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

**Title: MBS Tdoc allocation**

## Document for: Information

## Agenda Item: 9.2

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| --- | --- | --- | --- |
| A.I. | Title of A.I. | Block | Tdoc |
| 6.2 | Other 3GPP groups | Plenary |  |
| 9 | Multicast-Broadcast-Streaming (MBS) SWG | - |  |
| 9.1 | Opening of the session | A |  |
| 9.2 | Registration of documents | A |  |
| 9.3 | Reports/Liaisons from other groups/meetings | A | 405n (SA3/data collection)415 (SA2/5MBS) -> MBS SWG -> noted (email 1800 CEST)407 (SA2/VIAPA) reply in 442->619a, 443n |
| 9.4 | Issues for immediate consideration | A |  |
| 9.5 | CRs to features in Release 16 and earlier | A | ClientId: 440->643a, 414 (SA2/data collection) reply in 441->644AppId: 524a, 525->615a, 620->630a (then->661 in plenary)448nt |
| 9.6 | FS\_5GMS\_Multicast (Feasibility Study on Multicast Architecture Enhancements for 5GMSA) | A | TR 26.802: 493aDVB-MABR: 475->621n5MBS arch.: 476->616a5MBS User Service: 495->617->588xMB: 521->638aLS on 5MBS: 496->632TP: 494->618a449nt, 450nt, 451nt |
| 9.7 | FS\_EMSA (Feasibility Study on Streaming Architecture extensions For Edge processing) | A | Architecture: 499->622a, 503->633a AS Relocation: 515->623nProvisioning: 517nGaps: 561->624->631aEditorials: 574->625aGaps and Conclusions: 575->626 (email 1800 CEST)Use case: 578->627 (email 1800 CEST)TP: 628TR 26.803: 629 |
| 9.8 | FS\_5GMS\_EXT (Study on 5G media streaming extensions) | B | Content Preparation: 477->634->640 (email 1800 CEST), 478nUplink streaming: 479->635 (email 1800 CEST)New transport protocols: 492->636 (email 1800 CEST)Traffic Identification: 501m&522m&537m-> 589 (email 1800 CEST)Content aware streaming: 511nPer-application-authorization: 523->637a TR 26.804: 518aTP: 482452nt, 453nt, 454nt, 455nt, 456nt |
| 9.9 | FS\_NPN4AVProd (Feasibility Study on Media Production over 5G NPN) | B | TR 26.805 v0.0.1: 519aTR structure: 527aNMOS: 528nMedia protocols: 529->641aUse case: 500n, 530nTP: 639->642a |
| 9.10 | New Work / New Work Items and Study Items | B | 497->590 |
| 9.11 | Others including TEI | B | 498nt |
| 9.12 | Review of the future work plan (next meeting dates, hosts) | B | **MBS SWG AH post 113-e (WA)****Apr 22, 14:00-17:00 CEST****May 6, 15:00-18:00 CEST****Joint telco with Video SWG on FS\_EMSA-FS\_5GSTAR: May 4 1700-1800 CEST** |
| 9.13 | Any Other Business | B |  |
| 9.14 | Close of the session | B |  |
| 14 | Reports and general issues from sub-working-groups | Plenary |  |
| 14.2 | MBS SWG | Plenary |  |
| 15 | CRs to features in Release 16 and earlier | Plenary |  |
| 16 | Release 17 Features | Plenary |  |
| 16.6 | TEI17 and any other Rel-17 documents | Plenary |  |
| 18 | Study Items | - |  |
| 18.1 | FS\_5GMS\_Multicast (Feasibility Study on Multicast Architecture Enhancements for 5GMSA) | Plenary |  |
| 18.3 | FS\_EMSA (Feasibility Study on Streaming Architecture extensions For Edge processing) | Plenary |  |
| 18.8 | FS\_5GMS\_EXT (Study on 5G media streaming extensions) | Plenary |  |
| 18.9 | FS\_NPN4AVProd (Feasibility Study on Media Production over 5G NPN) | Plenary |  |
| 19 | Work Items and Study Items under the responsibility of other TSGs/WGs impacting SA4 work | Plenary |  |
| 20 | New Work / New Work Items and Study Items | Plenary |  |
| 21 | Postponed issues | Plenary |  |
| 22 | Review of the future work plan (next meeting dates, hosts) | Plenary |  |
| 23 | Any Other Business | Plenary |  |
| 24 | Close of meeting: Wednesday April 14th, at 10:00 hours CEST (at the latest) | Plenary |  |

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| **TDoc** | **Title** | **Source** | **For** | **SWG Agenda item** | **TDoc Status** | **Revised to** | **Plenary Agenda item** |
| [**S4-210405**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210405.zip) | Reply LS method for collection of data from the UE | 3GPP SA3 | Discussion | 6.2 | **Noted** |  | 6.2 |
| [**S4-210407**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210407.zip) | LS on hold and forward buffer support for VIAPA services | 3GPP SA2 | Action | 6.2 | **Replied to** |  | 6.2 |
| [**S4-210414**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210414.zip) | Reply LS on method for collection of data from the UE | 3GPP SA2 | Discussion | 6.2 | **available** |  |  |
| [**S4-210415**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210415.zip) | Reply LS on Service Layer aspects for 5G MBS | 3GPP SA2 | Discussion | 6.2 | **available** |  |  |
| **[S4-210440](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210440.zip)** | ClientId for Consumption and Metrics Reporting, and Dynamic Policy and Network Assistance Access | Qualcomm Incorporated | Agreement | 9.5 | **revised** | S4-210643 |  |
| [**S4-210441**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210441.zip) | Draft Reply LS to SA2 on UE Data Collection | Qualcomm Incorporated | Discussion | 9.3 | **available** |  |  |
| [**S4-210442**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210442.zip) | Draft Reply LS to SA2 on hold and forward buffer support for VIAPA services | Qualcomm Incorporated | Discussion | 9.3 | **revised** | S4-210619 |  |
| [**S4-210443**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210443.zip) | On Hold and Forward Buffer Support for VIAPA Services | Qualcomm Incorporated, Ericsson LM, Sennheiser | Agreement | 9.3 | **noted** |  |  |
| S4-210448 | Proposed Corrections to TS 26.512 | Qualcomm Incorporated | Agreement | 9.5 | LATE |  |  |
| S4-210449 | [FS\_5GMS\_Multicast] Key issue on re-use of MBMS service layer | Qualcomm Incorporated | Agreement | 9.6 | LATE |  |  |
| S4-210450 | [FS\_5GMS\_Multicast] Hybrid Services | Qualcomm Incorporated | Agreement | 9.6 | LATE |  |  |
| S4-210451 | [FS\_5GMS\_Multicast] Interworking with EPC and enTV | Qualcomm Incorporated | Agreement | 9.6 | LATE |  |  |
| S4-210452 | [FS\_5GMS-EXT] Key Topic Additional / New transport protocols | Qualcomm Incorporated | Agreement | 9.8 | LATE |  |  |
| S4-210453 | [FS\_5GMS-EXT] Key Topic Background traffic | Qualcomm Incorporated | Agreement | 9.8 | LATE |  |  |
| S4-210454 | [FS\_5GMS-EXT] Key Topic Content Aware Streaming | Qualcomm Incorporated | Agreement | 9.8 | LATE |  |  |
| S4-210455 | [FS\_5GMS-EXT] Key Topic Support for encrypted and high-value content | Qualcomm Incorporated | Agreement | 9.8 | LATE |  |  |
| S4-210456 | [FS\_5GMS-EXT] Key Topic Scalable distribution of unicast Live Services | Qualcomm Incorporated | Agreement | 9.8 | LATE |  |  |
| [**S4-210475**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210475.zip) | Interworking of DVB-MABR with 5MBS | BBC | Agreement | 9.6 | **revised** | S4-210621 |  |
| [**S4-210476**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210476.zip) | Baseline 5MBS reference architecture | BBC | Agreement | 9.6 | **revised** | S4-210616 |  |
| [**S4-210477**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210477.zip) | [FS\_5GMS-EXT]: Content preparation topic: Call flows for collaboration scenarios | Tencent | Agreement | 9.8 | **revised** | S4-210634 |  |
| [**S4-210478**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210478.zip) | [FS\_5GMS-EXT]: Content preparation topic: potential open issues | Tencent | Agreement | 9.8 | **Noted** |  |  |
| [**S4-210479**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210479.zip) | [FS\_5GMS-EXT]: Uplink streaming topic: Call flows for collaboration scenarios | Tencent | Agreement | 9.8 | **revised** | S4-210635 |  |
| S4-210482 | [FS\_5GMS\_EXT]: Proposed workplan update | Tencent | Agreement | 9.8 | LATE |  |  |
| [**S4-210492**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210492.zip) | [FS\_5GMS-EXT] Key Topic Additional / New transport protocols (Open issues for HTTP/3 and QUIC) | Tencent America | Agreement | 9.8 | **revised** | S4-210636 |  |
| [**S4-210493**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210493.zip) | Draft TR 26.802 | TELUS |   | 9.6 | **agreed** |  | TBD |
| [**S4-210494**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210494.zip) | [FS\_5GMS\_Multicast] Updated time and work plan  | TELUS | Agreement | 9.6 | **revised** | S4-210618 |  |
| [**S4-210495**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210495.zip) | pCR to TR 26.802 - on 5GS broadcast-multicast user service | TELUS |   | 9.6 | **revised** | S4-210617 |  |
| [**S4-210496**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210496.zip) | LS to SA2 on work split and broadcast-multicast user service | TELUS |   | 9.6 | **revised** | S4-210632 |  |
| [**S4-210497**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210497.zip) | New WID on 5GMS AF Event Exposure | QUALCOMM Europe Inc. - Italy |   | 9.10 | **available** |  |  |
| S4-210498 | UE Data Ingest over M1 Interface | Qualcomm Incorporated | Agreement | 9.11 | LATE |  |  |
| [**S4-210499**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210499.zip) | Update on the SA6 generic procedures | HUAWEI Technologies Japan K.K. | Agreement | 9.7 | **revised** | S4-210622 |  |
| [**S4-210500**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210500.zip) | Use case for multiple video camera capturing for A/V Production | HUAWEI Technologies Japan K.K. | Agreement | 9.9 | **available** |  |  |
| [**S4-210501**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210501.zip) | Update on the Traffic Identification for 5-tuple identified streaming | HUAWEI Technologies Japan K.K. | Agreement | 9.8 | **available** |  |  |
| [**S4-210503**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210503.zip) | Possible Deployment Options for EMSA Architecture | HUAWEI Technologies Japan K.K. | Agreement | 9.7 | **revised** | S4-210633 |  |
| [**S4-210511**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210511.zip) | Discussion on the content aware streaming | HUAWEI Technologies Japan K.K. | Agreement | 9.8 | **noted** |  |  |
| [**S4-210515**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210515.zip) | Discussion on the Edge Application Server Relocation based on the EMAS architecture | HUAWEI Technologies Japan K.K. | Agreement | 9.7 | **revised** | S4-210623 |  |
| [**S4-210517**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210517.zip) | FS\_EMSA: Provisioning of edge-enabled functions | Samsung Electronics Czech |   | 9.7 | **noted** |  |  |
| [**S4-210518**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210518.zip) | TR 26.804 v0.1.1 | Ericsson GmbH, Eurolab |   | 9.8 | **agreed** |  | TBD |
| [**S4-210519**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210519.zip) | Initial version of TR 26.805 | Ericsson GmbH, Eurolab |   | 9.9 | **available** |  |  |
| [**S4-210521**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210521.zip) | Updated Key Issue 2: Review of existing xMB interface wrt Nx2 | Ericsson LM | Agreement | 9.6 | **revised** | S4-210638 |  |
| [**S4-210522**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210522.zip) | [FS\_5GMS-EXT] Key Topic Traffic Identification using ToS IP Header Field | Ericsson LM | Agreement | 9.8 | **available** |  |  |
| [**S4-210523**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210523.zip) | [FS\_5GMS-EXT] Collaboration scenario proposal for KI “per-application-authorization” | Ericsson LM | Agreement | 9.8 | **revised** | S4-210637 |  |
| [**S4-210524**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210524.zip) | Discussion on Application Id usage on Nnef\_AfSessionWithQoS and NnefChargableThirdParty APIs | Ericsson LM | Agreement | 9.5 | **agreed** |  | - |
| [**S4-210525**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210525.zip) | Correction on Dynamic Policy parameters | Ericsson LM | Agreement | 9.5 | **revised** | S4-210615 |  |
| [**S4-210527**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210527.zip) | Structure of the technical report | Ericsson LM, BBC, EBU, Sennheiser | Agreement | 9.9 | **available** |  |  |
| [**S4-210528**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210528.zip) | Overview of NMOS functionality | BBC, Ericsson LM, EBU, Sennheiser | Agreement | 9.9 | **available** |  |  |
| [**S4-210529**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210529.zip) | Description of existing media protocols in media production | EBU, Ericsson LM, BBC, Sennheiser | Agreement | 9.9 | **revised** | S4-210641 |  |
| [**S4-210530**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210530.zip) | Description of camera media flows in a Multi-Camera production | BBC, Ericsson LM, EBU, Sennheiser | Agreement | 9.9 | **available** |  |  |
| [**S4-210537**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210537.zip) | Key Topic Traffic Identification | Qualcomm Incorporated |   | 9.8 | **revised** | S4-210589 |  |
| [**S4-210561**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210561.zip) | [FS\_EMSA] Updates to call flows and new gap analysis | Tencent | Agreement | 9.7 | **revised** | S4-210624 |  |
| [**S4-210574**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210574.zip) | Updates to TR 26.803 | QUALCOMM Europe Inc. - Italy |   | 9.7 | **revised** | S4-210625 |  |
| [**S4-210575**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210575.zip) | Gaps and conclusions for TR 26.803 | QUALCOMM Europe Inc. - Italy |   | 9.7 | **revised** | S4-210626 |  |
| [**S4-210578**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_113-e/Docs/S4-210578.zip) | Split Rendering Use Case Walkthrough  | QUALCOMM Europe Inc. - Italy |  | 9.7 | **revised** | S4-210627 |  |

New Tdocs allocated during MBS SWG

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| **TDoc** | **Title** | **Source** | **For** | **SWG Agenda item** | **TDoc Status** | **Revised to** | **Plenary Agenda item** |
| S4-210615 | Correction on Dynamic Policy parameters | Ericsson LM | Agreement | 9.5 | **agreed** |  | - |
| S4-210616 | Baseline 5MBS reference architecture | BBC | Agreement | 9.6 | **agreed** |  |  |
| S4-210617 | pCR to TR 26.802 - on 5GS broadcast-multicast user service | TELUS |   | 9.6 | **available** |  |  |
| S4-210618 | [FS\_5GMS\_Multicast] Updated time and work plan  | TELUS | Agreement | 9.6 | **available** |  |  |
| S4-210619 | Draft Reply LS to SA2 on hold and forward buffer support for VIAPA services | Qualcomm Incorporated | Discussion | 9.3 | **agreed** |  | 6.2 |
| S4-210620 | Draft LS (to SA2) on App ID Usage in NEF Related Service API in Rel 17 | Ericsson LM | Agreement | 9.5 | **available** | S4-210630 |  |
| S4-210621 | Interworking of DVB-MABR with 5MBS | BBC | Agreement | 9.6 | **available** |  |  |
| S4-210622 | Update on the SA6 generic procedures | HUAWEI Technologies Japan K.K. | Agreement | 9.7 | **agreed** |  | - |
| S4-210623 | Discussion on the Edge Application Server Relocation based on the EMAS architecture | HUAWEI Technologies Japan K.K. | Agreement | 9.7 | **noted** |  |  |
| S4-210624 | [FS\_EMSA] Updates to call flows for EAS discovery | Tencent | Agreement | 9.7 | **revised** | S4-210631 |  |
| S4-210625 | Updates to TR 26.803 | QUALCOMM Europe Inc. - Italy |   | 9.7 | **agreed** |  | - |
| S4-210626 | Gaps and conclusions for TR 26.803 | QUALCOMM Europe Inc. - Italy |   | 9.7 | **available** |  |  |
| S4-210627 | Split Rendering Use Case Walkthrough  | QUALCOMM Europe Inc. - Italy |  | 9.7 |  |  |  |
| S4-210628 | Time plan for FS\_EMSA  | QUALCOMM Europe Inc. - Italy |  | 9.7 |  |  |  |
| S4-210629 | FS\_EMSA TR 26.803 vX.X.X | QUALCOMM Europe Inc. - Italy |  | 9.7 |  |  |  |
| S4-210630 | Draft LS (to SA2) on App ID Usage in NEF Related Service API in Rel 17 | Ericsson LM | Agreement | 9.5 | **agreed** |  | 15 |
| S4-210631 | [FS\_EMSA] Updates to call flows for EAS discovery | Tencent, BBC | Agreement | 9.7 | **agreed** |  | - |
| S4-210632 | LS to SA2 on work split and broadcast-multicast user service | TELUS |   | 9.6 | **available** |  |  |
| S4-210633 | Possible Deployment Options for EMSA Architecture | HUAWEI Technologies Japan K.K. | Agreement | 9.7 | **available** |  |  |
| S4-210634 | [FS\_5GMS-EXT]: Content preparation topic: Call flows for collaboration scenarios | Tencent | Agreement | 9.8 | **revised** | S4-210640 |  |
| S4-210635 | [FS\_5GMS-EXT]: Uplink streaming topic: Call flows for collaboration scenarios | Tencent | Agreement | 9.8 | **available** |  |  |
| S4-210636 | [FS\_5GMS-EXT] Key Topic Additional / New transport protocols (Open issues for HTTP/3 and QUIC) | Tencent America | Agreement | 9.8 | **available** |  |  |
| S4-210637 | [FS\_5GMS-EXT] Collaboration scenario proposal for KI “per-application-authorization” | Ericsson LM | Agreement | 9.8 | **agreed** |  | - |
| S4-210638 | On Nx2 Design and extension of KI#2 with Group Communication Delivery configuration | Ericsson LM | Agreement | 9.6 | **agreed** |  | - |
| S4-210639 | FS\_NPN4AVProd Time plan | Rapporteur (Ericsson LM) | Agreement | 9.9 | **revised** | S4-210642 |  |
| S4-210640 | [FS\_5GMS-EXT]: Content preparation topic: Call flows for collaboration scenarios | Tencent | Agreement | 9.8 | **available** |  |  |
| S4-210641 | Description of existing media protocols in media production | EBU, Ericsson LM, BBC, Sennheiser | Agreement | 9.9 | **available** |  |  |
| S4-210642 | FS\_NPN4AVProd Time plan | Rapporteur (Ericsson LM) | Agreement | 9.9 |  |  |  |
| S4-210643 | ClientId for Consumption and Metrics Reporting, and Dynamic Policy and Network Assistance Access | Qualcomm Incorporated | Agreement | 9.5 | **available** |  |  |
| S4-210644 | Draft Reply LS to SA2 on UE Data Collection | Qualcomm Incorporated | Discussion | 9.3 | **available** |  |  |
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| S4-210588 | pCR to TR 26.802 - on 5GS broadcast-multicast user service | TELUS |   | 9.6 | **available** |  |  |
| S4-210589 | Key Topic Traffic Identification | Qualcomm Incorporated |   | 9.8 | **available** |  |  |
| S4-210590 | New WID on 5GMS AF Event Exposure | QUALCOMM Europe Inc. - Italy |   | 9.10 | **available** |  |  |
| S4-210591 | MBS SWG report at SA4#113-e | SA4 MBS SWG Chair |  | - |  |  | 14.2 |
| S4-210592 |  |  |  |  |  |  |  |
| S4-210593 |  |  |  |  |  |  |  |
| S4-210594 |  |  |  |  |  |  |  |
| S4-210595 |  |  |  |  |  |  |  |
| S4-210596 |  |  |  |  |  |  |  |
| S4-210597 |  |  |  |  |  |  |  |
| S4-210598 |  |  |  |  |  |  |  |
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Mailing Address: Dolby France, 18 rue de Londres, 75009 Paris, France [↑](#footnote-ref-1)