3GPP SA4-e (AH) MBS SWG post 129e

# 2 Multicast-Broadcast-Streaming (MBS) SWG

## 2.1 Opening of the session and registration of documents

### 2.1.1 Opening of Session

Frédéric Gabin (SA4 and MBS SWG chair, Dolby) opened the session on September 26, 2024 at 15:30 CEST.

Good evening, good morning, good afternoon.

Online information:

* Details of this meeting can be found here: https://portal.3gpp.org/Home.aspx#/meeting?MtgId=60816
* TDoc List: https://portal.3gpp.org/ngppapp/TdocList.aspx?meetingId=60816
* Excel Docs: https://portal.3gpp.org/ngppapp/GenerateDocumentList.Aspx?meetingId=60816

Schedule:

1. 3GPP SA4 MBS SWG Telco (Sep 26, 2024, 15:30 – 17:30 CEST, Host Qualcomm)
2. 3GPP SA4 MBS SWG Telco (Oct 10, 2024, 15:30 – 17:30 CEST, Host Qualcomm)
3. 3GPP SA4 MBS SWG Meeting (October 16-18 2024, online, Host Qualcomm, submission deadline: Monday 14th October 23:59) – SA4 Power to send LSs relating to MBS A.I.s
4. 3GPP SA4 MBS SWG Telco (Oct 24, 2024, 15:30 – 17:30 CEST, Host Qualcomm)

The minutes are shared online: [3GPP SA4-e (AH) MBS SWG post 129e](https://docs.google.com/document/d/149-Zl8YpuhH-Np_XwznANd73gkz_hlbcN49Ecn1Ft0c/edit?usp=sharing)

September 26, 2024:

* Thomas Stockhammer (Qualcomm) and Julien Lemontheux (Orange) are assigned as scribes.

October 10, 2024:

* Thomas Stockhammer (Qualcomm), Daniel Venmani (Nokia) and Julien Lemontheux (Orange) are assigned as scribes.

Discussion on Sep 26, 2024:

Single report for the entire post SA4#129 MBS SWG?

* Thomas: Is it possible to have only one MBS report for all the sessions between 2 3GPP SA4 meetings? This would reduce the administrative work.
  + Frederic: We need to have an accurate attendance list per meeting.
  + Thorsten: We could have one attendance list per session.
  + Richard: We could also have one agenda per session
  + Frederic: If we have one attendance list per session and the date of the review of each contribution, it addresses my concerns.
* Prakash: It would be interesting to publish the Google Docs link somewhere?
  + Thomas: We could use the draft folder of this. If the report is available, the link is included.

### 2.1.2 Registration of Documents

The following documents were registered:

| TDoc | Title | Source | Agenda item |
| --- | --- | --- | --- |
| [S4aI240115](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240115.zip) | [FS\_AMD] WT1: CMCD call flows | BBC | 2.6 |
| [S4aI240116](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240116.zip) | [5GMS3, TEI17] Align OpenAPI YAML with normative descriptions | BBC | 2.4 |
| [S4aI240117](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240117.zip) | [iRTCW, 5GMS\_Pro\_Ph2] Authorising Media AS access to the Media AF at reference point M3 | BBC, Ericsson LM, Qualcomm Incorporated?, Samsung?, InterDigital? | 2.4 |
| [S4aI240118](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240118.zip) | [5GMS\_Ph2] Introduce 5GMSd over MBS | BBC, Qualcomm Incorporated | 2.4 |
| [S4aI240119](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240119.zip) | [FS\_MediaEnergyGREEN] Correction on collection and exposure at NF | Orange | 2.7 |
| [S4aI240120](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240120.zip) | [FS\_AMD] Multi-CDN and Multi-Access Media Delivery | Dolby France SAS | 2.6 |
| [S4aI240121](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240121.zip) | [FS\_AMD] WT 03b: Multi-access media delivery | Samsung Electronics Co. Ltd., Dolby France SAS, BBC | 2.6 |
| [S4aI240122](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240122.zip) | [FS\_AMD] WT#12: Improved QoS support for Media Streaming services | Huawei, HiSilicon, Ericsson | 2.6 |
| [S4aI240123](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240123.zip) | [FS\_AMD] Time and Work Plan for Advanced Media Delivery | Qualcomm Incorporated (Rapporteur) | 2.6 |
| [S4aI240124](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240124.zip) | [FS\_AMD] MBS User Service and Delivery Protocols for eMBMS | Qualcomm Germany | 2.6 |
| [S4aI240125](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240125.zip) | [FS\_MediaEnergyGREEN] Potential solution to Key Issue #1: Information exposure | Nokia, Interdigital | 2.7 |
| [S4aI240126](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240126.zip) | [FS\_MediaEnergyGREEN] Modification to description of Key Issue #1 | Nokia | 2.7 |
| [S4aI240127](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240127.zip) | [5GMS\_Ph2] Introduce 5GMSd over MBS | BBC, Qualcomm Incorporated | 2.4 |
| [S4aI240128](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240128.zip) | [FS\_AMD] WT 03b: Multi-access media delivery | Samsung Electronics Co. Ltd., Dolby France SAS, BBC | 2.6 |
| [S4aI240129](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240129.zip) | [iRTCW, 5GMS\_Pro\_Ph2] Authorising Media AS access to the Media AF at reference point M3 | BBC, Ericsson LM, Qualcomm Incorporated | 2.4 |
| [S4aI240130](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240130.zip) | [FS\_AMD] WT1: CMCD call flows | BBC | 2.6 |
| [S4aI240131](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240131.zip) | [FS\_MediaEnergyGREEN] Correction on collection and exposure at NF | Orange | 2.7 |
| [S4aI240132](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240132.zip) | [FS\_AMD] WT 03b: Multi-access media delivery | Samsung Electronics Co. Ltd., Dolby France SAS, BBC | 2.6 |
| [S4aI240133](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240133.zip) | [5GMS\_Pro\_Ph2] Alignment of 3GPP Service URL parameters | BBC | 2.4 |
| [S4aI240134](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240134.zip) | [FS\_MediaEnergyGREEN] Complements on KI#2 | Orange | 2.7 |
| S4aI240135 | [5GMS\_Pro\_Ph2] Client API for Background Data Transfer | BBC | 2.4 |
| [S4aI240136](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240136.zip) | [FS\_MediaEnergyGREEN] Update to Potential solution to Key Issue #1: Information exposure | Nokia, Interdigital | 2.7 |
| [S4aI240137](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240137.zip) | [FS\_MediaEnergyGREEN]Clause 3.1. Energy-related terms and definitions | Nokia | 2.7 |
| [S4aI240138](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240138.zip) | [FS\_AMD ] WT 03a: Multi-CDN and Multi-Access Media Delivery | Dolby France SAS | 2.6 |
| [S4aI240139](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240139.zip) | [FS\_AMD] New clause 5.24 QUIC-based Media Delivery | Xiaomi | 2.6 |
| [S4aI240140](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240140.zip) | [FS\_AMD] Multi-CDN and Multi-Access Media delivery: client side CDN switching | Huawei Technologies France | 2.6 |
| [S4aI240141](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240141.zip) | [FS\_AMD] Time and Work Plan for Advanced Media Delivery | Qualcomm Incorporated (Rapporteur) | 2.6 |

Agenda and Document registration is approved.

### 2.1.3 Information prior to the Meeting

#### 2.1.3.1 September 26, 2024

The following information was provided prior to the meeting

*Dear all,*

*Here is the proposed Tdoc allocation for today’s MBS SWG Ad hoc telco:*

*2 Multicast-Broadcast-Streaming (MBS) SWG*

*2.1 Opening of the session and registration of documents*

*2.2 IPR and antitrust reminder*

*2.3 Reports/Liaisons from other groups/meetings*

*2.4 Release 18 and earlier matters*

| [***S4aI240116***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240116.zip) | *[5GMS3, TEI17] Align OpenAPI YAML with normative descriptions* | *BBC* |
| --- | --- | --- |
| [***S4aI240117***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240117.zip) | *[iRTCW, 5GMS\_Pro\_Ph2] Authorising Media AS access to the Media AF at reference point M3* | *BBC, Ericsson LM, Qualcomm Incorporated?, Samsung?, InterDigital?* |
| [***S4aI240118***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240118.zip) | *[5GMS\_Ph2] Introduce 5GMSd over MBS* | *BBC, Qualcomm Incorporated* |

*2.5 FS\_MeMe (Study on Media Messaging)*

*2.6 FS\_AMD (Study on Advanced Media Delivery)*

| [***S4aI240115***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240115.zip) | *[FS\_AMD] WT1: CMCD call flows* | *BBC* |
| --- | --- | --- |
| [***S4aI240121***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240121.zip) | *[FS\_AMD] WT 03b: Multi-access media delivery* | *Samsung Electronics Co. Ltd., Dolby France SAS, BBC* |
| [***S4aI240122***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240122.zip) | *[FS\_AMD] WT#12: Improved QoS support for Media Streaming services* | *Huawei, HiSilicon, Ericsson* |
| [***S4aI240123***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240123.zip) | *[FS\_AMD] Time and Work Plan for Advanced Media Delivery* | *Qualcomm Incorporated (Rapporteur)* |
| [***S4aI240120***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240120.zip) | *[FS\_AMD] Multi-CDN and Multi-Access Media Delivery* | *Dolby France SAS*  *(LATE)* |
| *S4aI240124* | *[FS\_AMD] MBS User Service and Delivery Protocols for eMBMS* | *Qualcomm Germany*  *(N/A)* |

*2.7 FS\_MediaEnergyGREEN (Study on Media enerGy consumption exposuRE and EvaluatioN framework)*

| [***S4aI240119***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240119.zip) | *[FS\_MediaEnergyGREEN] Correction on collection and exposure at NF* | *Orange* |
| --- | --- | --- |
| [***S4aI240125***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240125.zip) | *[FS\_MediaEnergyGREEN] Potential solution to Key Issue #1: Information exposure* | *Nokia, Interdigital* |
| [***S4aI240126***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240126.zip) | *[FS\_MediaEnergyGREEN] Modification to description of Key Issue #1* | *Nokia* |

*2.8 Other Rel-19 matters including TEI*

*2.9 Close of the session*

#### 2.1.3.2 October 10, 2024

*Dear all,*

*Below is the proposed Tdoc allocation for today’s MBS SWG Ad hoc telco. Note that we will start with A.I. 2.7. and then take 2.6 and then 2.4. This is 14 documents. I’ll allocate 7 minutes for presentation + discussion per document.*

*Best regards,*

*/Frédéric*

*2 Multicast-Broadcast-Streaming (MBS) SWG*

*2.1 Opening of the session and registration of documents*

*2.2 IPR and antitrust reminder*

*2.3 Reports/Liaisons from other groups/meetings*

*2.4 Release 18 and earlier matters*

| [***S4aI240129***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240129.zip) | *[iRTCW, 5GMS\_Pro\_Ph2] Authorising Media AS access to the Media AF at reference point M3* | *BBC, Ericsson LM, Qualcomm Incorporated* |
| --- | --- | --- |
| [***S4aI240133***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240133.zip) | *[5GMS\_Pro\_Ph2] Alignment of 3GPP Service URL parameters* | *BBC* |
| *S4aI240135* | *[5GMS\_Pro\_Ph2] Client API for Background Data Transfer* | *BBC  (N/A)* |

*2.5 FS\_MeMe (Study on Media Messaging)*

*2.6 FS\_AMD (Study on Advanced Media Delivery)*

| [***S4aI240124***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240124.zip) | *[FS\_AMD] MBS User Service and Delivery Protocols for eMBMS* | *Qualcomm Germany* |
| --- | --- | --- |
| [***S4aI240130***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240130.zip) | *[FS\_AMD] WT1: CMCD call flows* | *BBC* |
| [***S4aI240132***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240132.zip) | *[FS\_AMD] WT 03b: Multi-access media delivery* | *Samsung Electronics Co. Ltd., Dolby France SAS, BBC* |
| [***S4aI240138***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240138.zip) | *[FS\_AMD ] WT 03a: Multi-CDN and Multi-Access Media Delivery* | *Dolby France SAS* |
| [***S4aI240139***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240139.zip) | *[FS\_AMD] New clause 5.24 QUIC-based Media Delivery* | *Xiaomi* |
| [***S4aI240140***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240140.zip) | *[FS\_AMD] Multi-CDN and Multi-Access Media delivery: client side CDN switching* | *Huawei Technologies France* |
| [***S4aI240141***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240141.zip) | *[FS\_AMD] Time and Work Plan for Advanced Media Delivery* | *Qualcomm Incorporated (Rapporteur)* |

*2.7 FS\_MediaEnergyGREEN (Study on Media enerGy consumption exposuRE and EvaluatioN framework)*

| [***S4aI240136***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240136.zip) | *[FS\_MediaEnergyGREEN] Update to Potential solution to Key Issue #1: Information exposure* | *Nokia, Interdigital* |
| --- | --- | --- |
| [***S4aI240126***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240126.zip) | *[FS\_MediaEnergyGREEN] Modification to description of Key Issue #1* | *Nokia* |
| [***S4aI240131***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240131.zip) | *[FS\_MediaEnergyGREEN] Correction on collection and exposure at NF* | *Orange* |
| [***S4aI240134***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240134.zip) | *[FS\_MediaEnergyGREEN] Complements on KI#2* | *Orange* |
| [***S4aI240137***](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240137.zip) | *[FS\_MediaEnergyGREEN]Clause 3.1. Energy-related terms and definitions* | *Nokia* |

*2.8 Other Rel-19 matters including TEI*

*2.9 Close of the session*

### 2.1.4 IPR and Anti-trust Reminder

The chairman read the antitrust and IPR clause.

<https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Inbox/Drafts/IPR%20%26%20Competition%20Law/SA4-VIDEO-SWG-IPR-CompetionLaw.pptx>

*"The attention of the delegates to the meeting of this SWG was drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.*

*The delegates were asked to take note that they were thereby invited:*

*to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.*

*to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms "*

*"The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chair and Vice-Chairs and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP. Delegates were reminded that timely submission of work items in advance of TSG/WG/SWG meetings was important to allow for full and fair consideration of such matters."*

## 2.2 Reports/Liaisons from other groups/meetings

### 2.2.1 Reports from previous meetings

### 2.2.2 Liaisons from other groups

none

### 2.2.3 LSs to other groups

none

### 2.2.4 Joint Session with 5G-MAG

Not scheduled.

## 2.3 CRs to features in Release 18 and earlier

| [**S4aI240116**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240116.zip) | [5GMS3, TEI17] Align OpenAPI YAML with normative descriptions | BBC | Richard Bradbury |
| --- | --- | --- | --- |

**Presenter**: Richard Bradbury

**Online Discussion**: September 26, 2024

* Frederic: You may want to add a bracket in the title in a next revision.
  + Richard: OK.

**Decision**: Agreed.

[S4aI240116](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240116%20.zip) is **agreed**.

| [**S4aI240117**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240117.zip) | [iRTCW, 5GMS\_Pro\_Ph2] Authorising Media AS access to the Media AF at reference point M3 | BBC, Ericsson LM, Qualcomm Incorporated?, Samsung?, InterDigital? | Richard Bradbury |
| --- | --- | --- | --- |

**Presenter**: Richard Bradbury

**Online Discussion**: September 26, 2024

* Thorsten: About this may and shall, I am not quite sure this is OK for M1. I think we need to double check.
* Thorsten: M3 is defined for 26.512.
  + Richard: The API is defined in 26.510. This is where we have the detailed procedure.
  + Thorsten: We have the security procedure in 512 for M3. Whereas for M1 and M5 this is in 510. This is confusing.
  + Richard: It is because they are in scope of WEBRTC, not downlink streaming.
* Imed: I have a different opinion about this. I think we should define security procedures only for Maf, being interface independent.
  + Richard: We could modify 7.4.3 but it would take time. All 3 clauses have the same structure. For maintainability, I agree with you.
  + Thorsten: We need to be careful. The method used to authorize could be different. I need to think about this.
  + Richard: Let’s try to make 7.4.3 more generic and check if this is enough.

**Decision**: Noted. A revision is expected for the next call.

[S4aI240117](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240117%20.zip) is **noted**.

| [**S4aI240118**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240118.zip) | [5GMS\_Ph2] Introduce 5GMSd over MBS | BBC, Qualcomm Incorporated | Richard Bradbury |
| --- | --- | --- | --- |

**Presenter**: Richard Bradbury

**Online Discussion**: September 26, 2024

* Thomas: It is fine. You can un-highlight Qualcomm.
* Frederic: Is it a category D CR? D is not possible for Rel-18. F is more relevant.
  + Richard: Correct. I will revise.

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

[S4aI240118](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240118%20.zip) is **revised to** [S4aI240127](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240127%20.zip).

| [S4aI240127](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240127.zip) | [5GMS\_Ph2] Introduce 5GMSd over MBS | BBC, Qualcomm Incorporated | Richard Bradbury |
| --- | --- | --- | --- |

[S4aI240127](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240127.zip) is **agreed**.

| [S4aI240129](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240129.zip) | [iRTCW, 5GMS\_Pro\_Ph2] Authorising Media AS access to the Media AF at reference point M3 | BBC, Ericsson LM, Qualcomm Incorporated | Richard Bradbury |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**: none

**Presenter**: Richard Bradbury

**Online Discussion**:

**Decision**:

[S4aI240129](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240129.zip) is **noted/agreed/revised**.

| [S4aI240133](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240133.zip) | [5GMS\_Pro\_Ph2] Alignment of 3GPP Service URL parameters | BBC | Richard Bradbury |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**:

| [S4aI240133 TS 26.512 Rel-18 CR0081 [5GMS\_Pro\_Ph2] Alignment of 3GPP Service URL\_huawei.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Inbox/Drafts/S4aI240133%20TS%2026.512%20Rel-18%20CR0081%20%5B5GMS_Pro_Ph2%5D%20Alignment%20of%203GPP%20Service%20URL_huawei.docx) | 2024/10/10 8:52 | 62 KB |
| --- | --- | --- |

**Presenter**: Richard Bradbury

**Online Discussion**:

**Decision**:

[S4aI240133](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240133.zip) is **noted/agreed/revised**.

| [S4aI240135](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240135.zip) | [5GMS\_Pro\_Ph2] Client API for Background Data Transfer | BBC | Richard Bradbury |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**: none

**Presenter**: Richard Bradbury

**Online Discussion**:

**Decision**:

[S4aI240135](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240135.zip) is **noted/agreed/revised**.

## 2.4 FS\_MeMe (Study on Media Messaging)

[*SP-240477*](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_103_Maastricht_2024-03/Docs/SP-240477.zip) *SID Study on Media Messaging*

No documents

## 2.5 FS\_AMD (Study on Advanced Media Delivery)

[*SP-240478*](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_103_Maastricht_2024-03/Docs/SP-240478.zip) *SID Study on Advanced Media Delivery*

| [**S4aI240115**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240115.zip) | [FS\_AMD] WT1: CMCD call flows | BBC | Richard Bradbury |
| --- | --- | --- | --- |

**Presenter**: Richard Bradbury

**Online Discussion**: September 26, 2024

* Rufael: I couldn’t understand how the encapsulation looks like in the communication between AF and the application provider in clause 5.16.6.2.7.
  + Richard: We could specify the general way it could be achieved.
* Thomas: Do we have to support everything? I believe we need a pros/cons discussion.
  + Richard: I agree. Option 1 and 2 are supported in players. Option 3 is different.

**Decision**: Noted. A revision is expected at the next call.

[S4aI240115](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240115%20.zip) is **noted**.

| [**S4aI240120**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240120.zip) | [FS\_AMD] Multi-CDN and Multi-Access Media Delivery | Dolby France SAS | Jason Cloud |
| --- | --- | --- | --- |

**Presenter**: Jason Cloud

**Online Discussion**: September 26, 2024

* Richard: I would like some time to examine this late document.
  + Jason: This is fair.
* Thomas: In the architecture, the CMMF should be a level below the Media Player. Are you really going in that direction?
  + Jason: From a network perspective, we don't agree which one is the best approach.
  + Thomas: We have a completely new media player. The MPD will not be a DASH player.
  + Richard: COuld I suggest an offline discussion?

**Decision**: Postponed. Jason will send an invite for an offline.

[S4aI240120](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240120%20.zip) is **postponed.**

| [**S4aI240121**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240121.zip) | [FS\_AMD] WT 03b: Multi-access media delivery | Samsung Electronics Co. Ltd., Dolby France SAS, BBC | Prakash Kolan |
| --- | --- | --- | --- |

**Presenter**: Prakash Kolan

**Online Discussion**: September 26, 2024

* Frederic: We just need to check if the already agreed content has been correctly integrated.
* Richard: Is this the formal CR?
  + Prakash: Yes.
  + Richard: Why have you reserved the next CR number?
  + Prakash: Yes, I probably should have incremented the rev number without changing the CR number.
  + Richard: We may endorse the document but the second change with all new text should be indicated as new text.
  + Prakash: I put it as a discussion paper.
  + Frederic: OK, we can agree to those changes and endorse the formal CR with those changes and a nice baseline for future inputs.

**Decision**: Agreed. The CR is 128 is endorsed.

[S4aI240121](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240121%20.zip) is **agreed**.

[S4aI240128](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240128.zip) is **endorsed**.

| [**S4aI240122**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240122.zip) | [FS\_AMD] WT#12: Improved QoS support for Media Streaming services | Huawei, HiSilicon, Ericsson | Qi Pan |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**: none

**Presenter**: Qi Pan

**Online Discussion**: September 26, 2024

* Thorsten: No technical modification?
  + Qi: Correct.
* Frederic: In a next revision, can you put “no” in the tick boxes?
  + Qi: OK

**Decision**: Endorsed.

[S4aI240122](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240122%20.zip) is **endorsed**.

| [**S4aI240123**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240123.zip) | [FS\_AMD] Time and Work Plan for Advanced Media Delivery | Qualcomm Incorporated (Rapporteur) | Thomas Stockhammer |
| --- | --- | --- | --- |

**Presenter**: Thomas Stockhammer

**Online Discussion**: September 26, 2024

* Frederic: It should not be submitted for “endorsement”, just “agreement”.
  + Thomas: OK.
* Frederic: sub-mitted should be in one word (submitted).
  + Thomas: OK
* Qi: As an owner, do we need to apply for a Tdoc before the meeting?
  + Thomas: No.

**Decision**: Revised. The revision including online edits and progress during this meeting will be agreed without presentation.

[S4aI240123](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240123.zip) is **revised to** [S4aI240141](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240141.zip).

| S4aI240124 | [FS\_AMD] MBS User Service and Delivery Protocols for eMBMS | Qualcomm Germany | Thomas Stockhammer |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**: none

**Presenter**: Thomas Stockhammer

**Online Discussion**: October 10, 2024

**Decision**:

* Richard: The diagram is mixing reference architecture and deployment architecture. This a quizzy.
* Thomas: Maybe I should do the call flow to make this more comprehensive. Any offline comments are appreciated.

[S4aI240124](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240124%20.zip) is **noted**.

| [S4aI240128](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240128.zip) | [FS\_AMD] WT 03b: Multi-access media delivery | Samsung Electronics Co. Ltd., Dolby France SAS, BBC | Prakash Kolan |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**: none

**Presenter**: Prakash Kolan

**Online Discussion**:

**Decision**:

[S4aI240128](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240128.zip) is **noted/agreed/revised**.

| [S4aI240130](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240130.zip) | [FS\_AMD] WT1: CMCD call flows | BBC | Richard Bradbury |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**: none

**Presenter**: Richard Bradbury

**Online Discussion**: October 10, 2024

* Richard: This is a revision of something presented last time addressing a comment from Rufael on “How is the CMCD information formatted?”.
  + Rufael: That helps. When you talk about events, how is this data available?
  + Richard: Event exposure is an API.

**Decision**: Agreed.

[S4aI240130](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240130.zip) is **agreed**.

| [S4aI240132](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240132.zip) | [FS\_AMD] WT 03b: Multi-access media delivery | Samsung Electronics Co. Ltd., Dolby France SAS, BBC | Prakash Kolan |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**: none

**Presenter**: Prakash Kolan

**Online Discussion**: October 10, 2024

* Prakash: This document accepts revision marks from previously endorsed CR.

**Decision**: Endorsed.

[S4aI240132](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240132.zip) is **endorsed**.

| [S4aI240138](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240138.zip) | [FS\_AMD ] WT 03a: Multi-CDN and Multi-Access Media Delivery | Dolby France SAS | Jason Cloud |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**:

| [S4aI240138\_BBC\_BBC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Inbox/Drafts/S4aI240138_BBC_BBC.docx) | 2024/10/09 13:17 | 1122,7 KB |
| --- | --- | --- |
| [S4aI240138\_BBC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Inbox/Drafts/S4aI240138_BBC.docx) | 2024/10/09 13:16 | 1122,4 KB |

**Presenter**: Jason Cloud

**Online Discussion**: October 10, 2024

* Thomas: I am confused about diagram 5.19.1.3.1-1. An origin server is used by a CDN if the object is not already available. Here we are losing this functionality.
  + Jason: Here it doesn’t really change what a CDN does.
  + Thomas: Do we have an on-the-fly modification according to who requests the content?
  + Jason: This is one solution. In the call flow, the origin server and the CMMF Generator are in the same component.
* Thomas: In the call flow, where does the CMMF receiver retrieve the URL?
* Rufael: The document is 90% about CMMF but the CR is generic. I hope more approaches will be included.
* Thomas: We probably apply many 5GMS components instead of naming them with CMMF in the call flows.

**Decision**: Revised based on the BBC version. The revision will be endorsed.

[S4aI240138](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240138.zip) is **revised to** [S4aI24](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240138.zip)0XXX.

| [S4aI240139](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240139.zip) | [FS\_AMD] New clause 5.24 QUIC-based Media Delivery | Xiaomi | Emmanouil Potetsianakis |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**:

| [S4aI240139\_huawei.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Inbox/Drafts/S4aI240139_huawei.docx) | 2024/10/10 10:21 | 55,2 KB |
| --- | --- | --- |

**Presenter**: Emmanouil Potetsianakis

**Online Discussion**: October 10, 2024

* Emmanouil: This document merges 2 endorsed document and address comments.
* Rufael: There are 3 topics: Quic, HTTP/3 and web transport. What will be the subject of the study?
  + Emmanouil: HTTP/3 clause has been updated.
* Prakash: About the collaboration scenario, do you plan to provide a diagram?
  + Emmanouil: Yes.
* Saba: About priorisation, do you want a 3GPP flavor?
  + Emmanouil: We don’t want a 3GPP flavor.

**Decision**: A revision to address Rufael comments is expected.

[S4aI240139](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240139.zip) is **noted**.

| [S4aI240140](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240140.zip) | [FS\_AMD] Multi-CDN and Multi-Access Media delivery: client side CDN switching | Huawei Technologies France | Rufail Mekuria |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**:

| [S4aI240140\_BBC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Inbox/Drafts/S4aI240140_BBC.docx) | 2024/10/09 17:16 | 132,8 KB |
| --- | --- | --- |

**Presenter**: Rufail Mekuria

**Online Discussion**: October 10, 2024

**Decision**:

[S4aI240140](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240140.zip) is **noted/agreed/revised**.

| [S4aI240141](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240141.zip) | [FS\_AMD] Time and Work Plan for Advanced Media Delivery | Qualcomm Incorporated (Rapporteur) | Thomas Stockhammer |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**: none

**Presenter**: Thomas Stockhammer

**Online Discussion**: October 10, 2024

**Decision**:

[S4aI240141](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240141.zip) is **noted/agreed/revised**.

## 2.6 FS\_MediaEnergyGREEN (Study on Media enerGy consumption exposuRE and EvaluatioN framework)

[*SP-240481*](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_103_Maastricht_2024-03/Docs/SP-240477.zip) *SID Study on Media enerGy consumption exposuRE and EvaluatioN framework*

| [**S4aI240119**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240119.zip) | [FS\_MediaEnergyGREEN] Correction on collection and exposure at NF | Orange | Julien Lemotheux |
| --- | --- | --- | --- |

**Revisions**: BBC

**Presenter**: Julien Lemotheux

**Online Discussion**: September 26, 2024

* Daniel: The clause showing the potential normative work is only for key issue 1. Please change to that this is only conclusions to key issues 1 and 3.
* Daniel: would object to adding the brackets (adding this to an existing function).A new network functionality will be defined to collect and calculate energy-related information and expose it to authorised consumers subject to operator's policy.
  + Richard: We need to acknowledge that there is a decision.
  + Thomas: unclear why people throw objections. This is a very recent decision and not reflected in any document.

**Decision**:

* September 26, 2024: We expect a revision. But noted for now

[S4aI240119](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240119%20.zip) is **noted**.

| [**S4aI240125**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240125.zip) | [FS\_MediaEnergyGREEN] Potential solution to Key Issue #1: Information exposure | Nokia, Interdigital | Daniel Philip VENMANI |
| --- | --- | --- | --- |

**Presenter**: Daniel Philip VENMANI

**Online Discussion**:

* September 26, 2024
  + Julien: The background section was not available in the TR for solutions. As already indicated via emails during the last meeting, it would be better to add this section in the section describing 3GPP work.
    - Daniel: OK
  + Julien: Why do we need a separate box for energy related information? Energy scope could be added to the existing box on metrics. This could help to link energy consumption and user behavior.
    - Daniel: Energy was not part of metrics.

**Decision**:

* September 26, 2024: Not enough time. Postponed during the September 26 meeting but has been revised for the October 10 meeting.

[S4aI240125](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240125%20.zip) is **revised to** [**S4aI2401**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240125.zip)**36**.

| [**S4aI2401**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240125.zip)**36** | [FS\_MediaEnergyGREEN] Potential solution to Key Issue #1: Information exposure | Nokia, Interdigital | Daniel Philip VENMANI |
| --- | --- | --- | --- |

**Presenter**: Daniel Philip VENMANI

**Online Discussion**: October 10, 2024

* Richard: Do we think the collection of energy related information is specific to 5GMS or more general for all 26.XXX series?
  + Daniel: What is proposed here should be applicable to others like 5G RTC, Split rendering, …
  + Richard: This diagram is fair enough. But would it be application to SA4 technology without a Media Session Handler. Maybe you should undelete the previous diagram to include the generic case. This study has a GMS focus, but is not limited to 5GMS.
* Qi: Here, we are discussing how to collect more general energy consumption. How can we be sure this is coming from media consumption?
  + Daniel: The solution is related to KI1 about information exposure only. And on the energy index, This corresponds to application usage which could be media application. This information could be used to do treatment by the network.
* Shilin: What mn means in the table?
  + Daniel: mn is minutes.
  + Shilin: This could be more clear.
* Shilin: What values a, b, c or d means?
  + Daniel: It is only to show these values are different.
* Richard: Column name of this table could be renamed.
* Prakash: I sent my comment by email.

**Decision**:

* Comments to be addressed. Noted.

[S4aI240136](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240125%20.zip) is **noted**.

| [**S4aI240126**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240126.zip) | [FS\_MediaEnergyGREEN] Modification to description of Key Issue #1 | Nokia | Daniel Philip VENMANI |
| --- | --- | --- | --- |

**Presenter**: Daniel Philip VENMANI

**Online Discussion**:

* September 26, 2024
  + Not presented due to lack of time.
* October 10, 2024
  + Julien: In the new question, what do you mean with energy-related information without exposing energy consumption.
    - Daniel: This means obfuscation of this info.

**Decision**:

* September 26, 2024
  + No time. Postponed.
* October 10, 2024

[S4aI240126](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240126%20.zip) is **postponed**.

| [S4aI240131](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240131.zip) | [FS\_MediaEnergyGREEN] Correction on collection and exposure at NF | Orange | Julien Lemotheux |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**:

| [S4aI240131\_BBC.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Inbox/Drafts/S4aI240131_BBC.docx) | 2024/10/09 14:15 | 54,1 KB |
| --- | --- | --- |

**Presenter**: Julien Lemotheux

**Online Discussion**: October 10, 2024

**Decision**:

* Julien: In Richard’s version he changed it to numbers, but i prefer bullets since it is in-line with SA2.
* Richard: What have we done in our TR?
* Daniel: Are we allowed to paraphrase from other TRs/TSs from other groups?
* Fred: You summarise and add a reference.
* Julien: But sometimes it changes the meaning. So, I prefer to copy paste the exact text.
* Fred: So there is room for improvement.
* Julien: I add a reference and keep as Richard proposed by keeping the numbering. I also removed “SA2” which is present after FFS.

[S4aI240131](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240131.zip) is **noted.**

| [S4aI240134](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240134.zip) | [FS\_MediaEnergyGREEN] Complements on KI#2 | Orange | Julien Lemotheux |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**:

| [S4aI240134\_Complement on KI2\_huawei.docx](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Inbox/Drafts/S4aI240134_Complement%20on%20KI2_huawei.docx) | 2024/10/10 12:57 | 51,5 KB |
| --- | --- | --- |

**Presenter**: Julien Lemotheux

**Online Discussion**: October 10, 2024

**Decision**:

* Rufael: Just a clarification on the term “minimised”. But just editorial. Change “minimize” to “reduce”.
* Richard: On the term “entity”, what are you referring to?
* Julien: I wanted to keep it generic.
* Richard: You can refer to which “UE entity”.
* Julien: yes.

[S4aI240134](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240134.zip) is revised to S4aI240142 and postponed.

| [S4aI240137](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240137.zip) | [FS\_MediaEnergyGREEN]Clause 3.1. Energy-related terms and definitions | Nokia | Daniel Philip VENMANI |
| --- | --- | --- | --- |

**E-mail Discussion**:

**Revisions**: none

**Presenter**: Daniel Philip VENMANI

**Online Discussion**: October 10, 2024

* Richard: If energy capacity means battery capacity, you should use battery capacity directly.
  + Daniel: OK.
* Richard: Terms should be a single sentence as indicated in the guidelines.
  + Daniel: This is new to me.
  + Richard: If a 2nd sentence is needed, you can use a Note for this.
* Prakash: UE carbon intensity is not clear for us. Is there a method to measure it? And what is it used for after it is reported. If we plan to add information to SA4 documents, we need to be clear what we are using them for. What are the operations on the UE side and on the network side.
  + Daniel: OK. We need to add information where they are used. This is the terms section
  + Prakash: Your other contribution 136 uses this term
  + Daniel: OK. Will clarify
* Qi: Why do we need to define many terms when they are not used in the current TR?
  + Daniel: It is in this TR, so it is better to define them.
* Thomas: The 5 first terms are new. We are not authorized to define this in SA4. This should be removed. If you need this you have a problem with the use cases. And for number 6, it is indicated “similar”. For this case, “as” should be enough.
* Richard: If you want to introduce new terms, you should do it in the pCR you use it. For the other, it is OK to repeat them but the reference of other TRs should be put in a Note.

**Decision**: Noted. A revision is expected to take comments into consideration.

[S4aI240137](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_MBS/Docs/S4aI240137.zip) is **noted**.

## 2.7 Others including TEI

No documents

## 2.8 Close of the session

### 2.8.1 Any other business

none

### 2.8.2 Post-Meeting Doc Status

To be added after last call.

### 2.8.3 Review of the future work plan

Telcos:

* ~~3GPP SA4 MBS SWG Telco (Sep 26, 2024, 15:30 – 17:30 CEST, Host Qualcomm)~~
* 3GPP SA4 MBS SWG Telco (Oct 10, 2024, 15:30 – 17:30 CEST, Host Qualcomm)
* 3GPP SA4 MBS SWG Meeting (October 16-18 2024, online, Host Qualcomm, submission deadline: Monday 14th October 23:59) – SA4 Power to send LSs relating to MBS A.I.s
* 3GPP SA4 MBS SWG Telco (Oct 24, 2024, 15:30 – 17:30 CEST, Host Qualcomm)

### 2.8.4 September 26, 2024

#### 2.8.4.1 Close of the session

The meeting was officially closed at 17:36 CEST.

#### 2.8.4.2 Meeting Summary

| Meeting title | 3GPP SA4 MBS SWG Telco post SA4#129-e |
| --- | --- |
| Attended participants | 33 |
| Start time | 9/26/24, 3:26:55 PM |
| End time | 9/26/24, 5:40:30 PM |
| Meeting duration | 2h 13m 35s |
| Average attendance time | 1h 49m 32s |

#### 2.8.4.3 Attendees

| Name | Join Time | Leave Time | Duration | Email |
| --- | --- | --- | --- | --- |
| Thomas Stockhammer | 3:32:17 PM | 5:19:26 PM | 1h 47m 9s | tsto@qti.qualcomm.com |
| Erik Reinhard | 3:28:11 PM | 3:29:10 PM | 59s | Erik.Reinhard@InterDigital.com |
| Erik Reinhard | 3:30:21 PM | 5:34:58 PM | 2h 4m 37s | Erik.Reinhard@InterDigital.com |
| Jiayi - CMCC (来宾) | 3:28:12 PM | 5:34:55 PM | 2h 6m 42s |  |
| Yoshihiro Inoue | 3:29:23 PM | 5:35:09 PM | 2h 5m 45s | yoshihiro.inoue@ntt-at.co.jp |
| Gazi Illahi (Nokia) | 3:29:53 PM | 5:34:55 PM | 2h 5m 1s | gazi.illahi@nokia.com |
| Gabin, Frederic | 3:30:05 PM | 5:34:59 PM | 2h 4m 54s | Frederic.Gabin@dolby.com |
| HU, JAMES | 3:30:17 PM | 5:40:01 PM | 2h 9m 44s | QH8316@att.com |
| LH R&D 0204 Rockall (4) (TR) | 3:30:17 PM | 5:34:55 PM | 2h 4m 38s | MRBBC\_LondonLH0204@beeb.net |
| LEMOTHEUX Julien INNOV/IT-S | 3:30:19 PM | 5:35:05 PM | 2h 4m 46s | julien.lemotheux@orange.com |
| Thorsten Lohmar | 3:30:22 PM | 5:35:01 PM | 2h 4m 38s | thorsten.lohmar@ericsson.com |
| Imed Bouazizi | 3:30:43 PM | 5:34:51 PM | 2h 4m 8s | BOUAZIZI@qti.qualcomm.com |
| Lee, Brian | 3:30:49 PM | 5:34:56 PM | 2h 4m 6s | Brian.Lee@dolby.com |
| Rufael Mekuria [Huawei] | 3:30:54 PM | 5:34:54 PM | 2h 3m 59s |  |
| Prakash Reddy Kolan | 3:30:58 PM | 5:35:03 PM | 2h 4m 5s | p.kolan@samsung.com |
| Shilin Ding | 3:31:10 PM | 5:34:57 PM | 2h 3m 47s | shilding@qti.qualcomm.com |
| Franck Aumont | 3:31:15 PM | 5:35:01 PM | 2h 3m 45s | Franck.Aumont@InterDigital.com |
| Srinivas Gudumasu | 3:31:18 PM | 5:34:51 PM | 2h 3m 33s | Srinivas.Gudumasu@InterDigital.com |
| Cloud, Jason | 3:31:20 PM | 5:34:57 PM | 2h 3m 36s | Jason.Cloud@dolby.com |
| Richard Bradbury | 3:31:50 PM | 5:34:59 PM | 2h 3m 9s | richard.bradbury@bbc.co.uk |
| Qi Pan --- Huawei | 3:32:04 PM | 5:00:41 PM | 1h 28m 36s |  |
| Emmanuel Thomas | 3:33:40 PM | 5:34:54 PM | 2h 1m 14s | thomase@xiaomi.com |
| Teniou Gilles | 3:34:48 PM | 5:34:56 PM | 2h 7s | teniou@global.tencent.com |
| LGE - WooSuk Kwon | 3:35:38 PM | 5:35:02 PM | 1h 59m 23s |  |
| Waqar Zia (Apple) | 3:38:41 PM | 3:57:01 PM | 18m 20s |  |
| Emmanouil Potetsianakis | 3:45:48 PM | 5:36:05 PM | 1h 50m 17s | emmanouil@xiaomi.com |
| Waqar Zia (Apple) | 3:56:59 PM | 4:46:26 PM | 49m 27s |  |
| Lulin Chen | 4:11:03 PM | 5:34:52 PM | 1h 23m 48s | Lulin.Chen@mediatek.com |
| Szucs, Paul | 4:11:24 PM | 5:34:55 PM | 1h 23m 30s | Paul.Szucs@sony.com |
| Robert Edwards | 4:26:42 PM | 5:40:30 PM | 1h 13m 48s | rob.edwards@matrixx.com |
| Qi Pan--Huawei | 5:00:32 PM | 5:34:57 PM | 34m 24s |  |

### 2.8.5 October 10, 2024

#### 2.8.5.1 Close of the session

The meeting was officially closed at 17:38 CEST.

#### 2.8.5.2 Meeting Summary

| Meeting title | 3GPP SA4 MBS SWG Telco post SA4#129-e |
| --- | --- |
| Attended participants | 26 |
| Start time | 10/10/24, 3:27:29 PM |
| End time | 10/10/24, 8:57:23 PM |
| Meeting duration | 5h 29m 54s |
| Average attendance time | 1h 59m 44s |

#### 2.8.5.3 Attendees

| Name | Join Time | Duration | Email |
| --- | --- | --- | --- |
| Thomas Stockhammer | 3:27:55 PM | 2h 11m 8s | tsto@qti.qualcomm.com |
| Gabin, Frederic | 3:27:31 PM | 2h 11m 27s | Frederic.Gabin@dolby.com |
| Erik Reinhard | 3:28:17 PM | 2h 20m 3s | Erik.Reinhard@InterDigital.com |
| Emmanouil Potetsianakis | 3:28:52 PM | 2h 11m 8s | emmanouil@xiaomi.com |
| LEMOTHEUX Julien INNOV/IT-S | 3:29:41 PM | 2h 9m 19s | julien.lemotheux@orange.com |
| Gazi Illahi (Nokia) | 3:30:06 PM | 5h 27m 17s | gazi.illahi@nokia.com |
| Imed Bouazizi | 3:30:25 PM | 2h 8m 38s | BOUAZIZI@qti.qualcomm.com |
| Cloud, Jason | 3:30:25 PM | 2h 8m 35s | Jason.Cloud@dolby.com |
| Shilin Ding | 3:31:03 PM | 2h 8m 1s | shilding@qti.qualcomm.com |
| Franck Aumont | 3:31:17 PM | 2h 9m 40s | Franck.Aumont@InterDigital.com |
| Richard Bradbury | 3:31:24 PM | 2h 7m 34s | richard.bradbury@bbc.co.uk |
| Emmanuel Thomas | 3:31:43 PM | 2h 8m 25s | thomase@xiaomi.com |
| Stephane Onno | 3:32:10 PM | 2h 5m 7s | Stephane.Onno@InterDigital.com |
| Waqar Zia (Apple) | 3:32:15 PM | 42m 29s |  |
| Rufael Mekuria [Huawei] | 3:32:38 PM | 2h 6m 21s |  |
| Saba Ahsan (Nokia) | 3:33:33 PM | 2h 5m 32s | saba.ahsan@nokia.com |
| Qi Pan --- Huawei | 3:35:03 PM | 1h 32m 42s |  |
| Srinivas Gudumasu | 3:38:03 PM | 47m 12s | Srinivas.Gudumasu@InterDigital.com |
| Prakash Reddy Kolan | 3:40:18 PM | 1h 58m 44s | p.kolan@samsung.com |
| HU, JAMES | 3:40:25 PM | 1h 58m 34s | QH8316@att.com |
| Thorsten Lohmar | 3:44:59 PM | 56m | thorsten.lohmar@ericsson.com |
| Thorsten Lohmar | 5:10:58 PM | 28m 7s | thorsten.lohmar@ericsson.com |
| Razvan Andrei Stoica | 4:46:47 PM | 51m 59s | rstoica@lenovo.com |
| Qi Pan Huawei | 5:07:27 PM | 31m 49s |  |