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| --- | --- | --- | --- | --- |
| Tdoc | Title | Source(s) | Agenda Item(s) | Replaced by |
| S4-190272 | Draft Report of SA4#102 meeting, v. 0.0.1 | TSG-S4 Secretary | 4 |  |
| S4-190273 | Meeting agenda for SA4#103 | SA4 Chairman | 2 |  |
| S4-190274 | Proposed meeting schedule for SA4#103 | SA4 Chairman | 2 | S4-190441 |
| S4-190275 | Brief report from SA#83 on SA4 matters | SA4 chairman | 5.2 |  |
| S4-190276 | LS reply on maxe2e-PLR in SDP Offer for CHEM Feature | TSG CT WG3 | 5.2 |  |
| S4-190277 | LS on Group Message Delivery | TSG CT WG3 | 5.2 |  |
| S4-190278 | LS on SDP Exchange for FEC support | TSG CT WG3 | 5.2 |  |
| S4-190279 | Reply LS on Setting DBI Message Interval based on delayBudgetReportingProhibitTimer Configurations | TSG RAN WG2 | 5.2 |  |
| S4-190280 | LS reply on Informing PCF/PCRF of End-to-end RAN Assisted Codec Adaptation (ANBR) Support | TSG SA WG2 | 5.2 |  |
| S4-190281 | LS on Typical Traffic Characteristics of Third-Party and Operator Media Services | TSG SA WG4 | 5.2 |  |
| S4-190282 | LS reply on Collection of Slice Related Data Analytics from UEs | TSG SA WG5 | 5.2 |  |
| S4-190283 | LS on Request of comments on CTA-2066 - QoE document | CTA | 5.3 | S4-190289 |
| S4-190284 | LS on the availability of and requesting feedback on the stable draft TR 103 582 from ETSI STF555 - "Study of use cases and communications involving IoT devices in emergency situations" | ETSI SC EMTEL | 5.3 |  |
| S4-190285 | LS on EVS Codec Negotiation | GSMA NG RILTE | 5.3 |  |
| S4-190286 | LS on Codec Mode-sets POSTPONED | GSMA RILTE | 5.3 |  |
| S4-190287 | LS reply to 3GPP SA4 on 5G MTSI Client Profiles | GSMA RILTE | 5.3 |  |
| S4-190288 | LS/r on consent of revised ITU-T Q.731.3 (reply to SG2-LS 90) WITHDRAWN | ITU-T Study Group 11 | 5.3 |  |
| S4-190289 | LS on Request of comments on CTA-2066 - QoE document | CTA | 5.3 |  |
| S4-190290 | CR 26.952-0009 Addition of the Worst-case complexity numbers to the Characterization Results of the Alternative Fixed-Point Implementation of EVS. Description of the configuration used to assess the complexity (Release 16) | Cadence Design Systems Inc., VoiceAge Corporation | 7.6, 15.3 | S4-190477 |
| S4-190291 | Proposed Timeplan for 5G\_MEDIA\_MTSI\_ext (v.0.3.0) | Intel (Rapporteur) | 11.7, 15.6 |  |
| S4-190292 | CR 26.114-0461 Signaling of ANBR Capabilities (Release 16) | Intel | 11.7 | S4-190489 |
| S4-190293 | Draft CR 26.114 SDP Examples on Usage of 'anbr' Attribute (Release 16) | Intel | 11.7 |  |
| S4-190294 | Draft Reply LS on Informing PCF/PCRF of End-to-end RAN Assisted Codec Adaptation (ANBR) Support (To: SA2, CT1) | Intel | 11.7 | S4-190418 |
| S4-190295 | Proposed Timeplan for E2E\_DELAY (v0.3.0) | Intel (Rapporteur) | 11.6 |  |
| S4-190296 | CR 26.114-0462 Additional DBI Signaling Recommendations (Release 16) | Intel | 11.6 | S4-190497 |
| S4-190297 | CR 26.114-0463 SDP Examples on DBI Signaling (Release 16) | Intel | 11.6 | S4-190498 |
| S4-190298 | Draft Reply LS on Setting DBI Message Interval based on delayBudgetReportingProhibitTimer Configurations (To: RAN2) | Intel | 11.6 | S4-190499 |
| S4-190299 | Work Item Summary for E2E\_DELAY | Intel (Rapporteur) | 11.6 | S4-190500 |
| S4-190300 | Proposed Timeplan for ITT4RT (v0.1.0) | Intel, Huawei Technologies Co. Ltd. (ITT4RT Rapporteurs) | 11.9 | S4-190504 |
| S4-190301 | ITT4RT Permanent Document - Requirements, Working Assumptions and Potential Solutions (v0.1.0) | Intel, Huawei Technologies Co. Ltd. (ITT4RT Rapporteurs) | 11.9 | S4-190503 |
| S4-190302 | ITTRT Use Case and Gap Analysis | Intel | 11.9 | S4-190501 |
| S4-190303 | VoNR Issue concerning RAN Delay Budget Reporting | Intel | 11.12 |  |
| S4-190304 | IVAS-4 Design Constraints v0.0.9\_Draft2 | Huawei Technologies France | 7.5 | S4-190450 |
| S4-190305 | On the default renderer for IVAS | Huawei Technologies France | 7.5 |  |
| S4-190306 | Draft LS on the usage of SDAP in MTSI and re-usability of delay and error profiles (To: RAN WG1, RAN WG2, SA WG2, Cc: GSMA 5GJA) | Samsung Electronics Iberia SA | 11.12 | S4-190496 |
| S4-190307 | Draft LS on the implementation issues of RAN-assisted codec adaptation (To: RAN WG1, RAN WG2, Cc: GSMA 5GJA) | Samsung Electronics Iberia SA | 11.12 | S4-190487 |
| S4-190308 | CT issues in the operation of VoNR | Samsung Electronics Iberia SA | 11.12 |  |
| S4-190309 | pCR to TR 26.985 Proposed Text for Media Consideration (Release 16) | Samsung Electronics Iberia SA | 11.10 | S4-190509 |
| S4-190310 | VIDEO SWG telco report on XR5G #1 | Video SWG Chairman (Orange) | 5.1 |  |
| S4-190311 | VIDEO SWG telco report on XR5G #2 | Video SWG Chairman (Orange) | 5.1 |  |
| S4-190312 | VIDEO SWG telco report on XR5G #3 | Video SWG Chairman (Orange) | 5.1 |  |
| S4-190313 | Draft Reply LS on 5G MTSI Client Profiles (To: GSMA RiLTE, GSMA 5GJA) | Intel | 11.7 | S4-190491 |
| S4-190314 | Draft Report for MTSI-MBS SWG February 25 2019 Teleconference on E-FLUS | Qualcomm Incorporated | 5.1 |  |
| S4-190315 | Draft Report for MTSI-EVS SWG March 4 2019 Teleconference on CHEM | Qualcomm Incorporated | 5.1 |  |
| S4-190316 | Draft Report for MTSI SWG March 18 2019 Teleconference on VoIP over NR SID | Qualcomm Incorporated | 5.1 |  |
| S4-190317 | Draft Report for MTSI SWG 25 March 2019 Teleconference on VoIP over NR SID | Qualcomm Incorporated | 5.1 |  |
| S4-190318 | Draft Report for MTSI SWG 28 March 2019 Teleconference on 5G\_MEDIA\_MTSI\_ext | Qualcomm Incorporated | 5.1 |  |
| S4-190319 | Using MPEG NBMP for E-FLUS | Qualcomm Incorporated | 11.5 |  |
| S4-190320 | Draft CR 26.939 Desired QoS Latency Behavior for FLUS | Qualcomm Incorporated | 11.5 | S4-190488 |
| S4-190321 | CR 26.114-0446 rev 4 on CHEM (Release16) | Qualcomm Incorporated | 11.8 | S4-190505 |
| S4-190322 | pCR to TR 26.985 VRU Device Considerations | Qualcomm Incorporated | 11.10 |  |
| S4-190323 | pCR to TR 26.929 on FS\_QoE\_VR: MPEG Immersive Media Metrics | InterDigital Communications, Inc., Huawei Technologies Co. Ltd., Fraunhofer HHI | 10.5 |  |
| S4-190324 | Draft IVAS-1 Codec development overview v0.0.4 | Huawei Technologies France | 7.5, 16.1 |  |
| S4-190325 | CR 26445-0046 Correction and addition of reference to Alt\_FX\_EVS implementation (Release16) | Huawei Technologies France | 7.6, 15.3 |  |
| S4-190326 | pCR to TR 26.925 on FS\_TyTraC: Information Collection Updates | Qualcomm Incorporated | 8.9 |  |
| S4-190327 | pCR to TR 26.925 on FS\_TyTraC: Technology Developments Updates | Qualcomm Incorporated | 8.9 |  |
| S4-190328 | Draft CR 26.118: Presentation without Pose Information and Flat Rendering | Qualcomm Incorporated | 10.4 |  |
| S4-190329 | FS\_XR5G: Editor's Proposed Updates to Permanent Document | Qualcomm Incorporated | 10.6 |  |
| S4-190330 | pCR to TR 26.928 on FS\_XR5G: Editor's Proposed Updates to Technical Report | Qualcomm Incorporated | 10.6 |  |
| S4-190331 | FS\_XR5G: Updates to ongoing standards activities | Qualcomm Incorporated | 10.6 |  |
| S4-190332 | FS\_XR5G: Updates to Definitions WITHDRAWN MISSING | Qualcomm Incorporated | 10.6 |  |
| S4-190333 | FS\_XR5G: Updates to Key Technologies WITHDRAWN MISSING | Qualcomm Incorporated | 10.6 |  |
| S4-190334 | FS\_XR5G: Updates on Architectures | Qualcomm Incorporated | 10.6 | S4-190527 |
| S4-190335 | FS\_XR5G: New Use Cases | Qualcomm Incorporated | 10.6 |  |
| S4-190336 | Work Plan for FS\_XR5G | Qualcomm Incorporated | 10.6 | S4-190537 |
| S4-190337 | Characterization and Interop of VRStream Technologies | Qualcomm Incorporated | 10.7 |  |
| S4-190338 | pCR to TS 26.501 5GMSA: Comments and Updates to TS | Qualcomm Incorporated | 8.8 |  |
| S4-190339 | 5GMSA: Continued PSS Analysis | Qualcomm Incorporated | 8.8 |  |
| S4-190340 | FS\_XR5G: Updates on Use Cases 21 and 22 | KPN N.V. | 10.6 |  |
| S4-190341 | Aligning FLUS architecture specification for 5G SBA way of specifying interfaces | Ericsson LM | 11.5 | S4-190508 |
| S4-190342 | pCR to TS 26.501 Procedures for 5G Downlink Media Streaming | Ericsson LM | 8.8 | S4-190452 |
| S4-190343 | pCR to TS 26.501 Procedures for 5G Uplink Media Streaming | Ericsson LM | 8.8 | S4-190453 |
| S4-190344 | MC xMB: Use-Case for MCData | Ericsson LM | 8.7 |  |
| S4-190345 | CR 26.348-0003 Support for Multiplexing MCData Sessions on one MBMS Bearer (Release 16) | Ericsson LM | 8.7, 15.9 | S4-190479 |
| S4-190346 | IVAS audio formats and interfaces | Ericsson LM | 7.5 |  |
| S4-190347 | IVAS binaural audio definition | Ericsson LM | 7.5 |  |
| S4-190348 | IVAS testing | Ericsson LM | 7.5 |  |
| S4-190349 | Updates to Use Case #11: AR guided assistant at remote location (industrial services) | Ericsson LM | 10.6 |  |
| S4-190350 | Updates to Use Case #12: Police Critical Mission with AR | Ericsson LM | 10.6 |  |
| S4-190351 | Network modification of AMR-WB mode-set (Release 16) | Ericsson LM | 11.11 |  |
| S4-190352 | Draft CR 26.114 on CVO clarifications (Release 15) | Ericsson LM | 11.4 | S4-190482 |
| S4-190353 | Report of MBS SWG Telco on 5GMSA 20 February 2019 | SA4 MBS Chairman (Ericsson LM) | 5.1 |  |
| S4-190354 | Report of MBS SWG Telco on 5GMSA 14 March 2019 | SA4 MBS Chairman (Ericsson LM) | 5.1 |  |
| S4-190355 | Report of MBS Telco on TyTrac (18 February) | SA4 MBS Chairman (Ericsson LM) | 5.1 | S4-190369 |
| S4-190356 | Work Plan for 5GMSA v0.3 | Rapporteur (Ericsson LM) | 8.8 | S4-190472 |
| S4-190357 | pCR to TS 26.501: editorial updates | Rapporteur (Ericsson LM) | 8.8 |  |
| S4-190358 | Proposed cover page for TS 26.501 presentation to SA#84 WITHDRAWN MISSING | Rapporteur (Ericsson LM) | 8.8 |  |
| S4-190359 | Draft LS on TS 26.501 5G Media Streaming (5GMS); General description and architecture (To: SA2) WITHDRAWN MISSING | Ericsson LM | 8.8 |  |
| S4-190360 | Proposed updates to 5GMSA Permanent Document on list of functionalities | Ericsson LM | 8.8 | S4-190457 |
| S4-190361 | Draft WID on 5G Media Streaming (5GMS) stage 3 | Ericsson LM | 8.8 |  |
| S4-190362 | Work Item summary for 5GMSA WITHDRAWN MISSING | Rapporteur (Ericsson LM) | 8.8 |  |
| S4-190363 | pCR to TS 26.501: Metrics collection and reporting | Ericsson LM | 8.8 | S4-190454 |
| S4-190364 | pCR to TR 26.929 on VR QoE metrics additions | Ericsson LM | 10.5 |  |
| S4-190365 | Draft CR to TS 26.114 on Clarification for QoE jitter metrics calculation (Release 16) | Ericsson LM | 11.11, 15.12 | S4-190480 |
| S4-190366 | New WID on VR QoE Metrics | Ericsson LM | 10.7 |  |
| S4-190367 | CR 26.238-0003 rev 3 Remote Assist / Control Interface (Release 16) | Ericsson LM | 11.5 | S4-190507 |
| S4-190368 | Volumetric Video Capture and Production for XR | Fraunhofer HHI | 10.6 |  |
| S4-190369 | Report of MBS Telco on TyTrac (18 February) | SA4 MBS Chairman (Ericsson LM) | 5.1 |  |
| S4-190370 | Discussion on input format testing | Qualcomm UK Ltd | 7.5 |  |
| S4-190371 | pCR to TS 26.501 on RAN Signaling based Uplink Assistance in 5GMSA | Qualcomm Incorporated | 8.8 | S4-190455 |
| S4-190372 | Rationale for Revising SerInter WID Objective | Qualcomm Incorporated | 8.6 |  |
| S4-190373 | Revised WID for SerInter | Qualcomm Incorporated | 8.6 | S4-190466 |
| S4-190374 | Time Plan for SerInter Work Item | Qualcomm Incorporated | 8.6 | S4-190465 |
| S4-190375 | Draft CR to TR 26.939 on QoS Support in FLUS (Release 16) | Qualcomm Incorporated | 11.5 | S4-190511 |
| S4-190376 | Draft CR to TS 26.238 on Remote Assist/Control Interface message Format (Release 16) | Qualcomm Incorporated | 11.5 |  |
| S4-190377 | CR 26.114-0464 Update FLEX FEC Usage and Reference (Release 13) | Qualcomm Incorporated | 11.4, 14.12 |  |
| S4-190378 | CR 26.114-0465 Update FLEX FEC Usage and Reference (Release 14) | Qualcomm Incorporated | 11.4, 14.12 |  |
| S4-190379 | CR 26.114-0466 Update FLEX FEC Usage and Reference (Release 15) | Qualcomm Incorporated | 11.4, 14.12 |  |
| S4-190380 | CR 26.114-0467 Update FLEX FEC Usage and Reference (Release 16) | Qualcomm Incorporated | 11.4, 14.12 |  |
| S4-190381 | Draft EVS SWG agenda | Qualcomm Austria RFFE GmbH | 7 | S4-190551 |
| S4-190382 | pCR to TR 26.929 on Influence of network round-trip delay for tile-based streaming 360° videos on QoE WITHDRAWN MISSING | Deutsche Telekom AG | 10.5 |  |
| S4-190383 | Time Plan for FS\_AnTEM v0.1 | Rapporteur (HEAD acoustics GmbH) | 9.7 | S4-190448 |
| S4-190384 | Network assistance for DASH | KPN N.V. | 8.8 |  |
| S4-190385 | Considerations on IVAS Pass-through Operation | Dolby Laboratories Inc. | 7.5 |  |
| S4-190386 | General Considerations on MASA | Dolby Laboratories Inc. | 7.5 |  |
| S4-190387 | Suggested Updates to MASA | Dolby Laboratories Inc. | 7.5 |  |
| S4-190388 | IVAS Default Renderer Output Format Support | Dolby Laboratories Inc. | 7.5 |  |
| S4-190389 | On IVAS Default Renderer Output Format Performance | Dolby Laboratories Inc. | 7.5 |  |
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| S4-190392 | Initial Considerations on Objective Test Methods Developed Under ATIAS | Dolby Laboratories Inc. | 9.5 |  |
| S4-190393 | IVAS binaural audio input format definition | Philips International B.V. | 7.5 |  |
| S4-190394 | Experimental results for MASA TF resolution selection | Nokia Corporation | 7.5 |  |
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| S4-190396 | Examples of object-based audio control metadata for IVAS | Nokia Corporation | 7.5 |  |
| S4-190397 | Discussion on compatibility between eMBMS LTE services and the 5G Media Functions | Expway | 8.8 |  |
| S4-190398 | CR 26.347-0007 on new API providing the SA file (Release 16) | Expway | 8.7 | S4-190468 |
| S4-190399 | pCR to TR 26.921 on Additional investigations on noise field simulation | HEAD acoustics GmbH | 9.7 | S4-190446 |
| S4-190400 | On Recommended Viewport Metadata | InterDigital Communications | 10.4 |  |
| S4-190401 | Draft CR to TS 26.238 on E-FLUS media production stage 2 solution (Release 16) | Sony Europe B.V. | 11.5 |  |
| S4-190402 | E-FLUS Network Assistance WITHDRAWN MISSING | Sony Mobile Communications, Ericsson LM | 11.5 |  |
| S4-190403 | IVAS Usage Scenarios (IVAS-9) - Initial Version | Nokia Corporation (Editor) | 7.5 | S4-190541 |
| S4-190404 | EVS Float Conformance | Intel, Fraunhofer IIS, Apple | 7.7 |  |
| S4-190405 | On Suitability of HATS for Measurements of Non-Traditional Earpieces | Qualcomm Incorporated | 9.6 |  |
| S4-190406 | FS\_HaNTE - Suggestions on phone mounting | Sony Mobile Communications, Qualcomm Incorporated | 9.6 |  |
| S4-190407 | Draft LS on handset positioning for acoustic measurements (FS\_HaNTE) (To: ITU-T SG12) | Sony Mobile Communications, Qualcomm Incorporated | 9.6 | S4-190443 |
| S4-190408 | On EVS Adaptive DTX Mode | Qualcomm Austria RFFE GmbH | 7.3 |  |
| S4-190409 | Edits on AHVIC-183 / AHVIC-184 | Fraunhofer IIS | 10.6 |  |
| S4-190410 | Proposed Definition of Binaural Audio | Fraunhofer IIS | 7.5 |  |
| S4-190411 | Considerations on object-based audio metadata for IVAS | Fraunhofer IIS | 7.5 |  |
| S4-190412 | Draft TR 26.801 UEs Supporting Handset Mode with Non-Traditional Earpieces, v. 0.0.1 (Release 17) | Rapporteur (Qualcomm Incorporated) | 9.6 | S4-190444 |
| S4-190413 | On Output Formats | Fraunhofer IIS | 7.5 |  |
| S4-190414 | Pass-through Operation and External Rendering Interface | Fraunhofer IIS | 7.5 |  |
| S4-190415 | IVAS High-Level Codec Elements and Definitions | Fraunhofer IIS | 7.5 |  |
| S4-190416 | On the Importance of the Reference for IVAS Testing | Fraunhofer IIS | 7.5 |  |
| S4-190417 | Proposal: Test plan for a Round-Robin-Test - comparison of noise field simulations for handset mode | HEAD acoustics GmbH, Intel | 9.7 | S4-190447 |
| S4-190418 | Draft Reply LS on Informing PCF/PCRF of End-to-end RAN Assisted Codec Adaptation (ANBR) Support (To: SA2, CT1) | Intel | 11.7 | S4-190490 |
| S4-190419 | CHEM - Suggestions regarding proposed new Annex | Sony Mobile Communications | 11.8 | S4-190506 |
| S4-190420 | CR 26.238-0006 Processing Description Document for FLUS (Release 16) | Samsung Research America | 11.5 | S4-190513 |
| S4-190421 | Workflow Description Document for FLUS | Samsung Research America | 11.5 |  |
| S4-190422 | Collaboration scenario and procedures for edge processing | Samsung Research America | 8.8 |  |
| S4-190423 | Realization of Messaging Use Cases | Samsung Research America | 10.6 |  |
| S4-190424 | Reference Conditions for IVAS Testing | Fraunhofer IIS | 7.5 |  |
| S4-190425 | Draft report from SA4 EVS SWG Teleconference #56 (19th Feb. 2019) and Teleconference #57 (11th March 2019) | EVS SWG Secretary (Orange) | 5.1 |  |
| S4-190426 | Draft skeleton for TS 26.261 Terminal audio quality performance requirements for immersive audio services (ATIAS performance requirements) (Release 17) | ATIAS Co-Rapporteur (Orange) | 9.5 | S4-190543 |
| S4-190427 | Draft time plan for ATIAS | ATIAS Co-Rapporteurs (Orange, Dolby Laboratories, Inc.) | 9.5 | S4-190544 |
| S4-190428 | Draft CR to TS 26.452 Corrections to the Alt\_FX\_EVS source code (Release 16) WITHDRAWN MISSING | Orange | 7.6 |  |
| S4-190429 | CR 26.114-0460 rev 1 Use of default EVS SID update (Release 16) | Orange, Intel | 11.11 | S4-190492 |
| S4-190430 | On IVAS pass-through mode and input-output format combinations | Orange | 7.5 |  |
| S4-190431 | Proposals for IVAS performance requirements | Orange | 7.5 |  |
| S4-190432 | Proposals for CHEM | Orange | 11.8, 15.8 |  |
| S4-190433 | Consistency in H.264 Level 1.2 Requirement | Qualcomm Incorporated | 11.11 | S4-190493 |
| S4-190434 | 360-degree Conferencing Use Case and requirements | Nokia Corporation | 11.9 | S4-190502 |
| S4-190435 | Multiparty AR Streaming with localization registry | Nokia Corporation | 10.6 | S4-190530 |
| S4-190436 | DASH signalling for recommended viewport | Nokia Corporation | 10.4 |  |
| S4-190437 | Nokia MPEG OMAF source code release for 3GPP | Nokia Corporation | 10.7 |  |
| S4-190438 | RTP/RTSP Streaming in PSS | Nokia Corporation | 8.8 |  |
| S4-190439 | Supporting information on CTA-2066 - QoE document | Qualcomm Incorporated | 8.3 |  |
| S4-190440 | Liaison to 3GPP SA4: Latest plans on DASH Client Event and Timed Metadata APIs | DASH-IF | 5.3 |  |
| S4-190441 | Revised meeting schedule for SA4#103 | SA4 Chairman | 2 |  |
| S4-190442 | Time plan for FS\_HaNTE | Editor (Qualcomm Incorporated) | 9.6 | S4-190445 |
| S4-190443 | LS on handset positioning for acoustic measurements (To: ITU-T SG12 Question 5, Cc: GSMA TSGVLR, ETSI TC STQ) | TSG SA WG4 | 9.6, 17.6 |  |
| S4-190444 | Draft TR 26.801 UEs Supporting Handset Mode with Non-Traditional Earpieces, v. 0.0.2 (Release 17) | Rapporteur (Qualcomm Incorporated) | 9.6, 17.6 |  |
| S4-190445 | Time plan for FS\_HaNTE | Editor (Qualcomm Incorporated) | 9.6, 17.6 |  |
| S4-190446 | pCR to TR 26.921 on Additional investigations on noise field simulation | HEAD acoustics GmbH | 9.7 |  |
| S4-190447 | Test plan for a Round-Robin-Test - comparison of noise field simulations for handset mode | HEAD acoustics GmbH, Intel | 9.7, 17.5 |  |
| S4-190448 | Time Plan for FS\_AnTEM v0.2 | Rapporteur (HEAD acoustics GmbH) | 9.7, 17.5 |  |
| S4-190449 | pCR to draft TR 26.801 (FS\_HaNTE) | Sony Mobile Communications, Qualcomm Incorporated, HEAD acoustics GmbH, Samsung Electronics Co., Ltd | 9.6 |  |
| S4-190450 | IVAS-4 Design Constraints v0.0.10 | Editor (Huawei Technologies France) | 7.5, 16.1 |  |
| S4-190451 | Report of MBS SWG at SA4#103 | MBS SWG Chairman | 13.2 |  |
| S4-190452 | pCR to TS 26.501 Procedures for 5G Downlink Media Streaming | Ericsson LM | 8.8 |  |
| S4-190453 | pCR to TS 26.501 Procedures for 5G Uplink Media Streaming | Ericsson LM | 8.8 | S4-190459 |
| S4-190454 | pCR to TS 26.501: Metrics collection and reporting | Ericsson LM | 8.8 | S4-190470 |
| S4-190455 | pCR to TS 26.501 on RAN Signaling based Uplink Assistance in 5GMSA | Qualcomm Incorporated | 8.8 |  |
| S4-190456 | MBMS Services for MCData overview | Ericsson LM, Enensys | 8.7 | S4-190458 |
| S4-190457 | Proposed updates to 5GMSA Permanent Document on list of functionalities | Ericsson LM | 8.8, 15.11 |  |
| S4-190458 | MBMS Services for MCData overview v. 2 | Ericsson LM, Enensys | 8.7 |  |
| S4-190459 | Procedures for 5G Uplink Media Streaming | Ericsson LM | 8.8 |  |
| S4-190460 | pCR on Consumption report | Expway | 8.8 | S4-190471 |
| S4-190461 | Draft WID on 5G Media Streaming (5GMS) stage 3 | Ericsson LM, AT&T, KPN N.V., Orange | 8.10, 19 |  |
| S4-190462 | TR 26.925 Typical Traffic Characteristics of Media Services (Release 16) (FS\_TyTraC), v. 0.3.0 | Editor (Ericsson LM) | 8.9, 17.3 |  |
| S4-190463 | Reply on Request of comments on CTA-2066 - QoE document LS (To: CTA) | TSG SA WG4 | 5.3 | S4-190475 |
| S4-190464 | Draft CR to TS 26.348 on Correction of xMB Guidelines | Ericsson LM, Expway | 8.7, 15.1 | S4-190565 |
| S4-190465 | Time Plan for SerInter Work Item | Rapporteur (Qualcomm Incorporated) | 8.6, 15.2 |  |
| S4-190466 | Revised WID for SerInter | Qualcomm Incorporated | 8.6, 15.2 | S4-190564 |
| S4-190467 | CR 26.346-0627 USD Information on MBMS ROM Parameters (Release 15) | Qualcomm Incorporated | 8.5, 14.12 |  |
| S4-190468 | CR 26.347-0007 rev 1 on New API providing the SA File (Release 16) | Expway | 8.7, 15.9 |  |
| S4-190469 | CR 26.346-0628 (Rel-16) USD information on MBMS ROM parameters (Release 16) | Qualcomm Incorporated | 8.5, 14.12 |  |
| S4-190470 | pCR to TS 26.501 on Metrics collection and reporting | Ericsson LM | 8.8 |  |
| S4-190471 | pCR on Consumption report | Expway | 8.8 |  |
| S4-190472 | Work Plan for 5GMSA v0.4 | Rapporteur (Ericsson LM) | 15.11 |  |
| S4-190473 | Reply LS for inclusion of Receive Only Mode MBMS service parameters in USD (To: RAN2) | TSG SA WG4 | 5.2 | S4-190563 |
| S4-190474 | Reply on LS on SDP Exchange for FEC support (To: CT3) | TSG SA WG4 | 5.2 |  |
| S4-190475 | Reply LS on CTA-2066 Document (To: CTA) | TSG SA WG4 | 5.3 |  |
| S4-190476 | Draft TS 26.501 5G Media Streaming (5GMS); General description and architecture v1.1.0 | Editor (Ericsson LM) | 15.11 |  |
| S4-190477 | CR 26.952-0009 rev 1 Addition of the Worst-case complexity numbers to the Characterization Results of the Alternative Fixed-Point Implementation of EVS. Description of the configuration used to assess the complexity (Release 16) | Cadence Design Systems Inc., VoiceAge Corporation | 15.3 |  |
| S4-190478 | Time Plan for CHEM Work Item v0.5.0 | Qualcomm Incorporated (Rapporteur) | 15.8 |  |
| S4-190479 | CR 26.348-0003 rev 1 Support for Multiplexing MCData Sessions on one MBMS Bearer (Release 16) | Ericsson LM, Expway | 15.9 |  |
| S4-190480 | CR 26.114-0475 Clarification for QoE jitter metrics calculation (Release 16) | Ericsson LM | 15.12 |  |
| S4-190481 | Draft MTSI SWG Report from SA4#103 | MTSI SWG Chairman | 13.3 |  |
| S4-190482 | CR 26.114-0468 CVO Corrections (Release 12) | Ericsson LM | 11.4, 14.12 |  |
| S4-190483 | CR 26.114-0469 CVO Corrections (Release 13) | Ericsson LM | 11.4, 14.12 |  |
| S4-190484 | CR 26.114-0470 CVO Corrections (Release 14) | Ericsson LM | 11.4, 14.12 |  |
| S4-190485 | CR 26.114-0471 CVO Corrections (Release 15) | Ericsson LM | 11.4, 14.12 |  |
| S4-190486 | CR 26.114-0472 CVO Corrections (Release 16) | Ericsson LM | 11.4, 14.12 |  |
| S4-190487 | Draft LS on the implementation issues of RAN-assisted codec adaptation and NR aspects of RAN delay budget reporting (To: RAN WG1, RAN WG2, Cc: GSMA 5GJA) | TSG SA WG4 | 11.12, 19 | S4-190556 |
| S4-190488 | Draft CR 26.939 Desired QoS Latency Behavior for FLUS | Qualcomm Incorporated | 11.5 |  |
| S4-190489 | CR 26.114-0461 rev 1 Signaling of ANBR Capabilities (Release 16) | Intel | 11.7, 15.6 |  |
| S4-190490 | Reply LS on Informing PCF/PCRF of End-to-end RAN Assisted Codec Adaptation (ANBR) Support (To: SA2, CT1) | TSG SA WG4 | 11.7, 5.2 |  |
| S4-190491 | Reply LS on 5G MTSI Client Profiles (To: GSMA NG RiLTE, GSMA NG 5GJA) | TSG SA WG4 | 11.7, 5.3 |  |
| S4-190492 | CR 26.114-0460 rev 2 Use of default EVS SID update (Release 16) POSTPONED | Orange, Intel | 11.11, 15.12 |  |
| S4-190493 | Consistency in H.264 Level 1.2 Requirement | Qualcomm Incorporated | 11.11 |  |
| S4-190494 | CR 26.114-0473 Correction to H.264 CBP Level 1.2 Requirement (Release 15) | Qualcomm Incorporated | 11.11 | S4-190519 |
| S4-190495 | CR 26.114-0474 Correction to H.264 CBP Level 1.2 Requirement (Release 16) | Qualcomm Incorporated | 11.11 | S4-190520 |
| S4-190496 | Draft LS on the usage of SDAP in MTSI and re-usability of delay and error profiles (To: RAN WG1, RAN WG2, SA WG2, Cc: GSMA 5GJA) | TSG SA WG4 | 11.12, 19 | S4-190555 |
| S4-190497 | CR 26.114-0462 rev 1 Additional DBI Signaling Recommendations (Release 16) | Intel | 11.6, 15.6 |  |
| S4-190498 | CR 26.114-0463 rev 1 SDP Examples on DBI Signaling (Release 16) | Intel | 11.6, 15.6 |  |
| S4-190499 | LS on Setting DBI Message Interval based on delayBudgetReportingProhibitTimer Configurations (To: RAN2) | TSG SA WG4 | 11.6, 15.6 |  |
| S4-190500 | Work Item Summary for E2E\_DELAY | Intel (Rapporteur) | 11.6, 15.6 |  |
| S4-190501 | ITTRT Use Case and Gap Analysis | Intel | 11.9 |  |
| S4-190502 | 360-degree Conferencing Use Case and requirements | Nokia Corporation | 11.9 |  |
| S4-190503 | ITT4RT Permanent Document - Requirements, Working Assumptions and Potential Solutions (v0.1.1) | Intel, Huawei Technologies Co. Ltd. (ITT4RT Rapporteurs) | 11.9, 16.2 |  |
| S4-190504 | Proposed Timeplan for ITT4RT (v0.1.1) | Intel, Huawei Technologies Co. Ltd. (ITT4RT Rapporteurs) | 11.9 | S4-190518 |
| S4-190505 | CR 26.114-0446 rev 5 Coverage and Handoff Enhancements for Media (CHEM) (Release16) POSTPONED | Qualcomm Incorporated | 11.8, 15.8 |  |
| S4-190506 | CHEM - Suggestions regarding proposed new Annex | Sony Mobile Communications | 11.8 |  |
| S4-190507 | CR 26.238-0003 rev 4 Remote Assist / Control Interface (Release 16) | Ericsson LM | 11.5 | S4-190512 |
| S4-190508 | Aligning FLUS architecture specification for 5G SBA way of specifying interfaces | Ericsson LM | 11.5 |  |
| S4-190509 | pCR to TR 26.985 Proposed Text for Media Consideration (Release 16) | Samsung Electronics Iberia SA | 11.10 |  |
| S4-190510 | TR 26.985 Vehicle-to-everything (V2X); Media handling and interaction (Release 16), v0.8.9 | Rapporteur (Samsung Electronics Co., Ltd) | 11.10, 17.2 | S4-190566 |
| S4-190511 | Draft CR to TR 26.939 on QoS Support in FLUS (Release 16) | Qualcomm Incorporated | 11.5 |  |
| S4-190512 | CR 26.238-0003 rev 5 Remote Assist / Control Interface (Release 16) | Ericsson LM | 11.5 | S4-190558 |
| S4-190513 | CR 26.238-0006 rev 1 Processing Description Document for FLUS (Release 16) | Samsung Research America | 11.5 |  |
| S4-190514 | Draft CR to TR 26.939 on QoS Support in FLUS (Release 16) | Qualcomm Incorporated | 11.5 |  |
| S4-190515 | Permanent Document Updating TR 26.939 per SA4#103 | Qualcomm Incorporated | 11.5 | S4-190517 |
| S4-190516 | Time Plan for E-FLUS Work Item v0.5.0 | Rapporteur (Qualcomm Incorporated) | 15.4 | S4-190559 |
| S4-190517 | CR 26.939-0002 E-FLUS Updates (Release 16) | Qualcomm Incorporated | 15.4 | S4-190557 |
| S4-190518 | Proposed Timeplan for ITT4RT (v0.1.2) | Intel, Huawei Technologies Co. Ltd. (ITT4RT Rapporteurs) | 16.2 |  |
| S4-190519 | CR 26.114-0473 rev 1 Correction to H.264 CBP Level 1.2 Requirement (Release 15) | Qualcomm Incorporated | 14.12 |  |
| S4-190520 | CR 26.114-0474 rev 1 Correction to H.264 CBP Level 1.2 Requirement (Release 16) | Qualcomm Incorporated | 14.12 |  |
| S4-190521 | dCR26.118: Presentation without Pose Information and Flat Rendering | Qualcomm Incorporated | 10.4 |  |
| S4-190522 | LS on VR 2D Rendering without Pose (To: ISO/IECJTC 1/SC 29/ WG11 (MPEG)) | TSG SA WG4 | 14.8 |  |
| S4-190523 | Draft TR 26.929 QoE parameters and metrics relevant to the Virtual Reality user experience v0.8.0 | Editor (Ericsson LM) | 10.5 | S4-190536 |
| S4-190524 | New WID on VR QoE metrics | Ericsson LM, InterDigital Communications, Inc., Huawei Technologies Co. Ltd., Fraunhofer HHI, Deutsche Telekom AG | 10.7 | S4-190539 |
| S4-190525 | Draft WID on VR Streaming Interoperability and Characterization (VR-IOP) | Qualcomm Incorporated, InterDigital Communications, Inc., Fraunhofer HHI, Orange | 19 | S4-190562 |
| S4-190526 | FS\_XR5G permanent document 0.4.0 | Editor (Qualcomm Incorporated) | 17.4 |  |
| S4-190527 | FS\_XR5G: Updates on Architectures | Qualcomm Incorporated | 10.6 |  |
| S4-190528 | Draft TR 26.928 Extended Reality (XR) in 5G (Release 16), v0.4.0 | Editor (Qualcomm Incorporated) | 17.4 |  |
| S4-190529 | LS on Use cases for eXtended Reality (XR) in 5G (To: SA1) | TSG SA WG4 | 17.4 |  |
| S4-190530 | Multiparty AR Streaming with localization registry | Nokia Corporation | 10.6 |  |
| S4-190531 | Clarification and Feasibility of Use Case 10 | Samsung Electronics Co., Ltd | 10.6 |  |
| S4-190532 | Resubmission on UC 15, 16, 17 | Fraunhofer IIS | 10.6 | S4-190535 |
| S4-190533 | Resubmission on UC 8, 9, 20 | Dolby Laboratories, Inc. | 17.4 |  |
| S4-190534 | Updates to use cases #18 and #19 | LG Electronics Inc. | 10.6 |  |
| S4-190535 | Resubmission on UC 15, 16, 17 | Fraunhofer IIS | 10.6 | S4-190538 |
| S4-190536 | Draft TR 26.929 QoE parameters and metrics relevant to the Virtual Reality user experience (Release 16), v0.8.1 | Editor (Ericsson LM) | 17.1 | S4-190561 |
| S4-190537 | FS\_XR5G: Proposed Timeplan | Rapporteur (Qualcomm Incorporated) | 17.4 |  |
| S4-190538 | Resubmission on UC 15, 16, 17 | Fraunhofer IIS | 17.4 | S4-190560 |
| S4-190539 | New WID on VR QoE metrics (VRQoE) | Ericsson LM, InterDigital Communications, Inc., Huawei Technologies Co. Ltd., Fraunhofer HHI, Deutsche Telekom AG, AT&T | 19 |  |
| S4-190540 | Video SWG report | Video SWG Chairman (Orange) | 13.5 |  |
| S4-190541 | IVAS Usage Scenarios (IVAS-9) – Version 0.0.1 | Nokia Corporation (Editor) | 7.5, 16.1 |  |
| S4-190542 | EVS\_FCNBE Timeplan v0.2 | Intel (rapporteur) | 7.7 | S4-190546 |
| S4-190543 | Draft skeleton for TS 26.261 Terminal audio quality performance requirements for immersive audio services (ATIAS performance requirements) (Release 17), v. 0.0.1 | ATIAS Co-Rapporteur (Orange) | 9.5, 16.3 |  |
| S4-190544 | Draft time plan for ATIAS, v. 0.0.1 | ATIAS Co-Rapporteurs (Orange, Dolby Laboratories, Inc.) | 9.5, 16.3 |  |
| S4-190545 | Draft TR 26.921 Investigations on ambient noise reproduction systems for acoustic testing of terminals (Release 16) V0.2.0 | Rapporteur (HEAD acoustics GmbH) | 9.7, 17.5 |  |
| S4-190546 | EVS\_FCNBE Timeplan v0.3 | Intel (rapporteur) | 7.7, 15.10 |  |
| S4-190547 | Availability of HTF example software | Qualcomm Incorporated | 7.5 |  |
| S4-190548 | Summary for work item "Alternative EVS implementation using updated fixed-point basic operators" | VoiceAge Corporation | 15.3 |  |
| S4-190549 | LS/r on VR progress in 3GPP SA4 (3GPP S4-190223) POSTPONED | ITU-T SG16 | 12 |  |
| S4-190550 | LS to request inputs on the Vehicular Multimedia technical report and to invite participation from relevant stakeholders POSTPONED | ITU-T Focus Group on Vehicular Multimedia (FG-VM) | 12 |  |
| S4-190551 | Revised EVS SWG agenda | EVS SWG Chairman | 7 |  |
| S4-190552 | Draft report from SA4#103 EVS SWG meeting | EVS SWG Secretary | 13.1 |  |
| S4-190553 | Draft LS on Round-robin test plan for FS\_AnTEM (To: CTIA) | HEAD acoustics GmbH, Intel | 17.5 | S4-190554 |
| S4-190554 | LS on Round-robin test plan for FS\_AnTEM (To: CTIA) | TSG SA WG4 | 17.5 |  |
| S4-190555 | LS on the usage of SDAP in MTSI and re-usability of delay and error profiles (To: RAN WG1, RAN WG2, SA WG2, Cc: GSMA 5GJA) | TSG SA WG4 | 19 |  |
| S4-190556 | LS on the implementation issues of RAN-assisted codec adaptation and NR aspects of RAN delay budget reporting (To: RAN WG1, RAN WG2, Cc: GSMA 5GJA) | TSG SA WG4 | 19 |  |
| S4-190557 | CR 26.939-0002 rev 1 E-FLUS Updates (Release 16) | Qualcomm Incorporated | 15.4 |  |
| S4-190558 | CR 26.238-0003 rev 6 Remote Assist / Control Interface (Release 16)  MISSING | Ericsson LM | 15.4 |  |
| S4-190559 | Time Plan for E-FLUS Work Item v0.6.0 | Rapporteur (Qualcomm Incorporated) | 15.4 |  |
| S4-190560 | Resubmission on UC 15, 16, 17 | Fraunhofer IIS | 17.4 |  |
| S4-190561 | Draft TR 26.929 QoE parameters and metrics relevant to the Virtual Reality user experience (Release 16), v0.9.0 + submit form | Editor (Ericsson LM) | 17.1 |  |
| S4-190562 | Draft SID on VR Streaming Usage and Implementation Guidelines (FS\_VRGuide) | Qualcomm Incorporated, InterDigital Communications, Inc., Fraunhofer HHI, Orange, AT&T, XiaoMi | 19 |  |
| S4-190563 | Reply LS for inclusion of Receive Only Mode MBMS service parameters in USD (To: RAN2; Cc: TSG SA WG2, TSG RAN WG1) | TSG SA WG4 | 5.2 |  |
| S4-190564 | Revised WID for SerInter | Qualcomm Incorporated | 15.2 |  |
| S4-190565 | CR 26.348-0005 on Correction of xMB Guidelines (Release 16) | Ericsson LM, Expway | 15.1 |  |
| S4-190566 | TR 26.985 Vehicle-to-everything (V2X); Media handling and interaction (Release 16), v0.9.0 | Rapporteur (Samsung Electronics Co., Ltd) | 17.2 |  |
| S4-190567 | Draft Report of SA4#103 meeting, v. 0.0.1 | TSG-S4 Secretary |  |  |
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