | Qi Pan | 8.5 |
| [**S4-210116**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210116.zip) | Editorial Improvements | Samsung Electronics Co., Ltd | Sungryeul Rhyu | 8.5 |
| [**S4-210117**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210117.zip) | On editorial improvement on TS 26.501 | Samsung Electronics Co., Ltd | Sungryeul Rhyu | 8.5 |
| [**S4-210134**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210134.zip) | Corrections on Procedures and APIs for Downlink and Uplink Streaming | Qualcomm Incorporated, BBC, Ericsson LM | Charles Lo | 8.5 |
| [**S4-210135**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210135.zip) | Bug Fix on Main USD Schema in Annex J.1 | Qualcomm Incorporated | Charles Lo | 8.5 |
| [**S4-210140**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210140.zip) | 3GPP DASH – More relevant than ever? | Qualcomm Incorporated, Comcast, Orange, Dolby Laboratories, Tencent | Thomas Stockhammer | 8.5 |
| [**S4-210157**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210157.zip) | M5 definition in OpenAPI 3.0 format | Ericsson LM | Bo Burman | 8.5 |
| [**S4-210158**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210158.zip) | Various Corrections | Ericsson LM | Bo Burman | 8.5 |
| [**S4-210159**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210159.zip) | Discussion on PFD referencing within Dynamic Policy API | Ericsson LM | Bo Burman | 8.5 |
| S4-210045 | [FS\_5GMS\_Multicast] Key issue on re-use of MBMS service layer | Qualcomm Incorporated | Thomas Stockhammer | 8.6 |
| [**S4-210046**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210046.zip) | [FS\_5GMS\_Multicast] Client Architectures | Qualcomm Incorporated | Thomas Stockhammer | 8.6 |
| [**S4-210047**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210047.zip) | [FS\_5GMS\_Multicast] Hybrid use case | Qualcomm Incorporated | Thomas Stockhammer | 8.6 |
| [**S4-210048**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210048.zip) | [FS\_5GMS\_Multicast] Interworking with EPC and enTV | Qualcomm Incorporated | Thomas Stockhammer | 8.6 |
| [**S4-210079**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210079.zip) | pCR TR 26.802 - key issues on MABR support in 5GMS | TELUS, BBC, Qualcomm, Ericsson, Telecom Italia, Enensys | PENG TAN | 8.6 |
| [**S4-210080**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210080.zip) | [FS\_5GMS\_Multicast] Updated time and work plan | TELUS | PENG TAN | 8.6 |
| [**S4-210081**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210081.zip) | draft TR 26.802 | TELUS | PENG TAN | 8.6 |
| [**S4-210152**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210152.zip) | Review of xMB-C wrt User Plane properties | Ericsson LM, BBC | Bo Burman | 8.6 |
| [**S4-210153**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210153.zip) | New Key Issue on 'Collaboration and deployment scenarios' | Ericsson LM | Bo Burman | 8.6 |
| [**S4-210154**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210154.zip) | Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS | Ericsson LM | Bo Burman | 8.6 |
| [**S4-210083**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210083.zip) | Clarification of EAS discovery solutions during UE mobility in SA2 | HUAWEI Technologies Japan K.K. | Qi Pan | 8.7 |
| [**S4-210084**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210084.zip) | Overview of concluded edge application relocation solutions in SA2 | HUAWEI Technologies Japan K.K. | Qi Pan | 8.7 |
| [**S4-210085**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210085.zip) | Discussion for architecture mapping from SA6 to SA4 | HUAWEI Technologies Japan K.K. | Qi Pan | 8.7 |
| [**S4-210100**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210100.zip) | FS\_EMSA: Architecture update | Tencent | Iraj Sodagar | 8.7 |
| [**S4-210120**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210120.zip) | On EMSA architecture | Samsung Electronics Co., Ltd | Sungryeul Rhyu | 8.7 |
| [**S4-210161**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210161.zip) | EMSA architecture | Qualcomm Wireless GmbH | Imed Bouazizi | 8.7 |
| [**S4-210162**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210162.zip) | Split Rendering Use Case Walkthrough | Qualcomm Wireless GmbH | Imed Bouazizi | 8.7 |
| [**S4-210049**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210049.zip) | [FS\_5GMS-EXT] Key Topic Content Preparation | Qualcomm Incorporated | Thomas Stockhammer | 8.8 |
| [**S4-210050**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210050.zip) | [FS\_5GMS-EXT] Key Topic Traffic Identification | Qualcomm Incorporated | Thomas Stockhammer | 8.8 |
| [**S4-210051**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210051.zip) | [FS\_5GMS-EXT] Key Topic Additional / New transport protocols | Qualcomm Incorporated | Thomas Stockhammer | 8.8 |
| [**S4-210052**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210052.zip) | [FS\_5GMS-EXT] Key Topic Uplink media streaming | Qualcomm Incorporated | Thomas Stockhammer | 8.8 |
| [**S4-210053**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210053.zip) | [FS\_5GMS-EXT] Key Topic Background traffic | Qualcomm Incorporated | Thomas Stockhammer | 8.8 |
| [**S4-210054**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210054.zip) | [FS\_5GMS-EXT] Key Topic Content Aware Streaming | Qualcomm Incorporated | Thomas Stockhammer | 8.8 |
| [**S4-210055**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210055.zip) | [FS\_5GMS-EXT] Key Topic Network Event usage | Qualcomm Incorporated | Thomas Stockhammer | 8.8 |
| [**S4-210056**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210056.zip) | [FS\_5GMS-EXT] Key Topic Per-application-authorization | Qualcomm Incorporated | Thomas Stockhammer | 8.8 |
| [**S4-210057**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210057.zip) | [FS\_5GMS-EXT] Key Topic Support for encrypted and high-value content | Qualcomm Incorporated | Thomas Stockhammer | 8.8 |
| [**S4-210058**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210058.zip) | [FS\_5GMS-EXT] Key Topic Scalable distribution of unicast Live Services | Qualcomm Incorporated | Thomas Stockhammer | 8.8 |
| [**S4-210101**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210101.zip) | FS\_5GMS\_EXT: Content preparation deployment scenarios and functional description | Tencent | Iraj Sodagar | 8.8 |
| [**S4-210104**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210104.zip) | FS\_5GMS\_EXT: Proposed workplan | Tencent, Ericsson | Iraj Sodagar | 8.8 |
| [**S4-210136**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210136.zip) | First version of TR 26.804 "Study on 5G media streaming extensions" | Ericsson LM | Thorsten Lohmar | 8.8 |
| [**S4-210155**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210155.zip) | Collaboration Scenarios for Uplink streaming | Ericsson LM | Bo Burman | 8.8 |
| [**S4-210156**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210156.zip) | Discussion on Traffic Identification | Ericsson LM | Bo Burman | 8.8 |
| [**S4-210163**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210163.zip) | FS\_5GMS\_EXT: Uplink media streaming missing features | Tencent | Iraj Sodagar | 8.8 |
| [**S4-210160**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210160.zip) | New Study Item on Media Production over 5G NPNs | Ericsson LM, AT&T, BBC, B-Com, Dolby Laboratories Inc., EBU, Orange | Bo Burman | 8.9 |

## 8.3 Reports/Liaisons from other groups/meetings

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| [S4-210003](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210003.zip) | Liaison from DVB on Phase I technical specification “DVB-MABR” | 3GPP MCC | Jayeeta Saha |

**E-mail Discussion:**

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| --- | --- | --- |
| [[3GPP\_TSG\_SA\_WG4] [5.2; 003; Plenary; 01Feb 1500] Liaison letter to 3GPP SA4 concerning publication of phase 1 technical specification on ABR Multicast (“DVB-MABR”)](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=86753) | Richard Bradbury | Tue, 2 Feb 2021 12:23:51 +0000 |
| [[3GPP\_TSG\_SA\_WG4] [5.2; 003; Plenary; 01Feb 1500] Liaison letter to 3GPP SA4 concerning publication of phase 1 technical specification on ABR Multicast (“DVB-MABR”)](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=87108) | Thomas Stockhammer | Tue, 2 Feb 2021 12:27:20 +0000 |
| [[3GPP\_TSG\_SA\_WG4] [5.2; 003; Plenary; 01Feb 1500] Liaison letter to 3GPP SA4 concerning publication of phase 1 technical specification on ABR Multicast (“DVB-MABR”)](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=93765) | Richard Bradbury | Tue, 2 Feb 2021 13:04:33 +0000 |
| [[3GPP\_TSG\_SA\_WG4] [5.2; 003; Plenary; 01Feb 1500] Liaison letter to 3GPP SA4 concerning publication of phase 1 technical specification on ABR Multicast (“DVB-MABR”)](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=117174) | Thomas Stockhammer | Tue, 2 Feb 2021 21:34:08 +0000 |
| [[3GPP\_TSG\_SA\_WG4] [5.2; 003; Plenary; 01Feb 1500] Liaison letter to 3GPP SA4 concerning publication of phase 1 technical specification on ABR Multicast (“DVB-MABR”)](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=122203) | Richard Bradbury | Wed, 3 Feb 2021 10:33:12 +0000 |

**Presenter: Richard Bradbury (BBC)**

**Discussion:**

* Thomas: We need to understand the threat better. Use in MBMS for integrity check, should not deprecate to maintain backwards compatibility.
* Richard: 3GPP uses a secured network, so there are no major threats, it is more to use industry best practice.
* Cédric: Yes, it is good practice but do we have use-case? No improvement on FLUTE is planned for now.
* Frédéric: Replacing MD5 would be an improvement but the message would be that MD5 is broken.
* Imed: MD5 also used for file versioning in MBMS
* Richard: Content-MD5 is included in FLUTE RFC. Should it be a question to the IETF?
* Cédric: They have considerations but they don’t go forward.
* Frédéric: I think we should respond.
* Thomas: Is a CR required? Does DVB require this for their deployment?
* Richard: No. It is not a strong request
* Cédric: We need a use case before moving forward. I would be in favor of implementing this kind of extension.
* Frédéric: We don’t think there is any threat in MBMS deployment. Would DVB like 3GPP to add such an extension? I would like to manage it offline. Are there any volunteers? No, I will take the response.

**Decision:**

* This LS will be replied to.

**S4-210003** is replied to in S4-210225.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210003.zip)225 | Response Ls to Liaison from DVB on Phase I technical specification “DVB-MABR” | Dolby | Frédéric Gabin |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [8.3; 225; Block A; 8 Feb 1200] Draft reply LS to DVB on MABR | Gabin, Frederic | Fri, 5 Feb 2021 15:56:56 +0000 |
| [8.3; 225; Block A; 8 Feb 1200] Draft reply LS to DVB on MABR | Gabin, Frederic | Fri, 5 Feb 2021 23:28:36 +0000 |
| Re: [8.3; 225; Block A; 8 Feb 1200] Draft reply LS to DVB on MABR | Thomas Stockhammer | Sun, 7 Feb 2021 21:18:14 +0000 |
| Re: [8.3; 225; Block A; 8 Feb 1200] Draft reply LS to DVB on MABR | Gabin, Frederic | Mon, 8 Feb 2021 07:02:06 +0000 |
| Re: [8.3; 225; Block A; 8 Feb 1200] Draft reply LS to DVB on MABR | Gabin, Frederic | Mon, 8 Feb 2021 12:11:00 +0000 |
| Re: [8.3; 225; Block A; 8 Feb 1200] Draft reply LS to DVB on MABR | Richard Bradbury | Mon, 8 Feb 2021 14:21:43 +0000 |

**Decision:**

* Revised via e-mail.

**S4-210225** is revised to S4-210310.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210003.zip)310 | Response Ls to Liaison from DVB on Phase I technical specification “DVB-MABR” | Dolby | Frédéric Gabin |

**E-mail Discussion:**

See S4-210225.

**Presenter: Frédéric Gabin (Dolby)**

**Decision:**

* Goes to SA4 closing plenary for approval.

**S4-210310** is agreed and goes to SA4 plenary.

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| [S4-210004](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210004.zip) | Liaison on availability of DASH | 3GPP MCC | Jayeeta Saha |

**E-mail Discussion:**

None triggered

**Presenter: Frédéric Gabin (Dolby)**

**Discussion:**

* Thomas: We might copy SCTE with our LS to JTC1 on DASH (S4-210140).

**Decision:**

* Noted.

**S4-210004** is noted.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210003.zip)318 | Reply LS on 5MBS progress and issues to address | Dolby | Frédéric Gabin |

**Decision:**

* Postponed. Will be reviewed at the next SA4 meeting.

**S4-210318** is postponed.

## 8.4 Issues for immediate consideration

## 8.5 CRs to features in Release 16 and earlier

### 8.5.1 5GMSA

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| [S4-210012](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210012.zip) | Essential corrections to Consumption Reporting APIs | BBC, Enensys Technology, Ericsson | Richard Bradbury |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[8.5; 012; Block A; 02Feb 1200] Draft CR to TS 26.512 on Essential corrections to Consumption Reporting APIs (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=6871) | Gabin, Frederic | Mon, 1 Feb 2021 12:51:48 +0000 |
| [[8.5; 012; Block A; 02Feb 1200] Draft CR to TS 26.512 on Essential corrections to Consumption Reporting APIs (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=16915) | Richard Bradbury | Mon, 1 Feb 2021 13:16:13 +0000 |
| [[8.5; 012; Block A; 02Feb 1200] Draft CR to TS 26.512 on Essential corrections to Consumption Reporting APIs (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=94671) | Gabin, Frederic | Tue, 2 Feb 2021 13:12:46 +0000 |

**Decision:**

* Agreed via e-mail.

**S4-210012** is agreed.

### 8.5.2 5GMS3

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| [S4-210038](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210038.zip) | Replacement client architecture figures | BBC | Richard Bradbury |

**E-mail Discussion:**

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| [[8.5; 038; Block A; 02Feb 1200] Draft CR to TS 26.512 on Replacement client architecture figures (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=7626) | Gabin, Frederic | Mon, 1 Feb 2021 12:54:23 +0000 |
| [[8.5; 038; Block A; 02Feb 1200] Draft CR to TS 26.512 on Replacement client architecture figures (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=50130) | Charles Lo | Mon, 1 Feb 2021 18:59:40 +0000 |
| [[8.5; 038; Block A; 02Feb 1200] Draft CR to TS 26.512 on Replacement client architecture figures (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=51066) | Charles Lo | Mon, 1 Feb 2021 19:27:30 +0000 |
| [[8.5; 038; Block A; 02Feb 1200] Draft CR to TS 26.512 on Replacement client architecture figures (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=95990) | Gabin, Frederic | Tue, 2 Feb 2021 13:14:10 +0000 |

**Decision:**

* Agreed via e-mail.

**S4-210038** is agreed.

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| [S4-210042](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210042.zip) | Proposed Corrections to TS 26.511 | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.5; 042; Block A; 02Feb 1200] Draft CR to TS 26.501 on Proposed Corrections (Rel-16)](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=1611) | Gabin, Frederic | Mon, 1 Feb 2021 12:17:01 +0000 |
| [[8.5; 042; Block A; 02Feb 1200] Draft CR to TS 26.501 on Proposed Corrections (Rel-16)](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=2448) | Richard Bradbury | Mon, 1 Feb 2021 12:22:00 +0000 |
| [[8.5; 042; Block A; 02Feb 1200] Draft CR to TS 26.501 on Proposed Corrections (Rel-16)](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=92253) | Gabin, Frederic | Tue, 2 Feb 2021 12:58:01 +0000 |
| [[8.5; 042; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=5682) | Gabin, Frederic | Mon, 1 Feb 2021 12:46:09 +0000 |
| [[8.5; 042; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=54107) | Ahmed Hamza | Mon, 1 Feb 2021 21:02:10 +0000 |
| [[8.5; 042; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=80464) | Gabin, Frederic | Tue, 2 Feb 2021 11:58:15 +0000 |
| [[8.5; 042; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=81360) | Gabin, Frederic | Tue, 2 Feb 2021 12:00:12 +0000 |
| [[8.5; 042; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=3469) | Gabin, Frederic | Mon, 1 Feb 2021 12:22:25 +0000 |
| [[8.5; 042; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=4275) | Richard Bradbury | Mon, 1 Feb 2021 12:27:18 +0000 |
| [[8.5; 042; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=9539) | Thorsten Lohmar | Mon, 1 Feb 2021 12:58:22 +0000 |
| [[8.5; 042; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=14738) | Sungryeul Rhyu | Mon, 1 Feb 2021 22:13:35 +0900 |
| Re: [8.5; 042; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement | Gabin, Frederic | Tue, 2 Feb 2021 11:58:15 +0000 |
| Re: [8.5; 042; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement | Gabin, Frederic | Tue, 2 Feb 2021 12:00:12 +0000 |
| Re: [8.2; 042; Block A; 02Feb 1200] Draft CR to TS 26.501 on Proposed Corrections (Rel-16) | Gabin, Frederic | Tue, 2 Feb 2021 12:58:01 +0000 |
| Re: [8.2; 042; Block A; 02Feb 1200] Draft CR to TS 26.511 on Proposed Corrections (Rel-16) | Thomas Stockhammer | Wed, 3 Feb 2021 21:55:07 +0000 |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Thomas: Note that this is 26.511 rather than 26.501.
* Fred: Needs turning into a formal CR. More time needed to review?

**Decision:**

* Thomas prepares a formal CR to 26.511.

**S4-210042** is revised to S4-210228.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210042.zip)228 | CR to TS 26.511 on Various Corrections to 5GMS Codecs and Formats (Rel-16) | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210042.

**Presenter: Thomas Stockhammer**

**Discussion:**

* Richard: This is a very complex change.
* Frédéric: We can support Jayeeta.

**Decision:**

* Revised to remove “Draft” in the title. The revision (246) is agreed and will go to the plenary.

**S4-210228** is revised to S4-210246.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210042.zip)246 | CR to TS 26.511 on Various Corrections to 5GMS Codecs and Formats (Rel-16) | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210042.

**Decision:**

* Agreed and will go to the plenary.

**S4-210246** is agreed and goes to the plenary.

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| [S4-210082](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210082.zip) | Removal of Editor’s notes in 5GMS3 | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

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| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=4513) | Gabin, Frederic | Mon, 1 Feb 2021 12:31:28 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=5385) | Richard Bradbury | Mon, 1 Feb 2021 12:44:17 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=19233) | Thorsten Lohmar | Mon, 1 Feb 2021 13:25:41 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=48587) | panqi (E) | Mon, 1 Feb 2021 16:10:38 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=51623) | Charles Lo | Mon, 1 Feb 2021 19:36:39 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=52649) | Imed Bouazizi | Mon, 1 Feb 2021 19:43:35 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=53413) | Imed Bouazizi | Mon, 1 Feb 2021 19:51:41 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=54945) | Thorsten Lohmar | Mon, 1 Feb 2021 21:25:20 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=55881) | Thorsten Lohmar | Mon, 1 Feb 2021 21:34:38 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=58505) | panqi (E) | Tue, 2 Feb 2021 02:55:09 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=60277) | panqi (E) | Tue, 2 Feb 2021 03:09:34 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=61176) | panqi (E) | Tue, 2 Feb 2021 03:20:56 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=69670) | Thorsten Lohmar | Tue, 2 Feb 2021 09:34:01 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=73861) | panqi (E) | Tue, 2 Feb 2021 10:21:51 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=83001) | Richard Bradbury | Tue, 2 Feb 2021 12:16:44 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=90745) | panqi (E) | Tue, 2 Feb 2021 12:52:31 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=106443) | Thorsten Lohmar | Tue, 2 Feb 2021 14:50:09 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=109925) | panqi (E) | Tue, 2 Feb 2021 15:03:36 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=111264) | Richard Bradbury | Tue, 2 Feb 2021 15:10:41 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=111562) | panqi (E) | Tue, 2 Feb 2021 15:31:44 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=113681) | Thorsten Lohmar | Tue, 2 Feb 2021 17:33:05 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=117898) | panqi (E) | Wed, 3 Feb 2021 03:47:43 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=118722) | Charles Lo | Wed, 3 Feb 2021 04:59:10 +0000 |
| [[8.5; 082/159; Block A; 02Feb 1200] CR to TS 26.512 on Removal of editor’s notes about the dynamic policy invocation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=119486) | Thorsten Lohmar | Wed, 3 Feb 2021 07:11:55 +0000 |

**Discussion:**

* Fred: Proposal is to revise to a new TDoc number and postpone until SA4#113-e, pending response to our LS to CT3. (Note that this will need to be resubmitted by the author.)

**Decision:**

* Revised and treatment of the revision (230) is postponed to SA4#113-e.

**S4-210082** is revised to S4-210230.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210082.zip)230 | CR to TS 26.512 0003 Removal of Editor’s notes in 5GMS3 (Rel-16) | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

See S4-210082.

**Decision:**

* Postponed to SA4#113-e.

**S4-210230** is postponed.

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| [S4-210159](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210159.zip) | Discussion on PFD referencing within Dynamic Policy API | Ericsson LM | Bo Burman |

**E-mail Discussion:**

[See S4-210082](#c3fftvuziga2)

**Decision:**

* Noted.

**S4-210159** is noted.

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| [S4-210106](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210106.zip) | Draft LS on App ID Usage in NEF Related Service API | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

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| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=14011) | Gabin, Frederic | Mon, 1 Feb 2021 13:09:20 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=74912) | panqi (E) | Tue, 2 Feb 2021 10:24:49 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=78779) | Thorsten Lohmar | Tue, 2 Feb 2021 11:24:18 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=94409) | Richard Bradbury | Tue, 2 Feb 2021 13:11:58 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=103922) | panqi (E) | Tue, 2 Feb 2021 13:27:12 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=109226) | Gabin, Frederic | Tue, 2 Feb 2021 15:02:30 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=123689) | Thorsten Lohmar | Wed, 3 Feb 2021 11:16:26 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=124778) | Richard Bradbury | Wed, 3 Feb 2021 11:49:54 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=126084) | Thorsten Lohmar | Wed, 3 Feb 2021 12:56:24 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=128435) | Gabin, Frederic | Wed, 3 Feb 2021 13:49:05 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=130092) | panqi (E) | Wed, 3 Feb 2021 14:01:25 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=131779) | Gabin, Frederic | Wed, 3 Feb 2021 14:12:27 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=133293) | panqi (E) | Wed, 3 Feb 2021 14:18:15 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=140263) | Charles Lo | Wed, 3 Feb 2021 14:33:25 +0000 |
| [[8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=142402) | panqi (E) | Wed, 3 Feb 2021 14:53:40 +0000 |
| Re: [8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement | panqi (E) | Wed, 3 Feb 2021 15:56:15 +0000 |
| Re: [8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement | panqi (E) | Thu, 4 Feb 2021 12:42:54 +0000 |
| Re: [8.5; 106; Block A; 02Feb 1200] Draft LS on App ID Usage in NEF Related Service API -> for agreement | panqi (E) | Fri, 5 Feb 2021 12:44:18 +0000 |

**Presenter: Qi Pan**

**Discussion:**

* Thorsten: Something is missing at CT3. We need to clarify the use case and CT3 needs to clarify APIs on its side. Does the group agree to send an LS?
* Imed: We are interjecting with CT3. What is the use case?
* Imed: The NEF mapping is outside SA4 scope.
* Thorsten: We need to make clear which APIs the 5GMS AF needs to call.
* Imed: Ncpf\* APIs.
* Thorsten: How do we provide the parameters, and to do that we need to understand how they are mapped by the PFD management API. Two-phases: first provision the PFD, and then apply it as a second step.
* Fred: Related to S4-210159.
* Thorsten: Offline phone conference possible? Later today?
* Fred: Yes.
* Imed: Yes. Tomorrow morning is preferred.

**Decision:**

* Revised by e-mail to S4-210235.

**S4-210106** is revised to S4-210235.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210106.zip)235 | Draft LS on App ID Usage in NEF Related Service API | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

See S4-210106.

**Presenter: Qi Pan (Huawei)**

**Discussion:**

* Fred: Please upload to the inbox in a zip.
* Qi Pan: Suggests extending e-mail discussion to give Imed more time to check.
* Imed: I don’t understand why SA4 tells them to solve this internal problem.
* Thorsten: SA4 uses the domain name. The only way to use a domain name is to use the PFD management API.
* Imed: No. Not the only way. AF session with QoS contains a domain name too.
* Thorsten: I can’t find that.
* Thorsten: Maybe reformulate the question to ask SA2 how to use that API with a domain name.
* Imed: Confusing naming of APIs. Should they be AF or AS?
* Fred: Please continue producing revisions offline.

**Decision:**

* Revised via e-mail.

**S4-210235** is revised to S4-210311.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210106.zip)311 | Draft LS on App ID Usage in NEF Related Service API | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

See S4-210106.

**Presenter: Qi Pan (Huawei)**

**Discussion:**

* Thorsten: Would it make sense to organize unofficial conf calls with SA2 delegates?
* Frédéric: Offline is good enough.
* Qi: Maybe we can initiate e-mail thread.
* Frédéric: It seems better to agree the LS and invite further discussion by e-mail.

**Decision:**

* Agreed and goes to the plenary for approval.

**S4-210311** is agreed and goes to the plenary.

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| [S4-210116](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210116.zip) | Editorial Improvements | Samsung Electronics Co., Ltd | Sungryeul Rhyu |

**E-mail Discussion:**

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| [[8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=29048) | Gabin, Frederic | Mon, 1 Feb 2021 13:52:09 +0000 |
| [[8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=30680) | Gabin, Frederic | Mon, 1 Feb 2021 13:53:51 +0000 |
| [[8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=39570) | Charles Lo | Mon, 1 Feb 2021 14:56:55 +0000 |
| [[8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=45847) | Richard Bradbury | Mon, 1 Feb 2021 15:35:26 +0000 |
| [[8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=72410) | Richard Bradbury | Tue, 2 Feb 2021 09:55:04 +0000 |
| [[8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=59358) | Sungryeul Rhyu | Tue, 2 Feb 2021 11:55:37 +0900 |
| [[8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=88628) | Richard Bradbury | Tue, 2 Feb 2021 12:44:28 +0000 |
| [[8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=93040) | Gabin, Frederic | Tue, 2 Feb 2021 13:02:42 +0000 |
| [[8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=63003) | Sungryeul Rhyu | Tue, 2 Feb 2021 17:30:50 +0900 |
| [[8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=76640) | Sungryeul Rhyu | Tue, 2 Feb 2021 19:38:06 +0900 |
| Re: [8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements | Richard Bradbury | Wed, 3 Feb 2021 17:58:31 +0000 |
| Re: [8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements | Sungryeul Rhyu | Thu, 4 Feb 2021 02:12:16 +0900 |
| Re: [8.5; 116/117; Block A; 02Feb 1200] Draft CR to TS 26.501 on Editorial Improvements | Sungryeul Rhyu | Thu, 4 Feb 2021 09:42:48 +0900 |

**Presenter: Sungryeul Rhyu**

**Discussion:**

* Fred: Seems agreeable. Let’s allocate a formal CR. Needs to be Category F (essential correction) and not D.

**Decision:**

* A formal CR is allocated.

S4-210116 is revised to S4-210229.

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| [S4-210117](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210117.zip) | On editorial improvement on TS 26.501 | Samsung Electronics Co., Ltd | Sungryeul Rhyu |

**E-mail Discussion:**

[See S4-210116](#qhvi2ds2h1za)

**Decision:**

* Noted via e-mail.

**S4-210117** is noted.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210116.zip)229 | CR to TS 26.501 0027 on clarifications and corrections (Rel-16) | Samsung Electronics Co., Ltd | Sungryeul Rhyu |

**E-mail Discussion:**

**Presenter: Sungryeul Rhyu, Samsung**

**Discussion:**

* None

**Decision:**

* Agreed and goes to the plenary.

**S4-210229** is agreed and goes to the plenary.

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| [S4-210134](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210134.zip) | Corrections on Procedures and APIs for Downlink and Uplink Streaming | Qualcomm Incorporated, BBC, Ericsson LM | Charles Lo |

**E-mail Discussion:**

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| [[8.5; 134; Block A; 02Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=8598) | Gabin, Frederic | Mon, 1 Feb 2021 12:57:51 +0000 |
| [[8.5; 134; Block A; 02Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=17921) | Richard Bradbury | Mon, 1 Feb 2021 13:19:39 +0000 |
| [[8.5; 134; Block A; 02Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=24849) | Thorsten Lohmar | Mon, 1 Feb 2021 13:38:52 +0000 |
| [[8.5; 134; Block A; 02Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=36901) | Thomas Stockhammer | Mon, 1 Feb 2021 14:39:33 +0000 |
| [[8.5; 134; Block A; 02Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=39258) | Richard Bradbury | Mon, 1 Feb 2021 14:54:13 +0000 |
| [[8.5; 134; Block A; 02Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=42169) | Thorsten Lohmar | Mon, 1 Feb 2021 15:23:40 +0000 |
| [[8.5; 134; Block A; 02Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=49504) | Richard Bradbury | Mon, 1 Feb 2021 16:59:31 +0000 |
| [[8.5; 134; Block A; 02Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=49817) | Richard Bradbury | Mon, 1 Feb 2021 17:20:47 +0000 |
| [[8.5; 134; Block A; 02Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=57285) | Charles Lo | Tue, 2 Feb 2021 01:21:21 +0000 |
| [[8.5; 134; Block A; 03Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=107088) | Gabin, Frederic | Tue, 2 Feb 2021 15:01:31 +0000 |
| [[8.5; 134; Block A; 03Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=113368) | Richard Bradbury | Tue, 2 Feb 2021 16:39:30 +0000 |
| [[8.5; 134; Block A; 03Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=114532) | Charles Lo | Tue, 2 Feb 2021 18:45:03 +0000 |
| [[8.5; 134; Block A; 03Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=115696) | Richard Bradbury | Tue, 2 Feb 2021 19:14:58 +0000 |
| [[8.5; 134; Block A; 03Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=116009) | Richard Bradbury | Tue, 2 Feb 2021 19:16:30 +0000 |
| [[8.5; 134; Block A; 03Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=116322) | Charles Lo | Tue, 2 Feb 2021 19:18:56 +0000 |
| [[8.5; 134; Block A; 03Feb 1200] Draft CR to TS 26.512 on Corrections on Procedures and APIs for Downlink and Uplink Streaming (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=126761) | Gabin, Frederic | Wed, 3 Feb 2021 13:41:07 +0000 |

**Decision:**

* Revised according to S4-210134r01 BBC\_QC by e-mail and the revision is agreed.

**S4-210134** is revised to S4-210232

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210134.zip)232 | Corrections on Procedures and APIs for Downlink and Uplink Streaming | Qualcomm Incorporated, BBC, Ericsson LM | Charles Lo |

**E-mail Discussion:**

* See S4-210134

**Decision:**

* Agreed via e-mail.

**S4-210232** is agreed

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| [S4-210135](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210135.zip) | Bug Fix on Main USD Schema in Annex J.1 | Qualcomm Incorporated | Charles Lo |

**E-mail Discussion:**

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| [[8.5; 135; Block A; 02Feb 1200] CR to TS 26.346 on Bug Fix on Main USD Schema in Annex J.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=764) | Gabin, Frederic | Mon, 1 Feb 2021 12:13:41 +0000 |
| [[8.5; 135; Block A; 02Feb 1200] CR to TS 26.346 on Bug Fix on Main USD Schema in Annex J.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=79694) | Gabin, Frederic | Tue, 2 Feb 2021 11:54:00 +0000 |

**Decision:**

* Agreed via e-mail.

**S4-210135** is agreed and goes to the plenary.

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| [S4-210140](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210140.zip) | 3GPP DASH – More relevant than ever? | Qualcomm Incorporated, Comcast, Orange, Dolby Laboratories, Tencent | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.5; 044->140; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=78507) | Richard Bradbury | Tue, 2 Feb 2021 11:19:12 +0000 |
| [[8.5; 140; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=21610) | Gabin, Frederic | Mon, 1 Feb 2021 13:30:55 +0000 |
| [[8.5; 140; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=27990) | Thorsten Lohmar | Mon, 1 Feb 2021 13:46:42 +0000 |
| [[8.5; 140; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=82099) | Gabin, Frederic | Tue, 2 Feb 2021 12:03:14 +0000 |
| [[8.5; 140; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=85891) | Thorsten Lohmar | Tue, 2 Feb 2021 12:21:56 +0000 |
| [[8.5; 140; Block A; 02Feb 1200] 3GPP DASH – More relevant than ever? -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=91473) | Gabin, Frederic | Tue, 2 Feb 2021 12:53:36 +0000 |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Thorsten: Publicly available in general doesn’t necessarily mean free of charge, but it in this case, the ISO Publicly Available Specifications page contains free publications.
* Frédéric: I see positive views over e-mails.
* Frédéric: No copyright issues reverting to the previous state in older Releases. We own that text. But for text evolved in MPEG since that point, we would need individual company contributions rather than simply copying the ISO/IEC normative text.
* Gaelle: Would it need to be the company that originally contributed to MPEG?
* Thomas: Same question. To bring this on the same par seems unrealistic.
* Fred: Contributing companies to MPEG would need to give their consent for us to be safe.
* Thomas: Can a company give its copyright to ISO when it contributes?
* Thorsten: Copyright on cover says the SDO name.
* Fred: But maybe not exclusive copyright assignment.
* Thomas: I could draft an LS saying “3GPP will consider…”.
* Fred: Proposal agreed in principle. Could be copied to the SCTE (as a response to their incoming LS) and other organisations listed in that (CTA-Wave, DASH-IF, ATSC, DVB).
* Thomas: Is JTC1 the right level to target this?
* Gaelle: Yes, encourage your company delegates to support it.
* Iraj: Send to SC29 as well?
* Gaelle: Yes, in copy, for their July meeting.

**Decision:**

* Revised. The revision will be agreed without further presentation.
* Thomas prepares the LS (S4-210227) with SC29 in copy and adds Ericsson to the source.

**S4-210140** is revised to S4-210226.

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| [S4-210226](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Inbox/S4-210226.zip) | 3GPP DASH – More relevant than ever? | Qualcomm Incorporated, Comcast, Orange, Dolby Laboratories, Tencent | Thomas Stockhammer |

**Decision:**

* Agreed without further presentation

**S4-210226** is agreed.

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| [S4-21022](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Inbox/S4-210226.zip)7 | Draft LS to ISO/IEC JTC1 on DASH | Qualcomm Incorporated, Comcast, Orange, Dolby Laboratories, Tencent | Thomas Stockhammer |

**E-mail Discussion:**

None triggered.

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Thomas: Typo in 2 Actions: pposive instead of positive.
* Iraj: Do we need to mention ISO BMFF as well? Similar problems. Should be freely available too.
* Iraj: Might be easier to concentrate on the case for the DASH specification in the actions.
* Frédéric: Free accessibility of DASH specifications, not technologies.
* Richard: Typo in 1 Overall description: invalids instead of invalidates.
* Gunnar: In the 1st bullet of 2 Actions, maybe we need to modify “ISO/IEC JTC1 the publication of” in “that ISO/IEC JTC1 publishes the…”. Another modification done online in the second bullet will also have to be integrated.

**Decision:**

* Revised to take in consideration online modifications. The revision (247) is agreed and will go to the plenary.

**S4-210227** is revised to S4-210247.

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| [S4-2102](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Inbox/S4-210226.zip)47 | [Draft] LS on DASH Specification Availability | Qualcomm Incorporated, Comcast, Orange, Dolby Laboratories, Tencent | Thomas Stockhammer |

**Decision:**

* Revised.

**S4-210247** is revised to S4-210293.

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| [S4-2102](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Inbox/S4-210226.zip)93 | [Draft] LS on DASH Specification Availability | Qualcomm Incorporated, Comcast, Orange, Dolby Laboratories, Tencent | Thomas Stockhammer |

**Decision:**

* Approved.

**S4-210293** is approved. .

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| [S4-210157](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210157.zip) | M5 definition in OpenAPI 3.0 format | Ericsson LM | Bo Burman |

**E-mail Discussion:**

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| [[8.5; 157; Block A; 02Feb 1200] Draft CR to TS 26.512 on M5 definition in OpenAPI 3.0 format (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=10677) | Gabin, Frederic | Mon, 1 Feb 2021 12:59:47 +0000 |
| [[8.5; 157; Block A; 02Feb 1200] Draft CR to TS 26.512 on M5 definition in OpenAPI 3.0 format (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=13074) | Gabin, Frederic | Mon, 1 Feb 2021 13:06:05 +0000 |
| [[8.5; 157; Block A; 02Feb 1200] Draft CR to TS 26.512 on M5 definition in OpenAPI 3.0 format (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=22672) | Richard Bradbury | Mon, 1 Feb 2021 13:33:17 +0000 |
| [[8.5; 157; Block A; 02Feb 1200] Draft CR to TS 26.512 on M5 definition in OpenAPI 3.0 format (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=96922) | Gabin, Frederic | Tue, 2 Feb 2021 13:17:02 +0000 |

**Decision:**

* Agreed via e-mail.

**S4-210157** is agreed.

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| [S4-210158](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210158.zip) | Various Corrections | Ericsson LM | Bo Burman |

**E-mail Discussion:**

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| [[8.5; 158; Block A; 02Feb 1200] Draft CR to TS 26.512 on various corrections (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=11460) | Gabin, Frederic | Mon, 1 Feb 2021 13:02:06 +0000 |
| [[8.5; 158; Block A; 02Feb 1200] Draft CR to TS 26.512 on various corrections (Rel-16) -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=18972) | Richard Bradbury | Mon, 1 Feb 2021 13:25:22 +0000 |
| [[8.5; 158; Block A; 02Feb 1200] Draft CR to TS 26.512 on various corrections (Rel-16) -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=34176) | Thorsten Lohmar | Mon, 1 Feb 2021 14:20:25 +0000 |
| [[8.5; 158; Block A; 03Feb 1200] Draft CR to TS 26.512 on various corrections (Rel-16) -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=107851) | Gabin, Frederic | Tue, 2 Feb 2021 15:01:58 +0000 |
| [[8.5; 158; Block A; 03Feb 1200] Draft CR to TS 26.512 on various corrections (Rel-16) -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=112469) | Gunnar Heikkilä | Tue, 2 Feb 2021 15:38:02 +0000 |
| [[8.5; 158; Block A; 03Feb 1200] Draft CR to TS 26.512 on various corrections (Rel-16) -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=121315) | Thorsten Lohmar | Wed, 3 Feb 2021 10:01:28 +0000 |
| [[8.5; 158; Block A; 03Feb 1200] Draft CR to TS 26.512 on various corrections (Rel-16) -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=124515) | Richard Bradbury | Wed, 3 Feb 2021 11:22:38 +0000 |
| [[8.5; 158; Block A; 03Feb 1200] Draft CR to TS 26.512 on various corrections (Rel-16) -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=127617) | Gabin, Frederic | Wed, 3 Feb 2021 13:42:49 +0000 |

**Presenter: Thorsten Lohmar (Ericsson)**

**Discussion:**

* Thorsten: Summary of changes is still wrong in r01.
* Frédéric: Why do we put this NOTE page 6.
* Gunnar: Multiple servers was originally for load balancing of OMA servers.
* Fred: Maybe it’s good enough for now?
* Thorsten: Need to take a revision to capture the latest BBC proposal.

**Decision:**

* Revised to S4-210241. S4-210241 is agreed without presentation.

**S4-210158** is revised to S4-210241.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210158.zip)241 | Various Corrections | Ericsson LM | Bo Burman |

**E-mail Discussion:**

See S4-210158.

**Decision:**

* Agreed without presentation.

**S4-210241** is agreed.

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| [S4-2101](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210158.zip)74 | CR on OpenAPI Implementation of m1 interface | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.5; 174; Block A; 02Feb 1200] CR to TS 26.512 on OpenAPI Implementation of m1 interface (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=12224) | Gabin, Frederic | Mon, 1 Feb 2021 13:04:37 +0000 |
| [[8.5; 174; Block A; 02Feb 1200] CR to TS 26.512 on OpenAPI Implementation of m1 interface (Rel-16) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=97862) | Gabin, Frederic | Tue, 2 Feb 2021 13:19:06 +0000 |
| Re: [8.5; 174->292; Block A; 02Feb 1200] CR to TS 26.512 on OpenAPI Implementation of m1 interface (Rel-16) -> for agreement | Richard Bradbury | Thu, 4 Feb 2021 17:29:37 +0000 |

**Decision:**

* Revised.

**S4-210174** is revised to S4-210292.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210158.zip)292 | CR on OpenAPI Implementation of m1 interface | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210174.

**Decision:**

* Postponed.

**S4-210292** is postponed.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210158.zip)231 | Draft CR to TS 26.512 Corrections on Procedures and APIs for Downlink and Uplink Streaming | Ericsson LM, BBC, Enensys, Qualcomm. | Thorsten Lohmar |

**Presenter: Thorsten Lohmar**

**Discussion:**

* Richard: Remaining comments are for MCC.
* Frédéric: We need a formal CR.

**Decision:**

* Revised to S4-210317, a formal CR. 317 will go to the plenary.

**S4-210231** is revised to S4-210317.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210158.zip)317 | CR to TS 26.512 Corrections on Procedures and APIs for Downlink and Uplink Streaming | Ericsson LM, BBC, Enensys, Qualcomm. | Thorsten Lohmar |

**Decision:**

* Goes to the plenary.

**S4-210317** goes to the plenary.

### 8.5.3 Others

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210158.zip)296 | Discussion on 3GPP OpenAPI documentation guidelines | Ericsson LM | Thorsten Lohmar |

**E-mail Discussion:**

None Triggered.

**Presenter: Thorsten Lohmar**

**Discussion:**

* Gunnar: How do you know the yaml version?
* Richard: The master-branch only contains the latest snapshot.
* Imed: It seems that beside the file naming convention we have anything else to change.
* Thorsten: We are missing some of the guidelines but we are in the good direction.
* Richard: We also have an issue with the common data type. There should be one data type model.
* Thorsten: M5 has to be removed to the CR.

**Decision:**

* Revised.

**S4-210296** is revised to S4-210309.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210309.zip)309 | Discussion on 3GPP OpenAPI documentation guidelines | Ericsson LM | Thorsten Lohmar |

**E-mail Discussion:**

See S4-210296.

**Discussion:**

* We will have the power to agree the CR to add OpenAPI to TS 26.512 Annex C during telcos.

**Decision:**

* Time is missing. 309 is noted.

**S4-210309** is noted.

## 

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

WID: [SP\_200055](http://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_87E_Electronic/Docs/SP-200055.zip)

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| [S4-210046](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210046.zip) | [FS\_5GMS\_Multicast] Client Architectures | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=18232) | Gabin, Frederic | Mon, 1 Feb 2021 13:23:55 +0000 |
| [[8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=27742) | Richard Bradbury | Mon, 1 Feb 2021 13:46:26 +0000 |
| [[8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=34934) | Thorsten Lohmar | Mon, 1 Feb 2021 14:27:02 +0000 |
| [[8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=85124) | Thomas Stockhammer | Tue, 2 Feb 2021 12:18:06 +0000 |
| [[8.6; 046; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=99116) | Gabin, Frederic | Tue, 2 Feb 2021 13:22:29 +0000 |

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| [[8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=122559) | Thomas Stockhammer | Wed, 3 Feb 2021 11:07:21 +0000 |
| [[8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=125040) | Thomas Stockhammer | Wed, 3 Feb 2021 12:52:58 +0000 |
| [[8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=132523) | Gabin, Frederic | Wed, 3 Feb 2021 14:15:37 +0000 |
| [[8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=142151) | Richard Bradbury | Wed, 3 Feb 2021 14:47:07 +0000 |
| [[8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=143227) | Gabin, Frederic | Wed, 3 Feb 2021 14:53:58 +0000 |
| [[8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=144045) | Thomas Stockhammer | Wed, 3 Feb 2021 15:17:29 +0000 |
| Re: [8.6; 046; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement | Thomas Stockhammer | Sun, 7 Feb 2021 12:19:29 +0000 |
| Re: [8.6; 046->236-249; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement | Richard Bradbury | Mon, 8 Feb 2021 11:10:31 +0000 |
| Re: [8.6; 046->236-249; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement | Thomas Stockhammer | Mon, 8 Feb 2021 11:56:00 +0000 |
| [Re: [8.6; 046->236-249; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Client Architectures -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&O=D&P=56958) | Richard Bradbury | Tue, 9 Feb 2021 14:13:46 +0000 |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Thorsten: Very good. One question: Should MBS-7 be splitted in 2 interfaces: one HTTP and one API?
* Thomas: Possible use of MPEG SAND.
* Thomas: Where does the manifest terminate? Player or managed by MBSU?
* Thorsten: Supports adding this to the TR. Massage it into a Key Issue before end of SA4#112-e.
* Cédric: Should we add media player in first two figures (non-5GMS cases).
* Thomas: It could be any application, even Mission Critical. The media player would be part of the MBS-Aware Application. Similar to MBMS Client. Reluctant to add a media player.
* Cédric: Are we considering deployment with a DASH player but no 5GMS?
* Thomas: Yes, but then it’s just part of the application.
* Thomas: Suggests adding it into the discussion points below, and maybe adding another figure.
* Charles: Control aspects of API via MBS-6?
* Thomas: Yes, but could look different in the future. Could be in URL, for example.
* Fred: At stage 2, it’s just the architecture and reference points.
* Richard: Is there a case where a media player makes a request over MBS-7 and fallbacks to MBS-6 if failed?
* Thomas: What does hybrid means? I don’t have an answer. E.g. MBS-4 could support multicast and unicast, which would allow file repair. This issue needs to be studied.
* Richard: There is a 3rd option where unicast requests terminate at AS.
* Thomas: We can’t solve this in the architecture.
* Cédric: Another scenario B2 from Thorsten is not fully aligned with figure 1: The NEF is in the MBSF and the application provider.
* Thomas: The network is for the network guys.
* Thorsten: What is the way forward?
* Thomas: Will take feedback into account and upload 236 and then inform the group by e-mail.

**Decision:**

* Revised to S4-210236 (based on revision 1).

**S4-210046** is revised to S4-210236.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210046.zip)236 | [FS\_5GMS\_Multicast] Client Architectures | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210046.

**Presenter: Thomas Stockhammer (Qualcomm)**

**Decision:**

* Revised.

**S4-210236** is revised to S4-210249.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210046.zip)249 | [FS\_5GMS\_Multicast] Client Architectures | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210046.

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Richard: I proposed some fixes to the diagram.
* Thorsten: I have one comment about the unicast in the MBSU.
* Thomas: I am not dealing with the network.
* Thorsten: We should take time to avoid unicast on the MBSU side.

**Decision:**

* Agreed. The rapporteur will add it to the TR.

**S4-210249** is agreed.

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| [S4-210047](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210047.zip) | [FS\_5GMS\_Multicast] Hybrid use case | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[8.6; 047; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=19914) | Gabin, Frederic | Mon, 1 Feb 2021 13:27:21 +0000 |
| [[8.6; 047; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=31336) | Richard Bradbury | Mon, 1 Feb 2021 13:55:40 +0000 |
| [[8.6; 047; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=32437) | Thorsten Lohmar | Mon, 1 Feb 2021 14:09:17 +0000 |
| [[8.6; 047; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=84286) | Thomas Stockhammer | Tue, 2 Feb 2021 12:16:49 +0000 |
| [[8.6; 047; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=100204) | Gabin, Frederic | Tue, 2 Feb 2021 13:22:52 +0000 |
| [[8.6; 047; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=134174) | Gabin, Frederic | Wed, 3 Feb 2021 14:18:51 +0000 |
| Re: [8.6; 047; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement | Thomas Stockhammer | Sun, 7 Feb 2021 16:50:53 +0000 |
| Re: [8.6; 047; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement | Thorsten Lohmar | Sun, 7 Feb 2021 17:07:24 +0000 |
| Re: [8.6; 047; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement | Thomas Stockhammer | Sun, 7 Feb 2021 18:05:22 +0000 |
| Re: [8.6; 047; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement | Thorsten Lohmar | Mon, 8 Feb 2021 08:13:19 +0000 |
| Re: [8.6; 047; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Hybrid Services in 5GMS -> for agreement | Thomas Stockhammer | Mon, 8 Feb 2021 08:31:35 +0000 |

**Decision:**

* Revised by e-mail.

**S4-210047** is revised to S4-210237.

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| [S4-21](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210047.zip)0237 | [FS\_5GMS\_Multicast] Hybrid use case | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210047.

**Decision:**

* Revised.

**S4-210237** is revised to S4-210250.

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| [S4-21](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210047.zip)0250 | [FS\_5GMS\_Multicast] Hybrid use case | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210047.

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Thorsten: I don’t see differences between 1 and 3.
* Thomas: In one case you offer the same service on A and B. In the other, we switch from one to another.
* Peng: In the liaison from RAN3, they indicated no SYNC. But eMBMS needs SYNC. We need to be careful.
* Thomas: We don’t have to deal with details. In use-case 2I don’t think we have a SYNC issue.

**Decision:**

* Agreed and will be added by the rapporteur to the TR.

**S4-210250** is agreed.

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| [S4-210048](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210048.zip) | [FS\_5GMS\_Multicast] Interworking with EPC and enTV | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| --- | --- | --- |
| [[8.6; 048; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=20729) | Gabin, Frederic | Mon, 1 Feb 2021 13:29:20 +0000 |
| [[8.6; 048; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=31587) | Thorsten Lohmar | Mon, 1 Feb 2021 13:56:45 +0000 |
| [[8.6; 048; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=36642) | Richard Bradbury | Mon, 1 Feb 2021 14:35:35 +0000 |
| [[8.6; 048; Block A; 02Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=83299) | Thomas Stockhammer | Tue, 2 Feb 2021 12:16:43 +0000 |
| [[8.6; 048; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=101288) | Gabin, Frederic | Tue, 2 Feb 2021 13:23:23 +0000 |
| [[8.6; 048; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=135297) | Gabin, Frederic | Wed, 3 Feb 2021 14:20:23 +0000 |
| [Re: [8.6; 048; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R187990) | Thomas Stockhammer | Sun, 7 Feb 2021 21:01:37 +0000 |
| [Re: [8.6; 048; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R3777) | Thomas Stockhammer | Mon, 8 Feb 2021 11:54:27 +0000 |
| [Re: [8.6; 048; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R10002) | Richard Bradbury | Mon, 8 Feb 2021 12:46:51 +0000 |
| [Re: [8.6; 048; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R19970) | Thomas Stockhammer | Mon, 8 Feb 2021 15:57:08 +0000 |
| [Re: [8.6; 048; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R21895) | Richard Bradbury | Mon, 8 Feb 2021 17:11:41 +0000 |
| [Re: [8.6; 048; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R22887) | Thorsten Lohmar | Mon, 8 Feb 2021 17:45:31 +0000 |
| [Re: [8.6; 048; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] Interworking with EPC and enTV -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R25301) | Thomas Stockhammer | Mon, 8 Feb 2021 20:15:58 +0000 |

**Decision:**

* Revised by e-mail.

**S4-210048** is revised to S4-210238.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210048.zip)238 | [FS\_5GMS\_Multicast] Interworking with EPC and enTV | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-21048.

**Decision:**

* Revised

**S4-210238** is revised to S4-21251.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210048.zip)251 | [FS\_5GMS\_Multicast] Interworking with EPC and enTV | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-21048.

**Decision:**

* Revised.

**S4-210251** is revised to S4-210308.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210048.zip)308 | [FS\_5GMS\_Multicast] Interworking with EPC and enTV | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-21048.

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* None

**Decision:**

* Agreed, will be added in the TR.

**S4-210308** is agreed.

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| [S4-210079](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210079.zip) | pCR TR 26.802 - key issues on MABR support in 5GMS | TELUS, BBC, Qualcomm, Ericsson, Telecom Italia, Enensys | PENG TAN |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[8.6; 079; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - key issues on MABR support in 5GMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=22951) | Gabin, Frederic | Mon, 1 Feb 2021 13:35:08 +0000 |
| [[8.6; 079; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - key issues on MABR support in 5GMS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=136438) | Gabin, Frederic | Wed, 3 Feb 2021 14:21:59 +0000 |

**Decision:**

* Agreed via e-mail.

**S4-210079** is agreed.

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| [S4-210080](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210080.zip) | [FS\_5GMS\_Multicast] Updated time and work plan | TELUS | PENG TAN |

**E-mail Discussion:**

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| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=17209) | Gabin, Frederic | Mon, 1 Feb 2021 13:17:59 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=23720) | Richard Bradbury | Mon, 1 Feb 2021 13:36:28 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=33208) | Thorsten Lohmar | Mon, 1 Feb 2021 14:14:58 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=35816) | Thorsten Lohmar | Mon, 1 Feb 2021 14:29:14 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=37835) | Thomas Stockhammer | Mon, 1 Feb 2021 14:45:19 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=40484) | Thorsten Lohmar | Mon, 1 Feb 2021 15:16:03 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=43178) | Gabin, Frederic | Mon, 1 Feb 2021 15:27:00 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=43925) | Thomas Stockhammer | Mon, 1 Feb 2021 15:27:27 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=44769) | Thorsten Lohmar | Mon, 1 Feb 2021 15:33:06 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=46091) | Richard Bradbury | Mon, 1 Feb 2021 15:40:08 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=46623) | Thomas Stockhammer | Mon, 1 Feb 2021 15:51:32 +0000 |
| [[8.6; 080; Block A; 03Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=103220) | Gabin, Frederic | Tue, 2 Feb 2021 13:24:41 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=108646) | Peng Tan | Tue, 2 Feb 2021 15:01:42 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=130926) | Gabin, Frederic | Wed, 3 Feb 2021 14:03:01 +0000 |
| [[8.6; 080; Block A; 02Feb 1200] FS\_5GMS\_Multicast updated work plan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=141097) | Peng Tan | Wed, 3 Feb 2021 14:45:18 +0000 |

**Decision:**

* S4-210080 is revised by e-mail to S4-210234.

**S4-210080** is revised to S4-210234.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210080.zip)234 | [FS\_5GMS\_Multicast] Updated time and work plan | TELUS | PENG TAN |

**E-mail Discussion:**

See S4-210080.

**Presenter: Peng Tan, Telus**

**Discussion:**

* Thorsten: No conf call for a single WID, right?
* Frédéric: Yes.

**Decision:**

* Agreed and will go to the Plenary.

**S4-210234** is agreed and goes to the plenary.

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| [S4-210081](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210081.zip) | draft TR 26.802 | TELUS | PENG TAN |

**E-mail Discussion:**

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| [[8.6; 081; Block A; 02Feb 1200] Draft TR 26.802 v0.2.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=16206) | Gabin, Frederic | Mon, 1 Feb 2021 13:15:07 +0000 |
| [[8.6; 081; Block A; 02Feb 1200] Draft TR 26.802 v0.2.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=56684) | Thomas Stockhammer | Mon, 1 Feb 2021 22:18:36 +0000 |
| [[8.6; 081; Block A; 02Feb 1200] Draft TR 26.802 v0.2.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=66214) | Thorsten Lohmar | Tue, 2 Feb 2021 08:53:33 +0000 |
| [[8.6; 081; Block A; 03Feb 1200] Draft TR 26.802 v0.2.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=102408) | Gabin, Frederic | Tue, 2 Feb 2021 13:24:10 +0000 |
| [[8.6; 081; Block A; 02Feb 1200] Draft TR 26.802 v0.2.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=104816) | Peng Tan | Tue, 2 Feb 2021 13:52:06 +0000 |
| [[8.6; 081; Block A; 02Feb 1200] Draft TR 26.802 v0.2.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=129312) | Gabin, Frederic | Wed, 3 Feb 2021 13:58:47 +0000 |
| [Re: [8.6; 081; Block A; 02Feb 1200] Draft TR 26.802 v0.2.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R105577) | Peng Tan | Wed, 3 Feb 2021 16:19:25 +0000 |
| [Re: [8.6; 081->233; Block A; 02Feb 1200] Draft TR 26.802 v0.2.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R106542) | Richard Bradbury | Wed, 3 Feb 2021 17:54:08 +0000 |
| [Re: [8.6; 081->233; Block A; 02Feb 1200] Draft TR 26.802 v0.2.1 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R106772) | Peng Tan | Wed, 3 Feb 2021 17:56:47 +0000 |

**Decision:**

* S4-210081 is revised by e-mail to S4-210233 to include agreed Tdocs S4-201384 and S4-201386. Proponents of Tdocs S4-201384 and S4-201386 And the editor of the TR are invited to work on these updates.

**S4-210081** is revised to S4-210233.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210081.zip)233 | draft TR 26.802 | TELUS | PENG TAN |

**E-mail Discussion:**

See S4-210081.

**Presenter: Peng Tan,Telus**

**Discussion:**

* Fred: Some missing CRs were missing.
* Peng: Applied two.
* Thomas: Keen that this doesn’t get lost. I will draft pCR with open issues following today’s discussion.
* Peng: At end, text for S4-201384 regarding (MABR); also xMB-C included now too.
* Thorsten: New TDoc for Key Issue 3 on collaboration (see S4-210239).

**Decision:**

* V0.2.2 agreed as the basis for further work.
* Further updates expected. Revision v0.3.0 expected for SA4 Plenary: S4-210245.

**S4-210233** is revised to S4-210245.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210081.zip)245 | Draft TR 26.802 v0.3.0 Multicast Architecture Enhancement for 5G Media Streaming | Editor (TELUS) | PENG TAN |

**Decision:**

* Goes to the plenary.

**S4-210245** goes to the plenary.

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| [S4-210152](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210152.zip) | Review of xMB-C wrt User Plane properties | Ericsson LM, BBC | Bo Burman |

**E-mail Discussion:**

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| [[8.6; 152; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - Review of xMB-C wrt User Plane properties -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=23963) | Gabin, Frederic | Mon, 1 Feb 2021 13:38:53 +0000 |
| [[8.6; 152; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - Review of xMB-C wrt User Plane properties -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=46336) | Richard Bradbury | Mon, 1 Feb 2021 15:49:00 +0000 |
| [[8.6; 152; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - Review of xMB-C wrt User Plane properties -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=47756) | Thorsten Lohmar | Mon, 1 Feb 2021 16:00:13 +0000 |
| [[8.6; 152; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - Review of xMB-C wrt User Plane properties -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=65242) | Thorsten Lohmar | Tue, 2 Feb 2021 08:46:15 +0000 |
| [[8.6; 152; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - Review of xMB-C wrt User Plane properties -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=77668) | Thomas Stockhammer | Tue, 2 Feb 2021 10:55:42 +0000 |
| [[8.6; 152; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - Review of xMB-C wrt User Plane properties -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=94121) | Richard Bradbury | Tue, 2 Feb 2021 13:07:11 +0000 |

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| [[8.6; 152; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - Review of xMB-C wrt User Plane properties -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=137679) | Gabin, Frederic | Wed, 3 Feb 2021 14:24:51 +0000 |

**Decision:**

* Agreed via e-mail. The editor should take care of adding the reference to RFC 5445 in clause 2.

**S4-210152** is agreed.

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| [S4-210153](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210153.zip) | New Key Issue on 'Collaboration and deployment scenarios' | Ericsson LM | Bo Burman |

**E-mail Discussion:**

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| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=25890) | Gabin, Frederic | Mon, 1 Feb 2021 13:41:08 +0000 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=41249) | Thorsten Lohmar | Mon, 1 Feb 2021 15:18:38 +0000 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=38487) | Cedric THIENOT | Mon, 1 Feb 2021 15:52:25 +0100 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=47425) | Richard Bradbury | Mon, 1 Feb 2021 15:53:17 +0000 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=64163) | Thorsten Lohmar | Tue, 2 Feb 2021 08:41:37 +0000 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=75717) | Thomas Stockhammer | Tue, 2 Feb 2021 10:25:44 +0000 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=70755) | Cedric THIENOT | Tue, 2 Feb 2021 10:35:05 +0100 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=87964) | Richard Bradbury | Tue, 2 Feb 2021 12:32:49 +0000 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=88296) | Richard Bradbury | Tue, 2 Feb 2021 12:40:11 +0000 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=88872) | Thorsten Lohmar | Tue, 2 Feb 2021 12:49:17 +0000 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=89856) | Thorsten Lohmar | Tue, 2 Feb 2021 12:50:57 +0000 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=110932) | Richard Bradbury | Tue, 2 Feb 2021 15:07:24 +0000 |
| [[8.6; 153; Block A; 03Feb 1200] [FS\_5GMS\_Multicast] pCR TR 26.802 - New Key Issue on “Collaboration and deployment scenarios” -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=138457) | Gabin, Frederic | Wed, 3 Feb 2021 14:27:43 +0000 |

**Presenter: Thorsten Lohmar, Ericsson**

**Discussion:**

* Thomas: Can we simplify the left side? Why do we need the yellow part?
* Frédéric: Without 5GMS functions we shouldn’t have yellow color.
* Thorsten: Yes, I need to fix that.
* Richard: Collaboration C and D are difficult to distinguish. Maybe explaining in the text is good enough to solve it.
* Thorsten: I will think about it.
* Thorsten: Could label it as “Download delivery” to avoid confusion with transparent delivery from 26.346.

**Decision:**

* S4-210153 is revised to S4-210239 (based on revision 2) and comments.

**S4-210153** is revised to S4-210239.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210153.zip)239 | New Key Issue on 'Collaboration and deployment scenarios' | Ericsson LM | Bo Burman |

**E-mail Discussion:**

See S4-210153.

**Presenter: Thorsten Lohmar (Ericsson)**

**Discussion:**

* Thorsten: Updated diagrams to show “e.g. 5MBS Download Delivery”. Updated B2 collaboration to make the client white, so neutral ownership. Collaboration D: Media player is now blue.

**Decision:**

* Agreed to be added to TR 26.802. The editor will take care of it.

**S4-210239** is agreed.

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| [S4-210154](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210154.zip) | Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS | Ericsson LM | Bo Burman |

**E-mail Discussion:**

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| [[8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=26734) | Gabin, Frederic | Mon, 1 Feb 2021 13:44:09 +0000 |
| [[8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=62116) | panqi (E) | Tue, 2 Feb 2021 04:09:23 +0000 |
| [[8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=67020) | Thorsten Lohmar | Tue, 2 Feb 2021 09:03:00 +0000 |
| [[8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=67818) | Thomas Stockhammer | Tue, 2 Feb 2021 09:23:41 +0000 |
| [[8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=68726) | panqi (E) | Tue, 2 Feb 2021 09:28:16 +0000 |
| [[8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=71576) | Thorsten Lohmar | Tue, 2 Feb 2021 09:53:55 +0000 |
| [[8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=72654) | Thomas Stockhammer | Tue, 2 Feb 2021 10:13:05 +0000 |
| [[8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=105735) | Peng Tan | Tue, 2 Feb 2021 14:35:00 +0000 |
| [[8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=120384) | Thomas Stockhammer | Wed, 3 Feb 2021 07:16:50 +0000 |
| [[8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=139295) | Gabin, Frederic | Wed, 3 Feb 2021 14:29:22 +0000 |
| [Re: [8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R110142) | Peng Tan | Thu, 4 Feb 2021 04:06:25 +0000 |
| [Re: [8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R112025) | Thomas Stockhammer | Thu, 4 Feb 2021 07:05:39 +0000 |
| [Re: [8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R119497) | Thorsten Lohmar | Thu, 4 Feb 2021 10:42:46 +0000 |
| [Re: [8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R122970) | Thorsten Lohmar | Thu, 4 Feb 2021 12:44:01 +0000 |
| [Re: [8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R124912) | Richard Bradbury | Thu, 4 Feb 2021 13:09:14 +0000 |
| [Re: [8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R126718) | Peng Tan | Thu, 4 Feb 2021 14:06:29 +0000 |
| [242 Draft LS to SA2 - RE: [8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R128803) | Thorsten Lohmar | Thu, 4 Feb 2021 15:24:00 +0000 |
| [Re: 242 Draft LS to SA2 - RE: [8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R132835) | Thorsten Lohmar | Thu, 4 Feb 2021 16:36:10 +0000 |
| [Re: 242 Draft LS to SA2 - RE: [8.6; 154; Block A; 03Feb 1200] Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R130787) | Cedric THIENOT | Thu, 4 Feb 2021 17:14:41 +0100 |

**Discussion:**

* Fred: Who will update the SID?
* Thorsten: I should revise. It might be good to capture comments.
* Fred: Also need to draft an LS to SA6.
* Thomas: Nervous about sending stuff too early to other groups. Are we clear on the exact question? Prefer to document the Key Issue first in our TR.
* Thorsten: First clarify how FEC on MB2 would work? By focussing on generic MBS service architecture, we could postpone the question to SA6. Feedback from SA2 colleagues suggested SA4 should look into MB2.
* Fred: Are we defining a generic service architecture (c.f. MBMS) or just something for 5GMS?
* Thomas: Generic. File, segment streaming, transparent and Group Communication. Question is who can activate? Can GC only be activated through MB2?
* Fred: Question is what is the scope of xMB?
* Thomas: Will all services use xMB or can they use MB2?
* Fred: What is appropriate to meet the service requirements? Will we take stage 3 of MB2 or CT3?
* Thorsten: Park stage 3 discussion.
* Thorsten: Not sure all companies in SA2 have the same view as each other. In the LS from SA2, SA4 was asked to look into MB2.
* Peng: Add a Key Issue for Media Streaming in MBS in our study.
* Thorsten: Update the SID to say we want to study 5MBS independently from 5GMS to clarify scope.
* Fred: Question is: what are the service requirements on the MBSU?
* Thorsten: Could take requirements from LTE.
* Fred: Too strong an assumption.
* Fred: Why not send a question to SA2/SA6 on what is expected from the MBSU?
* Thomas: OK to send LS with a more specific question than currently drafted.
* Thorsten: Will draft something.
* Fred: (Based on Ed O’Leary chat) Do we inherit all the LTE requirements automatically?
* Cédric: If FEC is in 4G, shouldn’t it be included in 5G too?
* Fred: Good question. Could argue that the FEC is system-specific.
* Fred: Start a draft LS.
* Cédric: Yes. Good way to move forward.
* Fred: Routed to both SA2 and SA6?
* Qi: LS to SA2 is fine. PArt of the BM-SC moved to 5GC. Need SA2 to clarify scope of MBSU functionalities.
* Qi: Not sure about sending LS to SA6. MCData: for generic file delivery we don’t care about payload.
* Thorsten: For 5GMS only, it would have been awkward. Now we expand scope for non-5GMS 5MBS, and we might support generic file delivery in SA4, maybe we don’t need to ask SA6 that question. We could park the question to SA6.
* Thorsten: SID update possible without response from SA2.

**Decision:**

* Revised to S4-210244 to take into account what is agreed.
* Thorsten to draft LS to SA2 in new TDoc S4-210242.
* Peng (the Rapporteur) to draft SID update in new TDoc S4-210243.

**S4-210154** is revised to S4-210244.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210153.zip)242 | Reply LS on Service Layer aspects for 5G MBS | Ericsson LM | Bo Burman |

**E-mail Discussion:**

See S4-210154.

**Decision:**

* Revised via e-mail.

**S4-210242** is revised to S4-210312.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210153.zip)312 | Reply LS on Service Layer aspects for 5G MBS (to SA2) | Ericsson LM | Bo Burman |

**E-mail Discussion:**

See S4-210154.

**Presenter: Thorsten Lhomar (Ericsson)**

**Discussion:**

* Thorsten: Small correction needed to “only the MBSF…”
* Thomas: It is not a reply.
* Thorsten: It would be good to have formal feedback.
* Thomas: The title is not the good one.

**Decision:**

* Revised. The revision will go to the plenary.

**S4-210312** is revised to S4-210319.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210153.zip)319 | Reply LS on Service Layer aspects for 5G MBS (to SA2) | Ericsson LM | Bo Burman |

**E-mail Discussion:**

See S4-210154.

**Decision:**

* Goes to the plenary.

**S4-210319** goes to the plenary.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210153.zip)243 | Draft revised SID FS\_5GMS\_Multicast | Rapporteur (TELUS) | Peng Tan |

**E-mail Discussion:**

None Triggered.

**Presenter: Peng Tan (Telus)**

**Discussion:**

* Peng: should we ask for an extended timeline given the expanded scope we are requesting?
* Charles: At the end of “4 Objective”, it is 5MBS instead of MBS.
* Frédéric: Why do you refer to the present document? Maybe we need to remove this. And add Dolby and Ericsson in supporters.

**Decision:**

* Revised to take into account online modifications. The revision will go to the plenary (not agreed yet).

**S4-210243** is revised to S4-210248.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210153.zip)248 | Feasibility Study on Multicast Architecture Enhancement for 5G Media Streaming | Rapporteur (TELUS) | Peng Tan |

**Decision:**

* Goes to the plenary.

**S4-210248** goes to the plenary.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210153.zip)244 | Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS | Ericsson LM | Bo Burman |

**E-mail Discussion:**

See S4-21054.

**Presenter: Thorsten Lohmar, Ericsson**

**Discussion:**

* Thorsten: Taken in suggestions from e-mail discussion. Removed bullets relating to stage 3. Some suggestions on the name of the User Service Architecture. Focus on definition of interfaces and functions.
* Cédric: Reviewed 23.757 and it seems obvious that SA2 has asked SA4 to look at MB2.
* Thorsten: Would be good to see this more explicitly. MB2 is still under SA2 control. Old LS uses “in collaboration with SA4” wording.
* Cédric: Agrees to send an LS.

**Decision:**

* Agreed the first bullet
* Second bullet: agree to send an LS to SA2, wording to be determined.

**S4-210244** is agreed.

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

WID: [SP\_200055](http://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_87E_Electronic/Docs/SP-200055.zip)

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| [S4-210083](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210083.zip) | Clarification of EAS discovery solutions during UE mobility in SA2 | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

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| [[8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R114219) | Gabin, Frederic | Thu, 4 Feb 2021 08:25:25 +0000 |
| [Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R116870) | Richard Bradbury | Thu, 4 Feb 2021 09:52:06 +0000 |
| [Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R143351) | Imed Bouazizi | Thu, 4 Feb 2021 20:48:22 +0000 |
| [Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R150714) | panqi (E) | Fri, 5 Feb 2021 04:11:30 +0000 |
| [Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R155729) | panqi (E) | Fri, 5 Feb 2021 06:41:21 +0000 |
| [Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R158294) | Thorsten Lohmar | Fri, 5 Feb 2021 07:07:30 +0000 |
| [Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R164081) | panqi (E) | Fri, 5 Feb 2021 10:42:42 +0000 |
| [Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R165090) | Gabin, Frederic | Fri, 5 Feb 2021 11:25:22 +0000 |
| [Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R166306) | Richard Bradbury | Fri, 5 Feb 2021 11:34:35 +0000 |
| Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement | panqi (E) | Mon, 8 Feb 2021 12:29:51 +0000 |
| Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement | Richard Bradbury | Mon, 8 Feb 2021 14:54:48 +0000 |
| [Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R17138) | panqi (E) | Mon, 8 Feb 2021 15:13:56 +0000 |
| Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement | panqi (E) | Tue, 9 Feb 2021 07:15:25 +0000 |
| [Re: [8.7; 083; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Clarification of EAS discovery solutions during UE mobility in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R28753) | Richard Bradbury | Tue, 9 Feb 2021 09:13:12 +0000 |

**Presenter: Qi Pan (Huawei)**

**Discussion:**

* Revision 2 uploaded.
* Thorsten: Is URSP rules also influence the OS level operation?
* Qi: URSP rules may be up to the implementation, not the Operating System. When PDU sessions change, UE uses a new USRP to service a new slice, for example. Not currently standardised in SA2. UE IP will change.
* Thorsten: If UE has two PDU sessions and PDU session already selecting by UE Operating System, this could be problematic. Suggest adding information from e-mail thread to this contribution as an open point with ongoing work.
* Qi :Yes. Will do.
* Imed: UE Route Selection Policy -> URSP
* Imed: This multiple PDU sessions solution could fail for several reasons. Hence, the note that additional solutions may be added by SA2 later.
* Thorsten: Is URSP just modem?
* Fred: Agreement to add a note. Qi to suggest wording.
* Thorsen: Second comment. Two types of DNS: authoritative and recursive. Operators typically deploy the latter for resolving third-party domain names for which they are not authoritative. Does the DNS-based EAS discovery work for all situations?
* Qi: Because SMF assigns a DNS server address to the UE, the UE will use this DNS server as its resolver. This may be a recursive DNS server.
* Thorsten: Original domain wouldn’t see that the client is doing a request.
* Imed: This will fail for DNSsec, for example.
* Imed: If the MNO owns the domain name, the authoritative approach works nicely.

**Decision:**

* Revised according modifications and adding BBC as co-author.

**S4-210083** is revised to S4-210253.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210083.zip)253 | Clarification of EAS discovery solutions during UE mobility in SA2 | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

See S4-210083.

**Presenter: Qi Pan (Huawei)**

**Discussion:**

* Style of the Editor’s NOTE to be modified

**Decision:**

* Revised.

**S4-210253** is revised to S4-210304.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210083.zip)304 | Clarification of EAS discovery solutions during UE mobility in SA2 | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

See S4-210083.

**Decision:**

* Agreed.

**S4-210304** is agreed.

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| [S4-210084](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210084.zip) | Overview of concluded edge application relocation solutions in SA2 | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

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| [[8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R114336) | Gabin, Frederic | Thu, 4 Feb 2021 08:25:33 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R116974) | Richard Bradbury | Thu, 4 Feb 2021 10:00:36 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R128507) | panqi (E) | Thu, 4 Feb 2021 15:12:15 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R140317) | Richard Bradbury | Thu, 4 Feb 2021 18:07:11 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R142170) | Iraj Sodagar | Thu, 4 Feb 2021 20:24:27 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R143828) | Imed Bouazizi | Thu, 4 Feb 2021 21:09:43 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R145734) | Iraj Sodagar | Thu, 4 Feb 2021 21:57:29 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R146116) | Imed Bouazizi | Thu, 4 Feb 2021 22:02:22 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R146617) | Iraj Sodagar | Fri, 5 Feb 2021 00:23:03 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R149950) | panqi (E) | Fri, 5 Feb 2021 04:06:13 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R164625) | Richard Bradbury | Fri, 5 Feb 2021 10:47:17 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R165691) | Richard Bradbury | Fri, 5 Feb 2021 11:28:05 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R166538) | Gabin, Frederic | Fri, 5 Feb 2021 11:37:20 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R168213) | Richard Bradbury | Fri, 5 Feb 2021 12:19:51 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R169408) | panqi (E) | Fri, 5 Feb 2021 12:50:04 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R33989) | Gabin, Frederic | Tue, 9 Feb 2021 12:24:57 +0000 |
| [Re: [8.7; 084; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Overview of concluded edge application relocation solutions in SA2 -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R36192) | panqi (E) | Tue, 9 Feb 2021 12:30:26 +0000 |

**Presenter: Qi Pan (Huawei)**

**Discussion:**

* Imed: Can we get more time to review this?
* Frédéric: Yes, we can extend the review time. We keep it open over e-mail.

**Decision:**

* Revised

**S4-210084** is revised to S4-210313.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210084.zip)313 | Overview of concluded edge application relocation solutions in SA2 | HUAWEI Technologies Japan K.K. | Qi Pan |

**Decision:**

* Agreed.

**S4-210313** is agreed.

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| [S4-210085](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210085.zip) | Discussion for architecture mapping from SA6 to SA4 | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

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| --- | --- | --- |
| [[8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=155513) | Gabin, Frederic | Thu, 4 Feb 2021 08:25:47 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=167076) | Richard Bradbury | Thu, 4 Feb 2021 08:56:52 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=167551) | Richard Bradbury | Thu, 4 Feb 2021 09:27:24 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=167789) | Richard Bradbury | Thu, 4 Feb 2021 09:28:46 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=168026) | Richard Bradbury | Thu, 4 Feb 2021 09:43:18 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=186895) | Iraj Sodagar | Thu, 4 Feb 2021 18:57:52 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=187957) | Iraj Sodagar | Thu, 4 Feb 2021 19:05:53 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=188755) | Iraj Sodagar | Thu, 4 Feb 2021 19:14:53 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=190975) | Richard Bradbury | Thu, 4 Feb 2021 20:37:14 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=194393) | Imed Bouazizi | Thu, 4 Feb 2021 21:20:55 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=195070) | Imed Bouazizi | Thu, 4 Feb 2021 21:27:14 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=195818) | Imed Bouazizi | Thu, 4 Feb 2021 21:29:14 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=199473) | Sungryeul Rhyu | Fri, 5 Feb 2021 09:45:07 +0900 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=200055) | Iraj Sodagar | Fri, 5 Feb 2021 02:13:33 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=201898) | panqi (E) | Fri, 5 Feb 2021 03:37:18 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=204028) | Sungryeul Rhyu | Fri, 5 Feb 2021 13:27:08 +0900 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=204615) | Sungryeul Rhyu | Fri, 5 Feb 2021 13:58:23 +0900 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=205341) | Iraj Sodagar | Fri, 5 Feb 2021 05:34:30 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=206611) | Thomas Stockhammer | Fri, 5 Feb 2021 06:06:50 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=207188) | Iraj Sodagar | Fri, 5 Feb 2021 06:12:09 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=211252) | Thomas Stockhammer | Fri, 5 Feb 2021 06:54:32 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=213533) | Thorsten Lohmar | Fri, 5 Feb 2021 07:30:10 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=224945) | Gabin, Frederic | Fri, 5 Feb 2021 12:06:02 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=237632) | Richard Bradbury | Fri, 5 Feb 2021 23:14:21 +0000 |
| [Re: [8.7; 085/100/120/161; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Architecture](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=239223) | Iraj Sodagar | Sat, 6 Feb 2021 21:53:10 +0000 |

**Presenter: Qi Pan (Huawei)**

**Discussion:**

* Imed: One of the objectives is to avoid creating new interfaces. So, I have concerns about the second part.
* Qi: If we realize the EES application in AF we lose some interfaces.
* Imed: Internal parameter transfers (e.g. between AF and EES) are out of scope. Fine to break them down in an implementation using a private interface. None of these entities exposes a management interface in the SA6 reference architecture. That’s not something we want to define.
* Qi: From SA6 perspective, the specific EES entity may implement 5GMS AF functionalities.
* Richard: This diagram feels like a low level implementation diagram. At the architecture level we need a more high level diagram. But we could show collaborations in an annex, perhaps.
* Iraj: Could this be captured in the Technical Report?

**Decision:**

* Revised into a pCR for inclusion in the TR.
* Look into adding collaborations into normative specification later on.

**S4-210085** is revised to S4-210295.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210085.zip)295 | Possible Deployment Option for EMSA Architecture | HUAWEI Technologies Japan K.K. | Qi Pan |

**E-mail Discussion:**

See S4-210085.

**Decision:**

* Noted.

**S4-210295** is noted.

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| [S4-210100](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210100.zip) | FS\_EMSA: Architecture update | Tencent | Iraj Sodagar |

**E-mail Discussion:**

See S4-210085.

**Presenter: Iraj Sodagar (Tencent)**

**Discussion:**

* Frédéric: 3GMS AS and AF to be updated to 5GMS in call flows.
* Richard: It would be useful to identify in which use case which implementation is the best?
* Iraj: Yes.

**Decision:**

* Two call flows (sections 5 and 6) agreed with changes, to be incorporated into S4-210254.

**S4-210100** is partially agreed.

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| [S4-210120](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210120.zip) | On EMSA architecture | Samsung Electronics Co., Ltd | Sungryeul Rhyu |

**E-mail Discussion:**

See S4-210085.

**Presenter: Sungryeul Rhyu (Samsung)**

**Discussion:**

* Frédéric: Considerations already clarified in others associated contributions.

**Decision:**

* Noted as already taken in consideration in others contributions.

**S4-210120** is noted.

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| [S4-210161](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210161.zip) | EMSA architecture | Qualcomm Wireless GmbH | Imed Bouazizi |

**E-mail Discussion:**

See S4-210085.

**Presenter: Imed Bouazizi (Qualcomm)**

**Discussion:**

* Richard: I added the application Client box in 5GMS Aware Application. I just see it should terminate to EEC.
* Iraj: I suggested modifying EAS in 5GMS AS to prevent confusion.
* Imed: I am fine to call it something else as long as we don’t need a new architecture. Could be Edge Enable 5GMS AS.
* Richard: We could have a simpler diagram but it should be in addition to this diagram. EAS and EES wouldn’t appear in the simpler diagram.
* Frédéric: If you start to include a Edge Enable 5GMS AS in diagrams, we will need to know what it is. We could indicate that the 5GMS AF may/should/shall support additional functionalities like EES.
* Richard: Does the text below the diagram is enough to prevent the confusion?
* Iraj: No.
* Frédéric: New names in diagrams implies new entities to be defined. We don’t have the same constraint in the text. Some wording could be added.
* Imed: Yes, I will modify the text.
* Iraj: Edge-5 has to be modified.
* Sungryeul: It is not clear how the application discovers the closest EAS. Does it work over M8?
* Imed: We support both client JSON and application provider JSON.
* Richard: The server name is passed via M8, yes.
* Imed: Or else the application already knows the server name to use.
* Iraj: I agree this paragraph (end of §2) is not very clear. We need clarifications.
* Imed: I can add more.

**Decision:**

* Revised to take in consideration online discussions.

**S4-210161** is revised to S4-210254.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210161.zip)254 | EMSA architecture | Qualcomm Wireless GmbH | Imed Bouazizi |

**E-mail Discussion:**

See S4-210161.

**Decision:**

* Revised.

**S4-210254** is revised to S4-210320.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210161.zip)320 | EMSA architecture | Qualcomm Wireless GmbH | Imed Bouazizi |

**E-mail Discussion:**

See S4-210161.

**Decision:**

* Goes to the plenary.

**S4-210320** goes to the plenary.

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| [S4-210162](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210162.zip) | Split Rendering Use Case Walkthrough | Qualcomm Wireless GmbH | Imed Bouazizi |

**E-mail Discussion:**

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| [[8.7; 162; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Split Rendering Use Case Walkthrough -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R114581) | Gabin, Frederic | Thu, 4 Feb 2021 08:25:57 +0000 |
| [Re: [8.7; 162; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Split Rendering Use Case Walkthrough -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R117201) | Richard Bradbury | Thu, 4 Feb 2021 10:21:17 +0000 |
| [Re: [8.7; 162; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Split Rendering Use Case Walkthrough -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R126302) | Imed Bouazizi | Thu, 4 Feb 2021 13:59:00 +0000 |
| [Re: [8.7; 162; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Split Rendering Use Case Walkthrough -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R141634) | Iraj Sodagar | Thu, 4 Feb 2021 20:05:41 +0000 |
| [Re: [8.7; 162; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Split Rendering Use Case Walkthrough -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R167634) | Gabin, Frederic | Fri, 5 Feb 2021 12:11:35 +0000 |
| [Re: [8.7; 162; Block B; 05Feb 1200] [FS\_EMSA TR 26.803] Split Rendering Use Case Walkthrough -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R34799) | Gabin, Frederic | Tue, 9 Feb 2021 12:26:54 +0000 |

**Discussion:**

* Richard: Should we have to modify names on top of call flow (e.g. 5GMSd AS “EAS”).
* Iraj: Could show EAS and AS as separate actors, but grouped with a dotted line; similarly EES and AF actors. This makes it clear which reference point is involved.
* Fred: Ideal would be to show EAS inside AS actor and EES inside AF actor. This would be most similar to the reference architecture in S4-210161.

**Decision:**

* Imed offered to revise via e-mail. So 162 is revised to 252.

**S4-210162** is revised to S4-210252.

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| [S4-210252](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210162.zip) | Split Rendering Use Case Walkthrough | Qualcomm Wireless GmbH | Imed Bouazizi |

**E-mail Discussion:**

See S4-210162.

**Decision:**

* Noted.

**S4-210252** is noted.

8.8 FS\_5GMS\_EXT (Study on 5G media streaming extensions)

WID: [SP\_200055](http://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_87E_Electronic/Docs/SP-200055.zip)

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| [S4-210049](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210049.zip) | [FS\_5GMS-EXT] Key Topic Content Preparation | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=158705) | Gabin, Frederic | Thu, 4 Feb 2021 08:26:41 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=170776) | Richard Bradbury | Thu, 4 Feb 2021 10:28:19 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=171016) | Richard Bradbury | Thu, 4 Feb 2021 10:34:25 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=191213) | Iraj Sodagar | Thu, 4 Feb 2021 20:40:40 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=192966) | Iraj Sodagar | Thu, 4 Feb 2021 20:56:41 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=214370) | Thorsten Lohmar | Fri, 5 Feb 2021 07:48:12 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=218559) | Thomas Stockhammer | Fri, 5 Feb 2021 08:58:43 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=220475) | Richard Bradbury | Fri, 5 Feb 2021 09:19:39 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&D=0&P=16344) | Gabin, Frederic | Mon, 8 Feb 2021 12:26:09 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&D=0&P=16344) | Iraj Sodagar | Tue, 9 Feb 2021 02:11:32 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=46637) | Richard Bradbury | Tue, 9 Feb 2021 11:57:34 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=59334) | Iraj Sodagar | Wed, 10 Feb 2021 01:17:42 +0000 |
| [Re: [8.8; 049/101; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content preparation](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=60277) | Iraj Sodagar | Wed, 10 Feb 2021 08:20:53 +0000 |

**Discussion:**

* Thorsten: RIST and SRT are for uplink or downlink?
* Thomas: Contribution is changed to distribution. For me, it is an ingest into downlink.
* Thorsten: Please clarify.
* Richard: For this study we are only interesting in ingest on downlink?
* Iraj: We can have all scenarios.
* Frédéric: RIST and SRT are cited as examples. What is the attention? Will they be included?
* Thomas: It is TBD. The above was for downlink.
* Thorsten: I would like to know which scenario are we exchanging now (m2, m4, ....)?
* Frédéric: Can we delete “Content preparation instructions is ffs”?
* Iraj: Is it TBD or ffs?
* Frédéric: We delete the 2 ffs sentences and we merge with 101.

**Decision:**

* Revised and 101 will be merged in this revision.

**S4-210049** is revised to S4-210306.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210049.zip)306 | [FS\_5GMS-EXT] Key Topic Content Preparation | Qualcomm Incorporated, Tencent | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210049.

**Discussion:**

* The followings are implemented based on online comments done on 049 and 101 :
  + A paragraph on the use of content preparation for uplink, downlink or both
  + Remove of two FFS lines
  + Add of the use-case from 101
  + Addressed Richard and Thorsten comments
  + Add a collaboration scenario from 101
  + Add a corresponding figure based on Thorsten figures (thanks Thorsten!)

**Decision:**

* Goes to the plenary.

**S4-210306** goes to the plenary.

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| [S4-210050](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210050.zip) | [FS\_5GMS-EXT] Key Topic Traffic Identification | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.8; 050/156; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Traffic identification](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=159483) | Gabin, Frederic | Thu, 4 Feb 2021 08:26:53 +0000 |
| [Re: [8.8; 050/156; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Traffic identification](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=172004) | Richard Bradbury | Thu, 4 Feb 2021 10:41:23 +0000 |
| [Re: [8.8; 050/156; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Traffic identification](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=173248) | Richard Bradbury | Thu, 4 Feb 2021 10:48:04 +0000 |
| [Re: [8.8; 050/156; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Traffic identification](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=215230) | Thorsten Lohmar | Fri, 5 Feb 2021 07:59:49 +0000 |
| [Re: [8.8; 050/156; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Traffic identification](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=216115) | Thorsten Lohmar | Fri, 5 Feb 2021 08:22:28 +0000 |
| [Re: [8.8; 050/156; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Traffic identification](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=217099) | panqi (E) | Fri, 5 Feb 2021 08:42:49 +0000 |
| [Re: [8.8; 050/156; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Traffic identification](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=217968) | Thorsten Lohmar | Fri, 5 Feb 2021 08:51:19 +0000 |
| [Re: [8.8; 050/156; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Traffic identification](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=228704) | Richard Bradbury | Fri, 5 Feb 2021 12:52:47 +0000 |
| [Re: [8.8; 050/156; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Traffic identification](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=228948) | Richard Bradbury | Fri, 5 Feb 2021 13:03:32 +0000 |
| [Re: [8.8; 050/156; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Traffic identification](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=233201) | Thorsten Lohmar | Fri, 5 Feb 2021 14:15:37 +0000 |

**Presenter: Imed Bouazizi**

**Discussion:**

* Thorsten: We need to differentiate external and internal AF. The TR shouldn’t define only one solution.

**Decision:**

* Revised and 156 will be merged in the revision.

**S4-210050** is revised to S4-210307.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210050.zip)307 | [FS\_5GMS-EXT] Key Topic Traffic Identification | Qualcomm Incorporated | Thomas Stockhammer |

**Decision:**

* Goes to the plenary.

**S4-210307** goes to the plenary.

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| [S4-210051](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210051.zip) | [FS\_5GMS-EXT] Key Topic Additional / New transport protocols | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.8; 051; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] New transport protocols -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R115150) | Gabin, Frederic | Thu, 4 Feb 2021 08:27:02 +0000 |
| [Re: [8.8; 051; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] New transport protocols -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&P=173492) | Richard Bradbury | Thu, 4 Feb 2021 11:05:24 +0000 |
| [Re: [8.8; 051; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] New transport protocols -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R2986) | Thomas Stockhammer | Mon, 8 Feb 2021 10:14:56 +0000 |
| [Re: [8.8; 051; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] New transport protocols -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R8477) | Gabin, Frederic | Mon, 8 Feb 2021 12:35:46 +0000 |
| [Re: [8.8; 051; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] New transport protocols -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R16888) | Richard Bradbury | Mon, 8 Feb 2021 15:08:07 +0000 |
| [Re: [8.8; 051; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] New transport protocols -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R18174) | Thomas Stockhammer | Mon, 8 Feb 2021 15:25:45 +0000 |

**Decision:**

* Revised via e-mail.

**S4-210051** is revised to S4-210298.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210051.zip)298 | [FS\_5GMS-EXT] Key Topic Additional / New transport protocols | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210051.

**Presenter: Thomas Stockahhmer (Qualcomm)**

**Discussion:**

* Edward: There is a potential issue: Content could be modified, QUIC could hide that.
* Thorsten: This can also happen with HTTP 1.1. If TLS is used we are blind.
* Edward: As an operator I have to block illegal content. If I can’t access the content, I can block it.
* Richard: HTTP/2 is not worsed but for media streaming, this is poor improvement. It is also the case with HTTP/3.
* Edward: As an operator, I would need to provide clear text.
* Imed: I don’t think you need to do online decryption in real time.
* Frédéric: We may need to document this issue.
* Thorsten: When using javascript, HTTP version is agnostic.
* Thomas: It is not the time to discuss this. The basic issue is what happens if HTTP/3 is deployed.
* Cédric: We see issues in the synchronisation between audio and video. Do we cover this in the study?
* Thomas: Let’s collect issues and benefits and make recommendations.

**Decision:**

* Agree

**S4-210298** is agreed.

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| [S4-210052](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210052.zip) | [FS\_5GMS-EXT] Key Topic Uplink media streaming | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=160979) | Gabin, Frederic | Thu, 4 Feb 2021 08:27:10 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=175079) | Richard Bradbury | Thu, 4 Feb 2021 11:59:22 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=175320) | Richard Bradbury | Thu, 4 Feb 2021 12:05:57 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=177874) | Thorsten Lohmar | Thu, 4 Feb 2021 13:56:46 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=184307) | Charles Lo | Thu, 4 Feb 2021 16:47:23 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=185877) | Charles Lo | Thu, 4 Feb 2021 17:28:14 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=200894) | Charles Lo | Fri, 5 Feb 2021 02:25:16 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=205999) | Iraj Sodagar | Fri, 5 Feb 2021 05:55:07 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=208172) | Iraj Sodagar | Fri, 5 Feb 2021 06:21:09 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=209685) | Thorsten Lohmar | Fri, 5 Feb 2021 06:45:26 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=210492) | Thorsten Lohmar | Fri, 5 Feb 2021 06:49:15 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=230263) | Charles Lo | Fri, 5 Feb 2021 13:49:00 +0000 |
| [Re: [8.8; 052/155/163; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Uplink streaming](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=243131) | Charles Lo | Sun, 7 Feb 2021 17:58:30 +0000 |

**Decision:**

* Merged via e-mail.

**S4-210052** is merged into S4-210299.

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| [S4-210053](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210053.zip) | [FS\_5GMS-EXT] Key Topic Background traffic | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.8; 053; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Background traffic -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R115384) | Gabin, Frederic | Thu, 4 Feb 2021 08:27:21 +0000 |
| [e: [8.8; 053; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Background traffic -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R121642) | Richard Bradbury | Thu, 4 Feb 2021 11:07:30 +0000 |
| [Re: [8.8; 053; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Background traffic -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R162839) | Thorsten Lohmar | Fri, 5 Feb 2021 09:00:09 +0000 |
| [Re: [8.8; 053; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Background traffic -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R2509) | panqi (E) | Mon, 8 Feb 2021 10:10:44 +0000 |
| [Re: [8.8; 053; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Background traffic -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R9503) | Gabin, Frederic | Mon, 8 Feb 2021 12:45:08 +0000 |

**Decision:**

* Revised via e-mail.

**S4-210053** is revised to S4-210300.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210053.zip)300 | [FS\_5GMS-EXT] Key Topic Background traffic | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210053.

**Decision:**

* Goes to the plenary.

**S4-210300** goes to the plenary.

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| [S4-210054](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210054.zip) | [FS\_5GMS-EXT] Key Topic Content Aware Streaming | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [**[8.8; 054; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content Aware Streaming -> for agreement**](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R115494) | Gabin, Frederic | Thu, 4 Feb 2021 08:27:29 +0000 |
| [**Re: [8.8; 054; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content Aware Streaming -> for agreement**](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R121727) | Richard Bradbur | Thu, 4 Feb 2021 11:35:32 +0000 |
| [**Re: [8.8; 054; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content Aware Streaming -> for agreement**](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R149) | Thomas Stockhammer | Mon, 8 Feb 2021 05:05:56 +0000 |
| [**Re: [8.8; 054; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content Aware Streaming -> for agreement**](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R4578) | Richard Bradbury | Mon, 8 Feb 2021 11:57:41 +0000 |
| [**Re: [8.8; 054; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content Aware Streaming -> for agreement**](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R5328) | Thomas Stockhammer | Mon, 8 Feb 2021 12:18:20 +0000 |
| [**Re: [8.8; 054; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content Aware Streaming -> for agreement**](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R10265) | Gabin, Frederic | Mon, 8 Feb 2021 12:47:57 +0000 |
| [**Re: [8.8; 054; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Content Aware Streaming -> for agreement**](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R18627) | Richard Bradbury | Mon, 8 Feb 2021 15:28:37 +0000 |

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Richard: It is fine to study this. I am just a bit cynical about the use of the technology by content providers.

**Decision:**

* Agreed.

**S4-210054** is agreed.

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| [S4-210055](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210055.zip) | [FS\_5GMS-EXT] Key Topic Network Event usage | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.8; 055; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Network Event usage -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R115942) | Gabin, Frederic | Thu, 4 Feb 2021 08:31:03 +0000 |
| [Re: [8.8; 055; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Network Event usage -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R121885) | Richard Bradbury | Thu, 4 Feb 2021 11:41:33 +0000 |
| [Re: [8.8; 055; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Network Event usage -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R170441) | Imed Bouazizi | Fri, 5 Feb 2021 13:31:29 +0000 |
| [Re: [8.8; 055; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Network Event usage -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R174004) | Richard Bradbury | Fri, 5 Feb 2021 16:33:53 +0000 |
| [Re: [8.8; 055; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Network Event usage -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R174141) | Thorsten Lohmar | Fri, 5 Feb 2021 16:43:17 +0000 |
| [Re: [8.8; 055; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Network Event usage -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R174394) | Imed Bouazizi | Fri, 5 Feb 2021 16:52:53 +0000 |
| [Re: [8.8; 055; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Network Event usage -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R11030) | Gabin, Frederic | Mon, 8 Feb 2021 12:52:47 +0000 |

**Decision:**

* Revised via e-mail.

**S4-210055** is revised to S4-210301.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210055.zip)301 | [FS\_5GMS-EXT] Key Topic Network Event usage | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210055.

**Decision:**

* Agreed and goes to the plenary.

**S4-210301** is agreed and goes to the plenary.

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| [S4-210056](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210056.zip) | [FS\_5GMS-EXT] Key Topic Per-application-authorization | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.8; 056; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Per-application-authorization -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R116051) | Gabin, Frederic | Thu, 4 Feb 2021 08:32:21 +0000 |
| [Re: [8.8; 056; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] Per-application-authorization -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R11414) | Gabin, Frederic | Mon, 8 Feb 2021 12:53:30 +0000 |

**Decision:**

* Agreed via e-mail.

**S4-210056** is agreed.

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| [S4-210057](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210057.zip) | [FS\_5GMS-EXT] Key Topic Support for encrypted and high-value content | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

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| [[8.8; 057; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Support for encrypted and high-value content -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R115722) | Gabin, Frederic | Thu, 4 Feb 2021 08:33:34 +0000 |
| [Re: [8.8; 057; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Support for encrypted and high-value content -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R121970) | Richard Bradbury | Thu, 4 Feb 2021 11:44:50 +0000 |
| [Re: [8.8; 057; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Support for encrypted and high-value content -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R551) | Thomas Stockhammer | Mon, 8 Feb 2021 05:33:08 +0000 |
| [Re: [8.8; 057; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Support for encrypted and high-value content -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R11561) | Gabin, Frederic | Mon, 8 Feb 2021 12:55:13 +0000 |
| [Re: [8.8; 057; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Support for encrypted and high-value content -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R13265) | Richard Bradbury | Mon, 8 Feb 2021 13:00:30 +0000 |
| [Re: [8.8; 057; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Support for encrypted and high-value content -> for agreemen](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R13401) | Thomas Stockhammer | Mon, 8 Feb 2021 13:18:21 +0000 |

**Decision:**

* Revised via e-mail.

**S4-210057** is revised to S4-210302.

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| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210057.zip)302 | [FS\_5GMS-EXT] Key Topic Support for encrypted and high-value content | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210057.

**Presenter: Thomas Stockhammer (Qualcomm)**

**Decision:**

* Agreed.

**S4-210302** is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210058](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210058.zip) | [FS\_5GMS-EXT] Key Topic Scalable distribution of unicast Live Services | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[8.8; 058 Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Scalable distribution of unicast Live Services -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R115832) | Gabin, Frederic | Thu, 4 Feb 2021 08:34:51 +0000 |
| [Re: [8.8; 058 Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Scalable distribution of unicast Live Services -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R122056) | Richard Bradbury | Thu, 4 Feb 2021 11:52:56 +0000 |
| [Re: [8.8; 058 Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Scalable distribution of unicast Live Services -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R2) | Thomas Stockhammer | Mon, 8 Feb 2021 04:51:17 +0000 |
| [Re: [8.8; 058 Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Scalable distribution of unicast Live Services -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R3632) | Richard Bradbury | Mon, 8 Feb 2021 11:43:42 +0000 |
| [Re: [8.8; 058 Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Scalable distribution of unicast Live Services -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R5112) | Thomas Stockhammer | Mon, 8 Feb 2021 12:15:06 +0000 |
| [Re: [8.8; 058 Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Scalable distribution of unicast Live Services -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R12994) | Gabin, Frederic | Mon, 8 Feb 2021 12:56:50 +0000 |
| [Re: [8.8; 058 Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Scalable distribution of unicast Live Services -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R13655) | Richard Bradbury | Mon, 8 Feb 2021 13:22:42 +0000 |
| [Re: [8.8; 058 Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Scalable distribution of unicast Live Services -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R16521) | Thomas Stockhammer | Mon, 8 Feb 2021 14:54:59 +0000 |
| [Re: [8.8; 058 Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Scalable distribution of unicast Live Services -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R17877) | Richard Bradbury | Mon, 8 Feb 2021 15:22:12 +0000 |
| [Re: [8.8; 058 Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] on Scalable distribution of unicast Live Services -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R18938) | Thomas Stockhammer | Mon, 8 Feb 2021 15:31:46 +0000 |

**Decision:**

* Revised via e-mail.

**S4-210058** is revised to S4-210303.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210058.zip)303 | [FS\_5GMS-EXT] Key Topic Scalable distribution of unicast Live Services | Qualcomm Incorporated | Thomas Stockhammer |

**E-mail Discussion:**

See S4-210058.

**Presenter: Thomas Stockhammer (Qualcomm)**

**Discussion:**

* Thomas: According to comments received by e-mail, “scalable” has been replaced by TV-grade mass.
* Thorsten: Is it relevant to integrate HTTP/2 et /3 in addition of HTTP/1.1?
* Thomas: Yes.
* Richard: About the title (TV-grade mass distribution), I don’t know if it is possible to also correct the SID.
* Thomas: We don’t change the scope, I don’t think it is needed.
* Richard: OK if we have a gentlemen agreement.
* Thorsten: Should I add the note on HTTP/2?
* Thomas: OK.

**Decision:**

* Agreed.

**S4-210303** is agreed.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210101](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210101.zip) | FS\_5GMS\_EXT: Content preparation deployment scenarios and functional description | Tencent | Iraj Sodagar |

**E-mail Discussion:**

See S4-210049.

**Decision:**

* Merged in 306, the revision of 049.

**S4-210101** is merged into S4-2100306.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210104](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210104.zip) | FS\_5GMS\_EXT: Proposed workplan | Tencent, Ericsson | Iraj Sodagar |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[8.8; 104; Block B; 08Feb 1200] [FS\_5GMS\_EXT ] Proposed workplan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R114696) | Gabin, Frederic | Thu, 4 Feb 2021 08:26:18 +0000 |
| [Re: [8.8; 104; Block B; 08Feb 1200] [FS\_5GMS\_EXT ] Proposed workplan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R188512) | Thomas Stockhammer | Sun, 7 Feb 2021 21:25:50 +0000 |
| [Re: [8.8; 104; Block B; 08Feb 1200] [FS\_5GMS\_EXT ] Proposed workplan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R5896) | Gabin, Frederic | Mon, 8 Feb 2021 12:20:29 +0000 |
| [Re: [8.8; 104; Block B; 08Feb 1200] [FS\_5GMS\_EXT ] Proposed workplan -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R27187) | Iraj Sodagar | Tue, 9 Feb 2021 07:06:03 +0000 |

**Decision:**

* Revised via e-mail.

**S4-210104** is revised to S4-210297.

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| --- | --- | --- | --- |
| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210104.zip)297 | FS\_5GMS\_EXT: Proposed workplan | Tencent, Ericsson | Iraj Sodagar |

**E-mail Discussion:**

See S4-210104.

**Decision:**

* Goes to the plenary

**S4-210297** goes to the plenary.

|  |  |  |  |
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| [S4-210136](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210136.zip) | First version of TR 26.804 "Study on 5G media streaming extensions" | Ericsson LM | Thorsten Lohmar |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [**[8.8; 136; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] First version of TR 26.804 "Study on 5G media streaming extensions" -> for agreement as basis for further work**](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R114806) | Gabin, Frederic | Thu, 4 Feb 2021 08:26:30 +0000 |
| [**Re: [8.8; 136; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] First version of TR 26.804 "Study on 5G media streaming extensions" -> for agreement as basis for further work**](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&P=R189096) | Thomas Stockhammer | Sun, 7 Feb 2021 21:30:11 +0000 |
| [**Re: [8.8; 136; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] First version of TR 26.804 "Study on 5G media streaming extensions" -> for agreement as basis for further work**](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R6510) | Gabin, Frederic | Mon, 8 Feb 2021 12:23:24 +0000 |
| [**Re: [8.8; 136; Block B; 08Feb 1200] [FS\_5GMS\_EXT TR 26.804] First version of TR 26.804 "Study on 5G media streaming extensions" -> for agreement as basis for further work**](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&P=R19379) | Thorsten Lohmar | Mon, 8 Feb 2021 15:32:39 +0000 |

**Decision:**

* Revised.

**S4-210136** is revised to S4-210305.

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| --- | --- | --- | --- |
| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210136.zip)305 | First version of TR 26.804 "Study on 5G media streaming extensions" | Ericsson LM | Thorsten Lohmar |

**E-mail Discussion:**

See S4-210136.

**Decision:**

* Goes to the plenary

**S4-210305** goes to the plenary.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210155](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210155.zip) | Collaboration Scenarios for Uplink streaming | Ericsson LM | Bo Burman |

**E-mail Discussion:**

See S4-210052.

**Decision:**

* Merged via e-mail.

**S4-210155** is merged into S4-210299.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210156](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210156.zip) | Discussion on Traffic Identification | Ericsson LM | Bo Burman |

**E-mail Discussion:**

See S4-210050.

**Presenter: Thorsten Lohmar (Ericsson)**

**Discussion:**

* r2 based on Richard’s feedback.
* Imed: We should think of ways to merge with 050.
* Qi: Maybe it is better to add the study about the HTTP protocols also for Android.
* Thomas: We have an overlap.
* Imed: We have to make sure that new protocols are detectable, make sure that UPF can detect these new protocols.
* Thorsten: In the diagram, it is UDR and not UDF.
* Frédéric: We could move the HTTP study into an annex. We need to merge 050 and 156 taking as a basis.

**Decision:**

* Merged in 307, the revision of 050.

**S4-210156** is merged into S4-210307.

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210163](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210163.zip) | FS\_5GMS\_EXT: Uplink media streaming missing features | Tencent | Iraj Sodagar |

**E-mail Discussion:**

See S4-210052.

**Decision:**

* Merged via e-mail

**S4-210163** is merged into S4-210299.

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| --- | --- | --- | --- |
| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210163.zip)299 | FS\_5GMS-EXT pCR on text for inclusion in the TR section on uplink streaming | Qualcomm Incorporated, Ericsson LM, Tencent | Thorsten Lohmar |

**E-mail Discussion:**

See S4-210052.

**Decision:**

* Will be reviewed during the plenary.

**S4-210299** goes to the plenary.

## 8.9 New Work / New Work Items and Study Items

|  |  |  |  |
| --- | --- | --- | --- |
| [S4-210160](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210160.zip) | New Study Item on Media Production over 5G NPNs | Ericsson LM, AT&T, BBC, B-Com, Dolby Laboratories Inc., EBU, Orange | Bo Burman |

**E-mail Discussion:**

None triggered

**Decision:**

* Revised.

**S4-210160** is revised to S4-210240.

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| --- | --- | --- | --- |
| [S4-210](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210160.zip)240 | New Study Item on Media Production over 5G NPNs | Ericsson LM, AT&T, BBC, B-Com, Dolby Laboratories Inc., EBU, Orange | Bo Burman |

**E-mail Discussion:**

|  |  |  |
| --- | --- | --- |
| [[8.9; 240; Block B; 09Feb 1200] New SID on Study on Media Production over 5G NPN (FS\_5GNPN\_4\_AVProd) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102A&L=3GPP_TSG_SA_WG4_MBS&O=D&P=163273) | Gabin, Frederic | Thu, 4 Feb 2021 08:27:39 +0000 |
| [Re: [8.9; 240; Block B; 09Feb 1200] New SID on Study on Media Production over 5G NPN (FS\_5GNPN\_4\_AVProd) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=39985) | Ed O'Leary | Mon, 8 Feb 2021 17:57:33 +0000 |
| [Re: [8.9; 240; Block B; 09Feb 1200] New SID on Study on Media Production over 5G NPN (FS\_5GNPN\_4\_AVProd) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=44581) | Thomas Stockhammer | Tue, 9 Feb 2021 09:57:44 +0000 |
| [Re: [8.9; 240; Block B; 09Feb 1200] New SID on Study on Media Production over 5G NPN (FS\_5GNPN\_4\_AVProd) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=55182) | Thorsten Lohmar | Tue, 9 Feb 2021 13:23:16 +0000 |
| [Re: [8.9; 240; Block B; 09Feb 1200] New SID on Study on Media Production over 5G NPN (FS\_5GNPN\_4\_AVProd) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=56105) | Thomas Stockhammer | Tue, 9 Feb 2021 13:42:11 +0000 |
| [Re: [8.9; 240; Block B; 09Feb 1200] New SID on Study on Media Production over 5G NPN (FS\_5GNPN\_4\_AVProd) -> for agreement](https://list.etsi.org/scripts/wa.exe?A2=ind2102B&L=3GPP_TSG_SA_WG4_MBS&D=0&O=D&P=57219) | Thorsten Lohmar | Tue, 9 Feb 2021 19:52:18 +0000 |

**Decision:**

* Goes to the plenary.

**S4-210240** goes to the plenary.

## 8.10 Others including TEI

See 8.5

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

## 8.12 Any Other Business

## 8.13 Close of the session

The chairman thanked the delegates and closed the meeting at 1530 on 9th February 2021.

## Annex A: Attendees

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME LAST** | **FIRST** | **COMPANY** | **Attended** |
| Gabin | **Frédéric** | **Dolby** | Yes |
| Plante | **Fabrice** | **Apple** | Yes |
| Hu | **James** | **AT&T** | Yes |
| Biatek | **Thibaud** | **Ateme** | Yes |
| Bradbury | **Richard** | **BBC Research & Development** | Yes |
| Gao | **Fei** | **CMCC** | Yes |
| Yin | **Yujian** | **CMCC** | Yes |
| Bernhard | **Feiten** | **Deutsche Telekom** | Yes |
| Lee | **Brian** | **Dolby** | Yes |
| Ratkaj | **Darko** | **EBU** | Yes |
| Thienot | **Cédric** | **Enensys** | Yes |
| Heikkilä | **Gunnar** | **Ericsson** | Yes |
| Aracena | **Mauricio** | **Ericsson** | Yes |
| Lohmar | **Thorsten** | **Ericsson** | Yes |
| Yee Sin | **Chan** | **Facebook** | Yes |
| Sanchez | **Yago** | **Fraunhofer HHI** | Yes |
| Dohla | **Stefan** | **Fraunhofer IIS** | Yes |
| Hall | **Eddy** | **Huawei** | Yes |
| Pan | **Qi** | **Huawei** | Yes |
| Howells | **Elfed** | **Huawei** | Yes |
| Liu | **Yan** | **Huawei** | Yes |
| Fourdeux | **Henri** | **InterDigital** | Yes |
| Hamza | **Ahmed** | **InterDigital Communications** | Yes |
| Houdaille | **Rémi** | **InterDigital** | Yes |
| Martin-Cocher | **Gaelle** | **InterDigital** | Yes |
| Woosuk | **Kwon** | **LG Electronics Inc.** | Yes |
| Han | **Jaeshin** | **LG Electronics Inc.** | Yes |
| Saha | **Jayeeta** | **MCC** | Yes |
| Wang | **Dong** | **OPPO** | Yes |
| Lemotheux | **Julien** | **Orange** | Yes |
| Bouazizi | **Imed** | **Qualcomm Incorporated** | Yes |
| Lo | **Charles** | **Qualcomm Incorporated** | Yes |
| Stockhammer | **Thomas** | **Qualcomm Incorporated** | Yes |
| O’Leary | **Edward** | **Rogers** | Yes |
| Lee | **Ryan** | **Samsung** | Yes |
| Rhyu | **Sungryeul** | **Samsung** | Yes |
| Yang | **Hyun-Koo** | **Samsung Electronics** | Yes |
| Song | **Jaeyeon** | **Samsung** | Yes |
| Joshi | **Rajan** | **Samsung** | Yes |
| Prakash | **Kolan** | **Samsung** | Yes |
| Szucs | **Paul** | **Sony Corporation** | Yes |
| Isberg | **Peter** | **Sony** | Yes |
| Gibellino | **Diego** | **Telecom Italia** | Yes |
| Tan | **Peng** | **TELUS** | Yes |
| Sodagar | **Iraj** | **Tencent America** | Yes |
| Teniou | **Gilles** | **Tencent** | Yes |
| Abhishek | **Rohit** | **Tencent** | Yes |
| Li | **Qiuting** | **ZTE** | Yes |

# Annex B: Final agenda

|  |  |  |  |
| --- | --- | --- | --- |
| A.I. | Title of A.I. | Block |  |
| 8 | Multicast-Broadcast-Streaming (MBS) SWG | - |  |
| 8.1 | Opening of the session | A |  |
| 8.2 | Registration of documents | A |  |
| 8.3 | Reports/Liaisons from other groups/meetings | A | 003 (DVB/MABR) -> MBS SWG -> reply in 225->310a (plenary)004n (SCTE/DASH) -> MBS SWG -> noted318 (RAN3) -> postponed |
| 8.4 | Issues for immediate consideration | A |  |
| 8.5 | CRs to features in Release 16 and earlier | A | 135a (plenary), 042->228->246a (plenary), 116->229a (plenary), 117n, 082->230pp, 159n, 044->140->226a, 227->247a (plenary), 012a, 038a, 134->232a, 157a, 158->241a, 174a (plenary), 106->235-> 311a (plenary), 231->317 (plenary)Open API: 296->309n~~039~~, ~~043~~ |
| 8.6 | FS\_5GMS\_Multicast (Feasibility Study on Multicast Architecture Enhancements for 5GMSA) | A | TR: 081->233->245 (plenary)TP: 080->234a (plenary)046->236->249a, 047->237->250a, 048->238->251->308a, 079a, 152a, 153->239a, 154->244aLS: 242->312->319 (plenary)SID update: 243->248 (plenary)~~045~~ |
| 8.7 | FS\_EMSA (Feasibility Study on Streaming Architecture extensions For Edge processing) | B | 083->253->304a084->313a161->254->320 (plenary), 085->295n, 100pa, 120n162->252nTR: 321 (plenary)TP: 322 (plenary) |
| 8.8 | FS\_5GMS\_EXT (Study on 5G media streaming extensions) | B | TP: 104->297 (plenary)TR: 136->305 (plenary)Content prep: 049->306 (plenary), 101m(->306)Traffic Id: 050->307 (plenary), 156m(in 307)Transport: 051->298aUplink: 052m, 155m, 163m all merged into 299 (plenary)Background: 053->300 (plenary)Content aware: 054aNw Events: 055->301 (plenary)App auth: 056aContent prot.: 057->302aLive: 058->303a |
| 8.9 | New Work / New Work Items and Study Items | B | 160->240 (plenary) |
| 8.10 | Others including TEI | B |  |
| 8.11 | Review of the future work plan (next meeting dates, hosts) | B |  |
| 8.12 | Any Other Business | B |  |
| 8.13 | Close of the session | B |  |
| 12 | LSs received during the meeting and Postponed Liaisons (from A. I. 5) | Plenary |  |
| 13 | Reports and general issues from sub-working-groups | Plenary |  |
| 13.1 | EVS SWG | Plenary |  |
| 13.2 | MBS SWG | Plenary |  |
| 13.3 | MTSI SWG | Plenary |  |
| 13.4 | SQ SWG | Plenary |  |
| 13.5 | Video SWG | Plenary |  |
| 14 | CRs to features in Release 16 and earlier | Plenary | TS 26.346: 135aTS 26.512: 174->292PP, 317TS 26.511: 246aTS 26.501: 229aLS on DASH: 247->293appLS to SA2/CT3: 311 |
| 15 | Release 17 Features | Plenary |  |
| 15.1 | IVAS\_Codec (EVS Codec Extension for Immersive Voice and Audio Services) | Plenary |  |
| 15.2 | ITT4RT (Support of Immersive Teleconferencing and Telepresence for Remote Terminals) | Plenary |  |
| 15.3 | ATIAS (Terminal Audio quality performance and Test methods for Immersive Audio Services) | Plenary |  |
| 15.4 | HaNTE (Handsets Featuring Non-Traditional Earpieces) | Plenary |  |
| 15.5 | HInT (Extension for headset interface tests of UE) | Plenary |  |
| 15.6 | 8K\_VR\_5G (Operation Points for 8K VR 360 Video over 5G) | Plenary |  |
| 15.7 | TEI17 and any other Rel-17 documents | Plenary |  |
| 16 | Study Items | Plenary |  |
| 16.1 | FS\_5GMS\_Multicast (Feasibility Study on Multicast Architecture Enhancements for 5GMSA) | Plenary | TR 26.802: 245TP: 234SID: 248LS: 319 |
| 16.2 | FS\_XRTraffic (Feasibility Study on Typical Traffic Characteristics for XR Services and other Media) | Plenary |  |
| 16.3 | FS\_EMSA (Feasibility Study on Streaming Architecture extensions For Edge processing) | Plenary | Architecture: 320TR: 321TP: 322 |
| 16.4 | FS\_VR\_CoGui (Feasibility Study on VR Streaming Conformance and Guidelines) | Plenary |  |
| 16.5 | FS\_5GVideo (Feasibility Study on 5G Video Codec Characteristics) | Plenary |  |
| 16.6 | FS\_FLUS\_NBMP (Feasibility Study on the use of NBMP in E\_FLUS) | Plenary |  |
| 16.7 | FS\_5GSTAR (Feasibility Study on 5G Glass-type AR/MR Devices) | Plenary |  |
| 16.8 | FS\_5GMS\_EXT (Study on 5G media streaming extensions) | Plenary | pCRs: 306, 307, 299, 300, 301TR: 305TP: 297 |
| 17 | Work Items and Study Items under the responsibility of other TSGs/WGs impacting SA4 work | Plenary |  |
| 18 | New Work / New Work Items and Study Items | Plenary | 240 |
| 19 | Postponed issues | Plenary |  |
| 20 | Review of the future work plan (next meeting dates, hosts) | Plenary |  |
| 21 | Any Other Business | Plenary |  |
| 22 | Close of meeting: Wednesday February 10th, at 18:00 hours CET (at the latest) | Plenary |  |

# Annex C - Documents status

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **For** | **SWG Agenda item** | **TDoc Status** | **Revised to** | **Plenary Agenda item** |
| [**S4-210012**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210012.zip) | Essential corrections to Consumption Reporting APIs | BBC, Enensys Technology, Ericsson | Agreement | 8.5 | **agreed** |  | - |
| [**S4-210038**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210038.zip) | Replacement client architecture figures | BBC | Agreement | 8.5 | **agreed** |  | - |
| [**S4-210054**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210054.zip) | [FS\_5GMS-EXT] Key Topic Content Aware Streaming | Qualcomm Incorporated | Agreement | 8.8 | **Agreed** |  | - |
| [**S4-210056**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210056.zip) | [FS\_5GMS-EXT] Key Topic Per-application-authorization | Qualcomm Incorporated | Agreement | 8.8 | **Agreed** |  | - |
| [**S4-210079**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210079.zip) | pCR TR 26.802 - key issues on MABR support in 5GMS | TELUS, BBC, Qualcomm, Ericsson, Telecom Italia, Enensys | Agreement | 8.6 | **agreed** |  | - |
| [**S4-210100**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210100.zip) | FS\_EMSA: Architecture update | Tencent | Agreement | 8.7 | **Partially agreed** |  | - |
| [**S4-210152**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210152.zip) | Review of xMB-C wrt User Plane properties | Ericsson LM, BBC | Agreement | 8.6 | **agreed** |  | - |
| [**S4-210157**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210157.zip) | M5 definition in OpenAPI 3.0 format | Ericsson LM | Agreement | 8.10 | **Agreed** |  | - |
| S4-210226 | 3GPP DASH – More relevant than ever? | Qualcomm Incorporated, Comcast, Orange, Dolby Laboratories, Tencent, Ericsson LM, BBC, InterDigital |  | 8.5 | **agreed** |  | - |
| S4-210239 | New Key Issue on 'Collaboration and deployment scenarios' | Ericsson LM |  | 8.6 | **Agreed** | **-** | - |
| S4-210241 | Draft CR to TS 26.512 on removal of editor’s notes and handling of multiple AF instances | Ericsson LM |  | 8.5 | **Agreed** | **-** | - |
| S4-210244 | Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS | Ericsson LM |  | 8.6 | **Agreed** | **-** | - |
| S4-210249 | [FS\_5GMS\_Multicast] Client Architectures | Qualcomm Incorporated |  | 8.6 | **Agreed** | **-** | - |
| S4-210250 | [FS\_5GMS\_Multicast] Hybrid use case | Qualcomm Incorporated |  | 8.6 | **Agreed** | **-** | - |
| S4-210298 | [FS\_5GMS-EXT] Key Topic Additional / New transport protocols | Qualcomm Incorporated |  | 8.8 | **Agreed** | **-** | - |
| S4-210302 | [FS\_5GMS-EXT] Key Topic Support for encrypted and high-value content | Qualcomm Incorporated |  | 8.8 | **Agreed** | **-** | - |
| S4-210303 | [FS\_5GMS-EXT] Key Topic Scalable distribution of unicast Live Services | Qualcomm Incorporated |  | 8.8 | **Agreed** | **-** | - |
| S4-210304 | Clarification of EAS discovery solutions during UE mobility in SA2 | HUAWEI Technologies Japan K.K., BBC |  | 8.7 | **Agreed** | **-** | - |
| S4-210308 | [FS\_5GMS\_Multicast] Interworking with EPC and enTV | Qualcomm Incorporated |  | 8.6 | **Agreed** | **-** | - |
| S4-210313 | Overview of concluded edge application relocation solutions in SA2 | HUAWEI Technologies Japan K.K. |  | 8.7 | **Agreed** | **-** | - |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **For** | **SWG Agenda item** | **TDoc Status** | **Revised to** | **Plenary Agenda item** |
| [**S4-210135**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210135.zip) | Bug Fix on Main USD Schema in Annex J.1 | Qualcomm Incorporated | Agreement | 8.5 | **Agreed** |  | 14 |
| S4-210229 | CR to TS 26.501 0027 on clarifications and corrections (Rel-16) | Samsung Electronics Co., Ltd |  | 8.5 | **Agreed** | **-** | 14 |
| S4-210234 | [FS\_5GMS\_Multicast] Updated time and work plan | Rapporteur (TELUS) |  | 8.6 | **Agreed** | **-** | 16.1 |
| S4-210246 | CR to TS 26.511 0002 rev1 on various corrections (Rel-16) | Qualcomm Incorporated, BBC |  | 8.5 | **Agreed** | **-** | 14 |
| S4-210247 | LS to ISO/IEC JTC1 on DASH | MBS (Thomas) |  | 8.5 | **Agreed** | **-** | 14 |
| S4-210310 | Response LS to Liaison from DVB on Phase I technical specification “DVB-MABR” | Dolby Laboratories Inc. |  | 8.3 | **Agreed** | **-** | 5.3 |
| S4-210311 | Draft LS on App ID Usage in NEF Related Service API | HUAWEI Technologies Japan K.K. |  | 8.5 | **Agreed** | **-** | 14 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **For** | **SWG Agenda item** | **TDoc Status** | **Revised to** | **Plenary Agenda item** |
| [**S4-210003**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210003.zip) | Liaison from DVB on Phase I technical specification “DVB-MABR” | 3GPP MCC | Decision | 5.3 | **Replied to** |  | - |
| [**S4-210004**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210004.zip) | Liaison on availability of DASH | 3GPP MCC | Presentation | 5.3 | **noted** |  | - |
| S4-210039 | Corrections on Procedures and APIs for Downlink and Uplink Streaming | Qualcomm Incorporated, BBC | Agreement | 8.5 | withdrawn |  | - |
| [**S4-210042**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210042.zip) | Proposed Corrections to TS 26.511 | Qualcomm Incorporated | Agreement | 8.5 | **revised** | **S4-210228** | - |
| S4-210043 | Proposed Corrections to TS 26.512 | Qualcomm Incorporated | Agreement | 8.5 | withdrawn |  | - |
| [**S4-210044**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210044.zip) | 3GPP DASH – More relevant than ever? | Qualcomm Incorporated, Comcast, Orange, Dolby Laboratories | Agreement | 8.5 | **revised** | [**S4-210140**](https://portal.3gpp.org/ngppapp/CreateTdoc.aspx?mode=view&contributionId=1188127) | - |
| S4-210045 | [FS\_5GMS\_Multicast] Key issue on re-use of MBMS service layer | Qualcomm Incorporated | Agreement | 8.6 | withdrawn |  | - |
| [**S4-210046**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210046.zip) | [FS\_5GMS\_Multicast] Client Architectures | Qualcomm Incorporated | Agreement | 8.6 | **revised** | **S4-210236** | - |
| [**S4-210047**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210047.zip) | [FS\_5GMS\_Multicast] Hybrid use case | Qualcomm Incorporated | Agreement | 8.6 | **revised** | **S4-210237** | - |
| [**S4-210048**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210048.zip) | [FS\_5GMS\_Multicast] Interworking with EPC and enTV | Qualcomm Incorporated | Agreement | 8.6 | **revised** | **S4-210238** | - |
| [**S4-210049**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210049.zip) | [FS\_5GMS-EXT] Key Topic Content Preparation | Qualcomm Incorporated | Agreement | 8.8 | **revised** | **S4-210306** | - |
| [**S4-210050**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210050.zip) | [FS\_5GMS-EXT] Key Topic Traffic Identification | Qualcomm Incorporated | Agreement | 8.8 | **revised** | **S4-210307** | - |
| [**S4-210051**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210051.zip) | [FS\_5GMS-EXT] Key Topic Additional / New transport protocols | Qualcomm Incorporated | Agreement | 8.8 | **revised** | **S4-210298** | - |
| [**S4-210052**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210052.zip) | [FS\_5GMS-EXT] Key Topic Uplink media streaming | Qualcomm Incorporated | Agreement | 8.8 | **merged** | **S4-210306** | - |
| [**S4-210053**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210053.zip) | [FS\_5GMS-EXT] Key Topic Background traffic | Qualcomm Incorporated | Agreement | 8.8 | **revised** | **S4-210300** | - |
| [**S4-210055**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210055.zip) | [FS\_5GMS-EXT] Key Topic Network Event usage | Qualcomm Incorporated | Agreement | 8.8 | **revised** | **S4-210301** | - |
| [**S4-210057**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210057.zip) | [FS\_5GMS-EXT] Key Topic Support for encrypted and high-value content | Qualcomm Incorporated | Agreement | 8.8 | **revised** | **S4-210302** | - |
| [**S4-210058**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210058.zip) | [FS\_5GMS-EXT] Key Topic Scalable distribution of unicast Live Services | Qualcomm Incorporated | Agreement | 8.8 | **revised** | **S4-210303** |  |
| [**S4-210080**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210080.zip) | [FS\_5GMS\_Multicast] Updated time and work plan | TELUS |  | 8.6 | **revised** | **S4-210234** | - |
| [**S4-210081**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210081.zip) | draft TR 26.802 | TELUS | Agreement | 8.6 | **revised** | **S4-210233** | - |
| [**S4-210082**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210082.zip) | Removal of Editor’s notes in 5GMS3 | HUAWEI Technologies Japan K.K. | Agreement | 8.5 | **revised** | **S4-210230** | - |
| [**S4-210083**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210083.zip) | Clarification of EAS discovery solutions during UE mobility in SA2 | HUAWEI Technologies Japan K.K. | Agreement | 8.7 | **revised** | **S4-210253** | - |
| [**S4-210084**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210084.zip) | Overview of concluded edge application relocation solutions in SA2 | HUAWEI Technologies Japan K.K. | Agreement | 8.7 | **revised** | **S4-210313** | - |
| [**S4-210085**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210085.zip) | Discussion for architecture mapping from SA6 to SA4 | HUAWEI Technologies Japan K.K. | Agreement | 8.7 | **revised** | **S4-210295** | - |
| [**S4-210101**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210101.zip) | FS\_5GMS\_EXT: Content preparation deployment scenarios and functional description | Tencent | Agreement | 8.8 | **merged** | **S4-210306** | - |
| [**S4-210104**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210104.zip) | FS\_5GMS\_EXT: Proposed workplan | Tencent, Ericsson | Agreement | 8.8 | **revised** | **S4-210297** | - |
| [**S4-210106**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210106.zip) | Draft LS on App ID Usage in NEF Related Service API | HUAWEI Technologies Japan K.K. | Agreement | 8.5 | **revised** | **S4-210235** | - |
| [**S4-210116**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210116.zip) | Editorial Improvements | Samsung Electronics Co., Ltd | Agreement | 8.5 | **revised** | **S4-210229** | - |
| [**S4-210117**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210117.zip) | On editorial improvement on TS 26.501 | Samsung Electronics Co., Ltd | Agreement | 8.5 | **noted** |  | - |
| [**S4-210120**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210120.zip) | On EMSA architecture | Samsung Electronics Co., Ltd | Agreement | 8.7 | **noted** |  | - |
| [**S4-210134**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210134.zip) | Corrections on Procedures and APIs for Downlink and Uplink Streaming | Qualcomm Incorporated, BBC, Ericsson LM | Agreement | 8.5 | **revised** | **S4-210232** | - |
| [**S4-210136**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210136.zip) | First version of TR 26.804 "Study on 5G media streaming extensions" | Ericsson LM |  | 8.8 | **revised** | **S4-210305** | - |
| [**S4-210140**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210140.zip) | 3GPP DASH – More relevant than ever? | Qualcomm Incorporated, Comcast, Orange, Dolby Laboratories, Tencent | Agreement | 8.5 | **revised** | **S4-210226** | - |
| [**S4-210153**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210153.zip) | New Key Issue on 'Collaboration and deployment scenarios' | Ericsson LM | Agreement | 8.6 | **revised** | **S4-210239** | - |
| [**S4-210154**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210154.zip) | Discussion on the scope of FS\_5GMS-Multicast wrt 5MBS | Ericsson LM | Agreement | 8.6 | **revised** | **S4-210244** | - |
| [**S4-210155**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210155.zip) | Collaboration Scenarios for Uplink streaming | Ericsson LM | Agreement | 8.8 | **Merged** | **S4-210299** | - |
| [**S4-210156**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210156.zip) | Discussion on Traffic Identification | Ericsson LM | Agreement | 8.8 | **Merged** | **S4-210307** | - |
| [**S4-210158**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210158.zip) | Various Corrections | Ericsson LM | Agreement | 8.10 | **revised** | **S4-210241** | - |
| [**S4-210159**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210159.zip) | Discussion on PFD referencing within Dynamic Policy API | Ericsson LM | Discussion | 8.10 | **Noted** |  | - |
| [**S4-210160**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210160.zip) | New Study Item on Media Production over 5G NPNs | Ericsson LM, AT&T, BBC, B-Com, Dolby Laboratories Inc., EBU, Orange | Agreement | 8.9 | **revised** | **S4-210240** | - |
| [**S4-210161**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210161.zip) | EMSA architecture | Qualcomm Wireless GmbH |  | 8.7 | **revised** | **S4-210254** | - |
| [**S4-210162**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210162.zip) | Split Rendering Use Case Walkthrough | Qualco-mm Wireless GmbH- |  | 8.7 | **noted** | **S4-210252** | - |
| [**S4-210163**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_112-e/Docs/S4-210163.zip) | FS\_5GMS\_EXT: Uplink media streaming missing features | Tencent | Agreement | 8.8 | **Merged** | **S4-210299** | - |
| S4-210225 | Response LS to Liaison from DVB on Phase I technical specification “DVB-MABR” | Dolby Laboratories Inc. |  | 8.3 | Revised | S4-210310 | - |
| S4-210227 | LS to ISO/IEC JTC1 on DASH | MBS (Thomas) |  | 8.5 | Revised | S4-210247 | - |
| S4-210228 | Draft CR to TS 26.511 on various corrections (Rel-16) | Qualcomm Incorporated, BBC |  | 8.5 | Revised | S4-210246 | - |
| S4-210230 | CR to TS 26.512 0003 Removal of Editor’s notes in 5GMS3 (Rel-16) | HUAWEI Technologies Japan K.K. |  | 8.5 | **Postponed** | **-** | - |
| S4-210231 | Draft CR to TS 26.512 Corrections on Procedures and APIs for Downlink and Uplink Streaming and other corrections (Rel-16) | Ericsson LM, BBC, Enensys Technologies, Qualcomm Incorporated |  | 8.5 | Revised | S4-210317 | - |
| S4-210233 | Draft TR 26.802 Multicast Architecture Enhancement for 5G Media Streaming | Editor (TELUS) |  | 8.6 | Revised | S4-210245 | - |
| S4-210235 | Draft LS on App ID Usage in NEF Related Service API | HUAWEI Technologies Japan K.K. |  | 8.5 | Revised | S4-210311 | - |
| S4-210236 | [FS\_5GMS\_Multicast] Client Architectures | Qualcomm Incorporated |  | 8.6 | Revised | S4-210249 | - |
| S4-210237 | [FS\_5GMS\_Multicast] Hybrid use case | Qualcomm Incorporated |  | 8.6 | Revised | S4-210250 | - |
| S4-210238 | [FS\_5GMS\_Multicast] Interworking with EPC and enTV | Qualcomm Incorporated |  | 8.6 | Revised | S4-210251 | - |
| S4-210242 | LS to SA2 and SA6 on FS\_5GMS\_Multicast and 5MBS TBD | Ericsson LM |  | 8.6 | Revised | S4-210312 | - |
| S4-210243 | Draft revised SID FS\_5GMS\_Multicast | Rapporteur (TELUS) |  | 8.6 | Revised | S4-210248 | - |
| S4-210251 | [FS\_5GMS\_Multicast] Interworking with EPC and enTV | Qualcomm Incorporated |  | 8.6 | Revised | S4-210308 | - |
| S4-210252 | Split Rendering Use Case Walkthrough | Qualcomm Wireless GmbH |  | 8.6 | **Noted** | **-** | - |
| S4-210253 | Clarification of EAS discovery solutions during UE mobility in SA2 | HUAWEI Technologies Japan K.K., BBC |  | 8.7 | Revised | S4-210304 | - |
| S4-210254 | EMSA architecture | Qualcomm Wireless GmbH |  | 8.7 | Revised | S4-210320 | - |
| S4-210295 | Discussion for architecture mapping from SA6 to SA4 | HUAWEI Technologies Japan K.K. |  | 8.7 | **Noted** | **-** | - |
| S4-210296 | Discussion on 3GPP OpenAPI documentation guidelines | Ericsson LM., …. |  | 8.5 | Revised | S4-210309 | - |
| S4-210309 | Discussion on 3GPP OpenAPI documentation guidelines | Ericsson LM., …. |  | 8.5 | **Noted** | **-** | - |
| S4-210312 | Reply LS on Service Layer aspects for 5G MBS (to SA2) | Ericsson LM |  | 8.6 | Revised | S4-210319 | - |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **For** | **SWG Agenda item** | **TDoc Status** | **Revised to** | **Plenary Agenda item** |
| S4-210240 | New Study Item on Media Production over 5G NPNs | Ericsson LM, AT&T, B-Com, BBC, Dolby Laboratories Inc., EBU, Orange, Sennheiser Electronic GmbH, Verizon UK Ltd |  | 8.9 | **Available** | **-** | 18 |
| S4-210245 | Draft TR 26.802 v0.3.0 Multicast Architecture Enhancement for 5G Media Streaming | Editor (TELUS) |  | 8.6 | **Available** | **-** | 16.1 |
| S4-210248 | Draft revised SID FS\_5GMS\_Multicast | Rapporteur (TELUS) |  | 8.6 | **available** | **-** | 16.1 |
| S4-210297 | FS\_5GMS\_EXT: Proposed workplan | Rapporteurs (Tencent, Ericsson) |  | 8.8 | **Available** | **-** | 16.8 |
| S4-210299 | FS\_5GMS-EXT pCR on text for inclusion in the TR section on uplink streaming | Qualcomm Incorporated, Ericsson LM, Tencent |  | 8.8 | **Available** | **-** | 16.8 |
| S4-210300 | [FS\_5GMS-EXT] Key Topic Background traffic | Qualcomm Incorporated |  | 8.8 | **Available** | **-** | 16.8 |
| S4-210301 | [FS\_5GMS-EXT] Key Topic Network Event usage | Qualcomm Incorporated |  | 8.8 | **Available** | **-** | 16.8 |
| S4-210305 | Drat TR 26.804 v0.1.0 "Study on 5G media streaming extensions" | Ericsson LM |  | 8.8 | **Available** | **-** | 16.8 |
| S4-210306 | [FS\_5GMS-EXT] Key Topic Content Preparation | Qualcomm Incorporated, Tencent |  | 8.8 | **Available** | **-** | 16.8 |
| S4-210307 | [FS\_5GMS-EXT] Key Topic Traffic Identification | Qualcomm Incorporated, Ericsson LM |  | 8.8 | **Available** | **-** | 16.8 |
| S4-210314 | MBS SWG report at SA4#112-e | Dolby Laboratories Inc. |  | 13.2 | **reserved** | **-** | 13.2 |
| S4-210317 | CR to TS 26.512 0008 Aggregated corrective CR(Rel-16) | Ericsson LM, BBC, Enensys Technologies, Qualcomm Incorporated |  | 8.5 | **Available** | **-** | 14 |
| S4-210319 | LS on Service Layer aspects for 5G MBS (to SA2) | Ericsson LM |  | 8.6 | **available** | **-** | 16.1 |
| S4-210320 | EMSA architecture | Qualcomm Wireless GmbH |  | 8.7 | **Reserved** | **-** | 16.3 |
| S4-210321 | TR EMSA | Qualcomm Wireless GmbH |  | 8.7 | **Reserved** | **-** | 16.3 |
| S4-210322 | TP EMSA | Qualcomm Wireless GmbH |  | 8.7 | **Reserved** | **-** | 16.3 |

1. **Frédéric Gabin**

   Email: frederic.gabin@dolby.com

   Tel (mobile): +33 678 44 85 75

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