|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Tdoc | Title | Source(s) | Agenda Item(s) | Replaced by |
| S4-160870 | Draft Report of SA4#89 meeting, v. 0.0.1 | TSG-S4 Secretary | 4 |  |
| S4-160871 | Proposed meeting agenda for SA4#90 | SA4 Chairman | 2 |  |
| S4-160872 | Proposed meeting schedule for SA4#90 | SA4 Chairman | 2 | S4-161010 |
| S4-160873 | Additional information on use of P.862 and P.863 (pCR TR 26.931) | Knowles Inc. | 10.8 | S4-161079 |
| S4-160874 | Additional SWB P.835 results | Knowles Inc. | 10.6 |  |
| S4-160875 | Need and motivation of QoE reporting options | China Unicom, China Mobile, China Telecom, Telefonica | 9.7 |  |
| S4-160876 | pCR TS 26.347 on clauses 3 and 4 | one2many B.V. | 9.6 |  |
| S4-160877 | pCR Update of TR 26.932 from Editor | ORANGE | 11.5 |  |
| S4-160878 | Network Assistance for DASH | Ericsson LM, Sony Mobile Communications | 9.9 | S4-161054 |
| S4-160879 | Draft New WID on Network Assistance for DASH | Ericsson LM, Sony Mobile Communications | 9.13 |  |
| S4-160880 | pCR Editorial changes to draft TR 26.918 | Dolby Laboratories Inc. | 11.6 |  |
| S4-160881 | New SWB-FB P.835 database for DESUDAPS | HEAD acoustics GmbH | 10.6 |  |
| S4-160882 | pCR TR 26.981 on PWS use case | one2many B.V. | 9.12 |  |
| S4-160883 | LS on Device Configuration – additional information and parameters | TSG CT WG1 | 6.2 |  |
| S4-160884 | LS response to SA4 on progress of FS\_xMBMS study item POSTPONED | TSG CT WG3 | 6.2, 9.3 |  |
| S4-160885 | Reply LS on Introduction of simulcast and pause-resume usage into MMCMH | TSG CT WG4 | 6.2, 12.3 |  |
| S4-160886 | Reply LS on Multiple RoHC Contexts for MMCMH | TSG RAN WG2 | 6.2, 12.3 |  |
| S4-160887 | Response LS on QoE reporting for streaming services | TSG RAN WG2 | 6.2, 9.3 |  |
| S4-160888 | Reply LS to SA4 on Codec for MCVideo | TSG SA WG1 | 6.2, 9.3 |  |
| S4-160889 | Response on LS on progress of FS\_xMBMS study item | TSG SA WG1 | 6.2, 9.3 |  |
| S4-160890 | LS on external interface for TV services | TSG SA WG2 | 6.2, 9.3 |  |
| S4-160891 | LS on MBMS enhancements for mission critical services | TSG SA WG6 | 6.2, 9.3 |  |
| S4-160892 | LS on Device Configuration – additional information and parameters | GSMA NG RILTE | 6.3, 12.3 |  |
| S4-160893 | Time and work plan for IQoE | Huawei Tech.(UK) Co., Ltd | 9.7 | S4-161040 |
| S4-160894 | Time and work plan for FS\_MCP\_V | Huawei Tech.(UK) Co., Ltd | 9.11 | S4-161048 |
| S4-160895 | update to QoE reporting in TR26.909 | Huawei Tech.(UK) Co., Ltd | 9.7 |  |
| S4-160896 | Draft CR TS 26.247 DASH Audio-Video MOS support | Huawei Tech.(UK) Co., Ltd | 9.7 |  |
| S4-160897 | CR 26.445-0020 Corrections regarding the EVS dtx and dtx-recv MIME parameters (Rel-12) | Nokia Corporation | 8.3, 15.14 |  |
| S4-160898 | CR 26.445-0021 Corrections to Algorithmic Description (Rel-12) | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge and ZTE Corporation | 8.3 | S4-161013 |
| S4-160899 | CR 26.445-0022 Corrections to the Algorithmic Description (Rel-13) | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge and ZTE Corporation | 8.3 | S4-161014 |
| S4-160900 | On Video Codecs for MCVideo | Huawei Technologies Co Ltd, Ericsson LM | 9.11 | S4-161038 |
| S4-160901 | Virtual Reality Definition Proposal | Huawei Technologies Co Ltd, ORANGE | 11.6 | S4-161063 |
| S4-160902 | Virtual Reality Synchronization Aspects Proposal | HUAWEI Technologies Co Ltd | 11.6 | S4-161069 |
| S4-160903 | Draft CR TS 26.947 Location based filter support for DASH | Huawei Tech.(UK) Co., Ltd | 9.7 |  |
| S4-160904 | Draft CR TS 26.947 streaming source specific based filter for DASH QoE | Huawei Tech.(UK) Co., Ltd | 9.7 |  |
| S4-160905 | Consideration to support MC Video | Huawei Tech.(UK) Co., Ltd | 9.11 | S4-161051 |
| S4-160906 | Carriage of ATSC 3.0 Content over TMB2 | Samsung Telecoms America | 9.12 | S4-161094 |
| S4-160907 | Draft CR TS 26.346 MBMS URL Form and DNS Resolution | Samsung Telecoms America | 9.6 |  |
| S4-160908 | API Notification and Security Aspects | Samsung Telecoms America | 9.6 |  |
| S4-160909 | CORS Considerations for SAND | Samsung Telecoms America | 9.9 | S4-161056 |
| S4-160910 | xMBMS Function Detailss | Samsung Telecoms America | 9.12 |  |
| S4-160911 | TR 26.981 v0.0.5 on MBMS Extensions for Provisioning and Content Ingestion | Editor (Ericsson) | 9.12 | S4-161058 |
| S4-160912 | FS\_xMBMS: Text proposal on updated use cases and requirements | Ericsson LM | 9.12 | S4-161046 |
| S4-160913 | FS\_xMBMS: Text proposal on architectural considerations | Ericsson LM | 9.12 | S4-161015 |
| S4-160914 | FS\_xMBMS: Text Proposal on architecture and procedures | Ericsson LM | 9.12 | S4-161092 |
| S4-160915 | Draft New Work Item on External Interface for MBMS User Services (stage 2) | Ericsson LM | 9.13 | S4-161106 |
| S4-160916 | Report of MBS SWG ad-hoc #60 telco on FS\_xMBMS – 7th July 2016 | MBS SWG Chairman (Ericsson) | 6.1 |  |
| S4-160917 | Report of MBS SWG ad-hoc #61 telco on TRAPI – 12th July 2016 | MBS SWG Chairman (Ericsson) | 6.1 |  |
| S4-160918 | Report of MBS SWG ad-hoc #62 telco on FS\_USE\_3GPP\_4\_TV – 13th July 2016 | MBS SWG Chairman (Ericsson) | 6.1 |  |
| S4-160919 | Report of MBS SWG ad-hoc #63 telco on FS\_SAND, 19th July | MBS SWG Chairman (Ericsson) | 6.1 |  |
| S4-160920 | Report of MBS SWG Telco #67 on FS\_xMBMS, 18th August | MBS SWG Chairman (Ericsson) | 6.1 |  |
| S4-160921 | Report of MBS SWG Telco #68 on FS\_SAND, 23rd August | MBS SWG Chairman (Ericsson) | 6.1 |  |
| S4-160922 | Report of MBS SWG Telco #69 on TRAPI, 24th August | MBS SWG Chairman (Ericsson) | 6.1 |  |
| S4-160923 | CR 26.114-0385 Re-insertion of simulcast and pause-resume (Rel-14) | Ericsson LM | 12.6 | S4-161027 |
| S4-160924 | CR 26.980-0001 Addition of codec migration use case(Rel-14) | Ericsson LM | 12.6, 17.6 |  |
| S4-160925 | Draft CR 26.114 Codec simulcast clarifications | Ericsson LM | 12.6 |  |
| S4-160926 | CR 26.454-0005 Correction in clause 4 General for EVSoCS (Rel-13) | Ericsson LM | 8.3, 15.11 |  |
| S4-160927 | CR 26.454-0006 Filtering and Modification of EVS-CMR (Rel-13) | Ericsson LM | 8.3, 15.11 | S4-161084 |
| S4-160928 | CR 26.454-0007 Interworking between different EVS Configurations (Rel-13) | Ericsson LM | 8.3 | S4-161019 |
| S4-160929 | CR 26.454-0008 Handling of Speech and SID payload (Rel-13) | Ericsson LM | 8.3 | S4-161020 |
| S4-160930 | CR 26.454-0009 Interworking between EVS and AMR-WB (Rel-13) | Ericsson LM | 8.3, 15.11 |  |
| S4-160931 | CR 26.454-0010 Correction to clause 6 Iu interface for EVSoCS (Rel-13) | Ericsson LM | 8.3, 15.11 |  |
| S4-160932 | CR 26.454-0011 Uu Interface User Plane for EVSoCS (Rel-13) | Ericsson LM | 8.3, 15.11 |  |
| S4-160933 | CR 26.454-0012 Nb Interface for EVSoCS (Rel-13) | Ericsson LM | 8.3, 15.11 |  |
| S4-160934 | CR 26.454-0013 Interworking between Nb and Mb (Rel-13) | Ericsson LM | 8.3 | S4-161076 |
| S4-160935 | CR 26.103-0046 Correction and Clarification of Codec Negotiation for EVSoCS (Rel-13) | Ericsson LM | 8.3 | S4-161077 |
| S4-160936 | CR 26.103-0047 Correction of CoID for UMTS\_EVS (Rel-13) | Ericsson LM | 8.3 |  |
| S4-160937 | CR 26.445-0023 Give NO\_REQ and none a clear definition (Rel-13) | Ericsson LM | 8.3 | S4-161018 |
| S4-160938 | CR 26.114-0386 Correction of SDP example (Rel-12) | Ericsson LM | 8.3, 15.14 |  |
| S4-160939 | CR 26.114-0387 Correction of SDP example (Rel-13) | Ericsson LM | 8.3, 15.14 |  |
| S4-160940 | CR 26.114-0388 Correction of SDP example (Rel-14) | Ericsson LM | 8.3, 15.14 |  |
| S4-160941 | CR 26.444-0011 Update of test vectors for the EVS codec (Rel-12) | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge, ZTE Corporation | 8.3, 15.14 |  |
| S4-160942 | CR 26.444-0012 Update of test vectors for the EVS codec (Rel-13) | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge, ZTE Corporation | 8.3, 15.14 |  |
| S4-160943 | SAND: Proposed Timeplan v0.3.0 | Intel (FS\_SAND Rapporteur) | 9.9 | S4-161052 |
| S4-160944 | Draft TR 26.957 SAND: v.0.6.0 | Intel (FS\_SAND Rapporteur) | 9.9 | S4-161053 |
| S4-160945 | SAND: Proposed Requirements and Gap Analysis on Consistent QoE/QoS | Intel | 9.9 | S4-161055 |
| S4-160946 | SAND: Proposed Editorial Updates on SAND Architecture for OTT Streaming Services | Intel | 9.9 |  |
| S4-160947 | SAND: Additional Architectural Options for SAND | Intel | 9.9 |  |
| S4-160948 | SAND: Initial Draft Conclusions and Potential Normative Work | Intel | 9.9 |  |
| S4-160949 | Draft New WID on “Server and Network Assisted DASH (SAND) for 3GPP Multimedia Services” | Intel | 9.13 |  |
| S4-160950 | IQoE: DASH Signaling of QP for Video MOS Support | Intel | 9.7 |  |
| S4-160951 | CR 26.223-0006 SDP Examples for MMCMH Support (Rel-14) | Intel | 12.5 | S4-161021 |
| S4-160952 | Use Case on TV Service Delivery over eMBMS | Qualcomm Incorporated | 9.10 | S4-161093 |
| S4-160953 | Draft Reply LS to RAN3 on SAND | Intel | 9.9 | S4-161100 |
| S4-160954 | SAND: TR 26.957 v.0.6.1 WITHDRAWN MISSING | Intel | 9.9 |  |
| S4-160955 | CR 26.223-0007 Recommendations and Guidelines on End-to-end QoS Handling and Media Adaptation (Rel-14) | Intel | 12.5, 17.5 |  |
| S4-160956 | CR 26.223-0008 Additional SDP Examples (Rel-14) | Intel | 12.5 | S4-161023 |
| S4-160957 | FS\_VR: Additional Use Case on VR Telepresence | Intel | 11.6 | S4-161065 |
| S4-160958 | FS\_VR: Additional Use Case on VR Streaming  | Intel | 11.6 | S4-161066 |
| S4-160959 | FS\_MCP\_V: Media Handling Aspects on MCVideo | Intel | 9.11 |  |
| S4-160960 | Gap Analysis of MBMS USD Support for DVB Service Information | Qualcomm Incorporated | 9.10 |  |
| S4-160961 | Draft CR TS 26.346 Announcing MooD Eligible Services WITHDRAWN MISSING | Expway | 9.5 |  |
| S4-160962 | Alternative Methods of MBMS USD Enhancements to Support DVB-over-eMBMS | Qualcomm Incorporated | 9.10 |  |
| S4-160963 | Report from SA4 MTSI SWG conf. call on Enhancements to MTSI extension on Multi-stream Multiparty Conferencing Media Handling (MMCMH\_Enh) on 25 July, 2016 | Qualcomm Incorporated | 6.1 |  |
| S4-160964 | MMCMH\_Enh WI Timeplan v0.0.3 | Qualcomm Incorporated | 12.6 | S4-161024 |
| S4-160965 | CR 26.980-0002 Querying and Exchanging Codec Capabilities for MMCMH (Rel-14) | Qualcomm Incorporated | 12.6 | S4-161025 |
| S4-160966 | CR 26.980-0003 Compact CCC SDP Attribute (Rel-14) | Qualcomm Incorporated | 12.6 | S4-161026 |
| S4-160967 | MMCMH\_Enh Using Compact Concurrent Codec Capabilities SDP for Session Initiation | Qualcomm Incorporated | 12.6 |  |
| S4-160968 | MMCMH\_Enh: Exchanging Mandatory and Optional Codec Information between MS-MTSI MRF and MS-MTSI Terminals | Qualcomm Incorporated | 12.6 | S4-161086 |
| S4-160969 | MMCMH\_Enh: MRF media handling, RTP stream pause, reuse, replace, and resume | Qualcomm Incorporated | 12.6 |  |
| S4-160970 | Options for applying higher P.NATS modes | Deutsche Telekom AG | 9.7 | S4-161043 |
| S4-160971 | IQoE Use case WebTV Quality Monitoring - Proposed Requirements | Deutsche Telekom AG | 9.7 | S4-161041 |
| S4-160972 | Use cases for VR | ORANGE | 11.6 | S4-161067 |
| S4-160973 | CR 26.346-0560 Use of ETag for Byte-Range-based File Repair Request (Rel-11) | Qualcomm Incorporated, ENENSYS, Ericsson LM, Expway, Samsung Electronics Co. Ltd | 9.5 | S4-161031 |
| S4-160974 | CR 26.346-0561 Use of ETag for Byte-Range-based File Repair Request (Rel-12) | Qualcomm Incorporated, ENENSYS, Ericsson LM, Expway, Samsung Electronics Co. Ltd | 9.5 | S4-161032 |
| S4-160975 | CR 26.346-0562 Use of ETag for Byte-Range-based File Repair Request (Rel-13) | Qualcomm Incorporated, ENENSYS, Ericsson LM, Expway, Samsung Electronics Co. Ltd | 9.5 | S4-161033 |
| S4-160976 | CR 26.346-0563 Use of ETag for Byte-Range-based File Repair Request (Rel-14) WITHDRAWN | Qualcomm Incorporated, ENENSYS, Ericsson LM, Expway, Samsung Electronics Co. Ltd | 9.5 |  |
| S4-160977 | TRAPI: Service APIs | Qualcomm Incorporated, Expway | 9.6 | S4-161035 |
| S4-160978 | Proposed Draft TR 26.953 v0.7.1 | QUALCOMM CDMA Technologies | 9.8 | S4-161096 |
| S4-160979 | Summary of Requirements for Interactivity Support at the Application, Service and Transport Levels | Qualcomm Incorporated | 9.8 |  |
| S4-160980 | CR 26.442-0018 Corrections to EVS Fixed-Point Source Code (Rel-12) | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge and ZTE Corporation | 8.3, 15.14 |  |
| S4-160981 | CR 26.442-0019 Corrections to EVS Fixed-Point Source Code (Rel-13) | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge and ZTE Corporation | 8.3, 15.14 |  |
| S4-160982 | Gaps in MBMS Service Layer for Interactivity Support WITHDRAWN MISSING | Qualcomm Incorporated | 9.8 |  |
| S4-160983 | CR 26.443-0015 Corrections to EVS Floating-Point Source Code (Rel-12) | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge and ZTE Corporation | 8.3, 15.14 |  |
| S4-160984 | CR 26.443-0016 Corrections to EVS Floating-Point Source Code (Rel-13) | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge and ZTE Corporation | 8.3, 15.14 |  |
| S4-160985 | Composite ZIP of proposed EVS Fixed-Point Source Code v12.8.0 / v13.3.0 | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge and ZTE Corporation | 8.3 |  |
| S4-160986 | Composite ZIP of proposed EVS Floating-Point Source Code v12.7.0 / v13.3.0 | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge and ZTE Corporation | 8.3 |  |
| S4-160987 | CR 26.102-0031 Clarification to avoid rate adaptation quality issues in uplink for UTRAN (Rel-13) | ORANGE | 7 | S4-161011 |
| S4-160988 | CR 26.202-0006 Clarification to avoid rate adaptation quality issues in uplink for UTRAN (Rel-13) | ORANGE | 7 | S4-161012 |
| S4-160989 | Proposals on clock accuracy and behaviour in presence of clock skew | ORANGE | 10.7 |  |
| S4-160990 | Possible enhancements to LTE terminal delay measurements | ORANGE | 10.7 |  |
| S4-160991 | On new profiles for LTE delay testing | ORANGE | 10.7 |  |
| S4-160992 | On the support of UE delay testing for MTSI-based speech services over Wifi radio access | ORANGE | 10.7 |  |
| S4-160993 | VR Video systems | ORANGE | 11.6 |  |
| S4-160994 | Proposed text additions for Audio Systems clause in TR 26.918 | Qualcomm, Incorporated | 11.6 |  |
| S4-160995 | Evaluation of the MBMS URL Forms | Apple (UK) Limited | 9.6 |  |
| S4-160996 | Virtual reality proposal | Dolby Laboratories Inc. | 11.6 | S4-161068 |
| S4-160997 | Editor’s Proposed Update to Draft TS 26.347 | Qualcomm Incorporated | 9.6, 17.3 |  |
| S4-160998 | TRAPI: Proposed Updated Schedule  | Qualcomm Incorporated | 9.6 | S4-161037 |
| S4-160999 | Context and Network Architecture | Qualcomm Incorporated | 9.6 |  |
| S4-161000 | Reference Client Architecture | Qualcomm Incorporated | 9.6 |  |
| S4-161001 | FS\_SAND: OTT Streaming Content in 3GPP | Qualcomm Incorporated | 9.9 |  |
| S4-161002 | pCR TR 26.918 Proposed Simplification of Use Cases for Virtual Reality | Qualcomm Incorporated | 11.6 |  |
| S4-161003 | Draft TR 26.917 USE\_3GPP\_4\_TV, v. 0.2.0 | Qualcomm Incorporated | 9.10 | S4-161095 |
| S4-161004 | pCR TR 26.917 on USE\_3GPP\_4\_TV: Use Cases | Qualcomm Incorporated | 9.10 |  |
| S4-161005 | pCR TR 26.917 USE\_3GPP\_4\_TV: Architectural Considerations | Qualcomm Incorporated | 9.10 |  |
| S4-161006 | pCR TR 26.917 USE\_3GPP\_4\_TV: Draft Gap Analysis | Qualcomm Incorporated | 9.10 |  |
| S4-161007 | Reply LS on scope of SA4 SAND SI | TSG RAN WG3 | 6.2, 9.3 |  |
| S4-161008 | VR video systems | Fraunhofer HHI | 11.6 |  |
| S4-161009 | Test plan proposal for conducting delay and speech quality over headset jack | Qualcomm Incorporated | 10.7 |  |
| S4-161010 | Proposed meeting schedule for SA4#90 (revised) | SA4 Chairman | 2 |  |
| S4-161011 | CR 26.102-0031 rev 1 Clarification to avoid rate adaptation quality issues in uplink for UTRAN (Rel-14) | ORANGE, Ericsson LM, Qualcomm Incorporated | 17.7 |  |
| S4-161012 | CR 26.202-0006 rev 1 Clarification to avoid rate adaptation quality issues in uplink for UTRAN (Rel-14) | ORANGE, Ericsson LM, Qualcomm Incorporated | 17.7 |  |
| S4-161013 | CR 26.445-0021 rev 1 Corrections to Algorithmic Description (Rel-12) | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge and ZTE Corporation | 8.3, 15.14 |  |
| S4-161014 | CR 26.445-0022 rev 1 Corrections to the Algorithmic Description (Rel-13) | Ericsson LM, Fraunhofer IIS, Huawei Technologies Co. Ltd, Nokia Corporation, NTT, NTT DOCOMO, INC., ORANGE, Panasonic Corporation, Qualcomm Incorporated, Samsung Electronics Co., Ltd., VoiceAge and ZTE Corporation | 8.3, 15.14 |  |
| S4-161015 | FS\_xMBMS: Text proposal on architectural considerations | Ericsson LM | 9.12 | S4-161091 |
| S4-161016 | CR 26.445-0024 Corrections regarding the EVS dtx and dtx-recv MIME parameters (Rel-13) | Nokia Corporation | 8.3, 15.14 |  |
| S4-161017 | CR 26.445-0025 Give NO\_REQ and none a clear definition (Rel-12) | Ericsson LM | 8.3, 15.14 | S4-161107 |
| S4-161018 | CR 26.445-0023 rev 1 Give NO\_REQ and none a clear definition (Rel-13) | Ericsson LM | 8.3, 15.14 | S4-161108 |
| S4-161019 | CR 26.454-0007 rev 1 Interworking between different EVS Configurations (Rel-13) | Ericsson LM | 8.3, 15.11 |  |
| S4-161020 | CR 26.454-0008 rev 1 Handling of Speech and SID payload (Rel-13) | Ericsson LM | 8.3, 15.11 |  |
| S4-161021 | CR 26.223-0006 rev 1 SDP Examples for MMCMH Support (Rel-14) | Intel | 12.5, 17.5 |  |
| S4-161022 | LS on QCI for CLUE Messages (To: TSG CT WG1, TSG CT WG3, TSG SA WG2) | TSG SA WG4 | 13, 17.5 |  |
| S4-161023 | CR 26.223-0008 rev 1 Additional SDP Examples (Rel-14) | Intel | 12.5, 17.5 |  |
| S4-161024 | MMCMH\_Enh: Proposed Time Plan v0.0.4 | Qualcomm Incorporated (MMCMH\_Enh Rapporteur) | 12.6, 17.6 |  |
| S4-161025 | CR 26.980-0002 rev 1 Querying and Exchanging Codec Capabilities for MMCMH (Rel-14) | Qualcomm Incorporated | 12.6, 17.6 | S4-161117 |
| S4-161026 | CR 26.980-0003 rev 1 Compact CCC SDP Attribute (Rel-14) | Qualcomm Incorporated | 12.6, 17.6 | S4-161116 |
| S4-161027 | CR 26.114-0385 rev 1 Re-insertion of simulcast and pause-resume (Rel-14) | Ericsson LM | 12.6, 17.6 |  |
| S4-161028 | DRAFT Reply LS on Introduction of simulcast and pause-resume usage into MMCMH (To: TSG CT WG4, Cc: TSG CT WG1, TSG CT WG3) | TSG SA WG4 | 17.6 | S4-161030 |
| S4-161029 | Reply LS on Device Configuration - additional information and parameters (To: GSMA RILTE, Cc: TSG CT WG1) | TSG SA WG4 | 6.3, 13 |  |
| S4-161030 | Reply LS on Introduction of simulcast and pause-resume usage into MMCMH (To: TSG CT WG4, TSG CT WG1, TSG CT WG3) | TSG SA WG4 | 17.6 |  |
| S4-161031 | CR 26.346-0560 rev 1 Use of ETag for Byte-Range-based File Repair Request (Rel-11) | Qualcomm Incorporated, ENENSYS, Ericsson LM, Expway, Samsung Electronics Co. Ltd | 9.5, 15.14 | S4-161109 |
| S4-161032 | CR 26.346-0561 rev 1 Use of ETag for Byte-Range-based File Repair Request (Rel-12) | Qualcomm Incorporated, ENENSYS, Ericsson LM, Expway, Samsung Electronics Co. Ltd | 9.5, 15.14 | S4-161110 |
| S4-161033 | CR 26.346-0562 rev 1 Use of ETag for Byte-Range-based File Repair Request (Rel-13) | Qualcomm Incorporated, ENENSYS, Ericsson LM, Expway, Samsung Electronics Co. Ltd | 9.5, 15.14 | S4-161111 |
| S4-161034 | Draft Reply on LS on external interface for TV services (To: TSG SA WG2, Cc: TSG CT WG3) | SA4 MBS SWG | 9.3, 18.4 | S4-161129 |
| S4-161035 | TRAPI: Service APIs | Qualcomm Incorporated, Expway | 9.6 |  |
| S4-161036 | Time Plan for FS\_IS3 | Qualcomm Incorporated (Rapporteur) | 18.2 |  |
| S4-161037 | TRAPI: Proposed Updated Schedule | Qualcomm Incorporated | 9.6, 17.3 |  |
| S4-161038 | On Video Codecs for MCVideo | Huawei Technologies Co Ltd, Ericsson LM, Motorola Solutions | 9.11 | S4-161049 |
| S4-161039 | Draft TR 26.909 Study on improved streaming Quality of Experience (IQoE) reporting in 3GPP services and networks v0.5.0 | Rapporteur (Huawei) | 9.7, 17.4 |  |
| S4-161040 | Time and work plan for IQoE | Huawei Technologies (Rapporteur) | 9.7, 17.4 |  |
| S4-161041 | Proposed Requirements for IQoE Use case: WebTV Quality Monitoring | Deutsche Telekom AG | 9.7 | S4-161101 |
| S4-161042 | Network Assistance for DASH | Ericsson LM, Sony Mobile Communications | 9.9, 18.3 | S4-161130 |
| S4-161043 | Options for applying higher P.NATS modes | Deutsche Telekom AG, Intel | 9.7 |  |
| S4-161044 | SAND: Proposed Requirements and Gap Analysis on Consistent QoE/QoS | Intel | 9.9, 18.3 | S4-161119 |
| S4-161045 | DRAFT Reply LS on QoE reporting for streaming services (To: TSG RAN WG2, TSG RAN WG3, TSG SA WG5) | TSG SA WG4 | 9.3, 17.4 | S4-161089 |
| S4-161046 | FS\_xMBMS: Text proposal on updated use cases and requirements | Ericsson LM | 9.12 | S4-161060 |
| S4-161047 | DRAFT Reply to LS from ITU-T SG12/Q14 on P.NATS | TSG SA WG4 | 9.7 | S4-161099 |
| S4-161048 | Time and Work Plan for FS\_MCP\_V | Huawei Technologies (Rapporteur) | 9.11, 18.5 |  |
| S4-161049 | On Video Codecs for MCVideo | Huawei Technologies Co Ltd, Ericsson LM, Motorola Solutions | 9.11 | S4-161098 |
| S4-161050 | FS\_MCP\_V TR 26.880 v0.2.0 | Editor (Huawei) | 9.11, 18.5 |  |
| S4-161051 | Consideration to support MC video | Huawei Tech.(UK) Co., Ltd | 9.11 |  |
| S4-161052 | SAND: Proposed Timeplan v0.4.0 | Intel (FS\_SAND Rapporteur) | 9.9, 18.3 | S4-161090 |
| S4-161053 | Draft TR 26.957 Study on Server And Network-assisted Dynamic Adaptive Streaming over HTTP (DASH) (SAND) for 3GPP multimedia services: v.0.7.0  | Intel (FS\_SAND Rapporteur) | 9.9, 18.3 |  |
| S4-161054 | Network Assistance for DASH | Ericsson LM, Sony Mobile Communications | 9.9 | S4-161042 |
| S4-161055 | SAND: Proposed Requirements on Consistent QoE/QoS for DASH Users | Intel | 9.9 | S4-161044 |
| S4-161056 | CORS Considerations for SAND | Samsung Electronics Co., Ltd | 9.9 |  |
| S4-161057 | Draft LS on CORS in DASH and SAND (To: ISO/IEC SC29/WG11 (MPEG), DASH-IF) | TSG SA WG4 | 9.9 | S4-161102 |
| S4-161058 | TR 26.981 MBMS Extensions for Provisioning and Content Ingestion v0.1.0 (FS\_xMBMS) | Editor (Ericsson LM) | 9.12 | S4-161104 |
| S4-161059 | pCR TR 26.981 on PWS use case WITHDRAWN MISSING | one2many B.V. | 9.12, 18.6 |  |
| S4-161060 | FS\_xMBMS: Text proposal on updated use cases and requirements | Ericsson LM | 9.12 | S4-161097 |
| S4-161061 | Draft 3GPP TR 26.932 User Equipment (UE) characteristics and performance for video telephony, V0.3.0 | Editor (ORANGE) | 11.5, 18.7 |  |
| S4-161062 | FS\_UE\_VTPerf Project plan, v0.3.0 | FS\_UE\_VTPerf rapporteur (ORANGE) | 11.5, 18.7 |  |
| S4-161063 | Virtual Reality Definition Proposal | Huawei Technologies Co Ltd, ORANGE | 11.6 |  |
| S4-161064 | TR 26.918 Virtual reality (VR) media services over 3GPP v0.3.0 | Rapporteur (ORANGE) | 18.8 |  |
| S4-161065 | FS\_VR: Additional Use Case on VR Telepresence | Intel | 11.6 |  |
| S4-161066 | FS\_VR: Additional Use Case on VR Streaming  | Intel | 11.6 | S4-161070 |
| S4-161067 | Use cases for VR | ORANGE | 11.6 |  |
| S4-161068 | Virtual reality proposal | Dolby Laboratories Inc. | 11.6 |  |
| S4-161069 | Virtual Reality Synchronization Aspects Proposal | HUAWEI Technologies Co Ltd | 11.6 |  |
| S4-161070 | FS\_VR: Additional Use Case on VR Streaming | Intel | 11.6 |  |
| S4-161071 | Updated timeplan FS\_VR 0.3.0 | Rapporteur (ORANGE) | 18.8 |  |
| S4-161072 | VIDEO SWG report during SA4#90 | VIDEO SWG chairman | 14.5 |  |
| S4-161073 | Draft LS on corrections of EVS specifications (To: TSG CT WG3, TSG CT WG4, Cc: TSG CT WG1) | TSG SA WG4 | 8.3, 14.1 | S4-161085 |
| S4-161074 | Report from SA4#90 EVS SWG | EVS SWG Secretary | 14.1 |  |
| S4-161075 | CR 26.454-0014 Clarification to avoid rate adaptation quality issues in uplink for UTRAN (Rel-13) | ORANGE, Ericsson LM, Qualcomm Incorporated | 15.11 |  |
| S4-161076 | CR 26.454-0013 rev 1 Interworking between Nb and Mb (Rel-13) | Ericsson LM | 8.3, 15.11 |  |
| S4-161077 | CR 26.103-0046 rev 1 Correction and Clarification of Codec Negotiation for EVSoCS (Rel-13) | Ericsson LM | 8.3, 15.11 |  |
| S4-161078 | LS to SA4 on the progress of study on enhancement of VoLTE POSTPONED | TSG RAN WG2 | 13 |  |
| S4-161079 | Revised pCR Draft TR 26.931 Additional information on use of P.862 and P.863 | Knowles Inc. | 10.8 |  |
| S4-161080 | Update of Draft TR 26.931 Study of Enhanced Acoustic Test Specifications (Release 14), v. 0.1.0 | Editor (Knowles Inc.) | 10.8, 18.1 |  |
| S4-161081 | DESUDAPS-3 Time Plan of DESUDAPS work item, v. 0.6 | Editors (Qualcomm, Incorporated, Knowles Inc.) | 10.6, 17.1 |  |
| S4-161082 | Revised Work Item on Extension of UE delay test methods and requirements | ORANGE, Intel, HEAD acoustics GmbH, Qualcomm Incorporated | 10.7, 17.2 | S4-161113 |
| S4-161083 | Time plan for EXT\_UED Work Item, v. 0.2.0 | EXT\_UED Rapporteur (ORANGE) | 10.7, 17.2 | S4-161114 |
| S4-161084 | CR 26.454-0006 rev 1 Filtering and Modification of EVS-CMR (Rel-13) | Ericsson LM | 15.11 |  |
| S4-161085 | LS on corrections of EVS specifications (To: TSG CT WG3, TSG CT WG4, Cc: TSG CT WG1) | TSG SA WG4 | 13, 14.1 |  |
| S4-161086 | MMCMH\_Enh: Exchanging Mandatory and Optional Codec Information between MSMTSI MRF and MSMTSI Terminals | Qualcomm Incorporated | 12.6 |  |
| S4-161087 | Draft report of the MTSI SWG meeting held during SA4#90 | MTSI SWG Secretary | 14.3 | S4-161115 |
| S4-161088 | Reply to LS from ITU-T SG12/Q14 on P.NATS (To: ITU-T SG12/Q14) | TSG SA WG4 | 17.4 |  |
| S4-161089 | Draft Reply LS on QoE reporting for streaming services (To: TSG RAN WG2, TSG RAN WG3, TSG SA WG5, Cc: TSG RAN) | TSG SA WG4 | 17.4 | S4-161126 |
| S4-161090 | SAND: Proposed Timeplan v0.4.1 | Intel (FS\_SAND Rapporteur) | 18.3 |  |
| S4-161091 | FS\_xMBMS: Text proposal on architecture and procedures | Ericsson LM | 9.12 |  |
| S4-161092 | FS\_xMBMS: Text Proposal on architecture and procedures | Ericsson LM | 9.12 | S4-161105 |
| S4-161093 | Use Case on TV Service Delivery over eMBMS | Qualcomm Incorporated | 9.10, 18.4 |  |
| S4-161094 | Distribution of ATSC 3.0 over TMB2 | Samsung Electronics Co., Ltd | 9.12, 18.4 | S4-161127 |
| S4-161095 | Draft TR 26.917 v0.3.0 USE\_3GPP\_4\_TV | Qualcomm Incorporated | 9.10, 18.4 |  |
| S4-161096 | Presentation of Specification to TSG: TR 26.953 Interactivity Support for 3GPP-Based Streaming and Download Services, Version 0.8.0 (FS\_IS3) | Rapporteur FS\_IS3 | 9.8, 18.2 |  |
| S4-161097 | FS\_xMBMS: Text proposal on updated use cases and requirements | Ericsson LM | 9.12 |  |
| S4-161098 | On Video Codecs for MCVideo (Revision of S4-161049, S4-161038 and S4-160900) | Huawei Technologies Co Ltd, Ericsson LM, Motorola Solutions | 9.11 | S4-161103 |
| S4-161099 | DRAFT Reply to LS from ITU-T SG12/Q14 on P.NATS | TSG SA WG4 | 9.3, 17.4 | S4-161088 |
| S4-161100 | Draft Reply LS on SAND (To: TSG RAN WG3, Cc: TSG RAN WG2) | TSG SA WG4 | 9.9, 18.3 | S4-161121 |
| S4-161101 | Proposed Requirements for IQoE Use case: WebTV Quality Monitoring | Deutsche Telekom AG | 9.7 |  |
| S4-161102 | Draft LS on CORS in DASH and SAND (To: ISO/IEC SC29/WG11 (MPEG), DASH-IF) | TSG SA WG4 | 9.9, 13, 18.3 | S4-161120 |
| S4-161103 | On Video Codecs for MCVideo | Huawei Technologies Co Ltd, Ericsson LM, Motorola Solutions | 9.11 | S4-161118 |
| S4-161104 | TR 26.981 v0.2.0 on MBMS Extensions for Provisioning and Content Ingestion | Editor (Ericsson) | 9.12, 18.6 | S4-161124 |
| S4-161105 | FS\_xMBMS: Text Proposal on architecture and procedures | Ericsson LM | 9.12, 18.6 |  |
| S4-161106 | Draft New Work Item on Mobile Network Interface for MBMS Delivery of Media and TV services (MI\_MTV) | Ericsson LM, ENENSYS Technologies, Qualcomm Incorporated, EXPWAY, Samsung Electronics Co., Ltd., Huawei | 9.13, 20 | S4-161122 |
| S4-161107 | CR 26.445-0025 rev 1 Give NO\_REQ and none a clear definition (Rel-12) | Ericsson LM | 15.14 |  |
| S4-161108 | CR 26.445-0023 rev 2 Give NO\_REQ and none a clear definition (Rel-13) | Ericsson LM | 15.14 |  |
| S4-161109 | CR 26.346-0560 rev 2 Use of ETag for Byte-Range-based File Repair Request (Rel-11) | Qualcomm Incorporated, ENENSYS, Ericsson LM, Expway, Samsung Electronics Co. Ltd | 15.14 |  |
| S4-161110 | CR 26.346-0561 rev 2 Use of ETag for Byte-Range-based File Repair Request (Rel-12) | Qualcomm Incorporated, ENENSYS, Ericsson LM, Expway, Samsung Electronics Co. Ltd | 15.14 |  |
| S4-161111 | CR 26.346-0562 rev 2 Use of ETag for Byte-Range-based File Repair Request (Rel-13) | Qualcomm Incorporated, ENENSYS, Ericsson LM, Expway, Samsung Electronics Co. Ltd | 15.14 |  |
| S4-161112 | Draft 3GPP SA4 MBS SWG report at SA4#90 | MBS SWG Chairman | 14.2 | S4-161125 |
| S4-161113 | Revised Work Item on Extension of UE delay test methods and requirements | ORANGE, Intel, HEAD acoustics GmbH, Qualcomm Incorporated | 17.2 | S4-161123 |
| S4-161114 | Time plan for EXT\_UED Work Item, v. 0.2.1 | EXT\_UED Rapporteur (ORANGE) | 17.2 |  |
| S4-161115 | Report of the MTSI SWG meeting held during SA4#90 | MTSI SWG Secretary | 14.3 |  |
| S4-161116 | CR 26.980-0003 rev 2 Compact CCC SDP Attribute (Rel-14) | Qualcomm Incorporated | 17.6 |  |
| S4-161117 | CR 26.980-0002 rev 2 Querying and Exchanging Codec Capabilities for MMCMH (Rel-14) | Qualcomm Incorporated | 17.6 |  |
| S4-161118 | On Video Codecs for MCVideo | Huawei Technologies Co Ltd, Ericsson LM, Motorola Solutions | 18.5 |  |
| S4-161119 | SAND: Proposed Requirements and Gap Analysis on Consistent QoE/QoS | Intel | 18.3 |  |
| S4-161120 | LS on CORS in DASH and SAND (To: ISO/IEC SC29/WG11 (MPEG), DASH-IF) | TSG SA WG4 | 13, 18.3 |  |
| S4-161121 | Reply LS on SAND (To: TSG RAN WG3, Cc: TSG RAN WG2) | TSG SA WG4 | 9.9, 18.3 |  |
| S4-161122 | Draft New Work Item on Mobile Network Interface for MBMS Delivery of Media and TV services (SA\_enTV-MI\_MTV) | Ericsson LM, ENENSYS Technologies, Qualcomm Incorporated, EXPWAY, Samsung Electronics Co., Ltd., Huawei | 20 | S4-161128 |
| S4-161123 | Revised Work Item on Extension of UE delay test methods and requirements | ORANGE, Intel, HEAD acoustics GmbH, Qualcomm Incorporated | 17.2 |  |
| S4-161124 | TR 26.981 v0.3.0 on MBMS Extensions for Provisioning and Content Ingestion | Editor (Ericsson) | 18.6 |  |
| S4-161125 | 3GPP SA4 MBS SWG report at SA4#90 | MBS SWG Chairman | 14.2 |  |
| S4-161126 | Reply LS on QoE reporting for streaming services (To: TSG RAN WG2, TSG RAN WG3, TSG SA WG5, Cc: TSG RAN) | TSG SA WG4 | 17.4 |  |
| S4-161127 | Distribution of ATSC 3.0 over TMB2 | Samsung Electronics Co., Ltd | 9.12, 18.4 |  |
| S4-161128 | New Work Item on Mobile Network Interface for MBMS Delivery of Media and TV services (SA\_enTV-MI\_MTV) | Ericsson LM, ENENSYS Technologies, Qualcomm Incorporated, EXPWAY, Samsung Electronics Co., Ltd., Huawei | 20 |  |
| S4-161129 | Draft Reply on LS on external interface for TV services (To: TSG SA WG2, Cc: TSG CT WG3) | SA4 MBS SWG | 9.3, 18.4 |  |
| S4-161130 | Network Assistance for DASH | Ericsson LM, Sony Mobile Communications | 18.3 | S4-161131 |
| S4-161131 | Network Assistance for DASH | Ericsson LM, Sony Mobile Communications | 18.3 |  |
| S4-161132 | Draft Report of SA4#90 meeting, v. 0.0.1 | TSG-S4 Secretary |  |  |