 **Third Generation Partnership Project (3GPP™)**

**DRAFT Meeting Report
for
TSG SA WG4**

**Meeting#117-e**

**Online, E-meeting, 14/02/2022 to 23/02/2022**

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## 1 Opening of the e-meeting: Monday 14th February, at 15:00 hours CET

The SA4 Chairman, officially declared the opening of TSG SA WG 117-e electronic meeting on 14th Feb 2022 at 21:00 hrs CET over GoToMeeting (official tool for 3GPP e-meetings). This meeting was converted to an online meeting from the previously decided SA4 Face to Face meeting due to the lingering COVID 19 crisis worldwide.

During this meeting, the following official positions were held as:

TSG SA WG4 Chairman: Mr. Frederic Gabin (Dolby Laboratories Inc, ETSI)

TSG SA WG4 Vice Chairman: Mr. Gilles Teniou (Tencent, CCSA)

TSG SA WG4 Vice Chairman: Ms. Jaeyeon Song (Samsung Electronics, TTA)

TSG SA WG4 Secretary: Ms. Jayeeta Saha (3GPP MCC)

Around 149 delegates representing various 3GPP IMs participated in this meeting and 333 documents were treated during the meeting.

## 2 Approval of the agenda and registration of documents

**S4-220001 Agenda for SA4#117-e**

 *Type: agenda For: Approval
 Source: Dolby Laboratories Inc.*

**Decision:** The document was **approved**.

**S4-220094 Presentation to SA4#117-e opening plenary**

 *Type: other For: Information
 Source: SA4 chair*

**Decision:** The document was **revised to S4-220185**.

**S4-220095 Guidelines for 3GPP SA4#117-e as Electronic Meeting**

 *Type: other For: Information
 Source: SA4 chair*

**Decision:** The document was **noted**.

**S4-220098 Proposed meeting schedule for SA4#117-e**

 *Type: other For: Agreement
 Source: SA4 chair*

**Decision:** The document was **revised to S4-220195**.

**S4-220185 Presentation to SA4#117-e opening plenary**

 *Type: other For: Agreement
 Source: Dolby Laboratories Inc.*

(Replaces S4-220094)

**Decision:** The document was **revised to S4-220197**.

**S4-220197 Presentation to SA4#117-e opening plenary**

 *Type: other For: Agreement
 Source: Dolby Laboratories Inc.*

(Replaces S4-220185)

**Decision:** The document was **noted**.

**S4-220195 Proposed meeting schedule for SA4#117-e**

 *Type: other For: Agreement
 Source: SA4 Chair*

(Replaces S4-220098)

**Decision:** The document was **agreed**.

## 3 IPR and antitrust reminder

## 4 Approval of previous meeting report

**S4-220002 Draft Report of SA4#116-e**

 *Type: report For: Approval
 Source: 3GPP MCC*

**Decision:** The document was **approved**.

## 5 Reports/Liaisons from other groups/meetings

### 5.1 SA4 SWG ad hoc meetings

**S4-220064 Report for MTSI SWG 15 December 2022 Teleconference #26 on ITT4RT**

 *Type: report For: Agreement
 Source: QUALCOMM Europe Inc. - Spain*

**Decision:** The document was **approved**.

**S4-220065 Report for MTSI SWG 2 February 2022 Teleconference #27 on ITT4RT**

 *Type: report For: Agreement
 Source: QUALCOMM Europe Inc. - Spain*

**Decision:** The document was **approved**.

**S4-220088 Report of SA4 MBS SWG AH Telco (3rd February 2022)**

 *Type: report For: Approval
 Source: MBS SWG Chair*

**Decision:** The document was **approved**.

**S4-220089 Report of SA4 MBS SWG AH Telco (13th January 2022)**

 *Type: report For: Approval
 Source: MBS SWG Chair*

**Decision:** The document was **revised to S4-220196**.

**S4-220090 Report of SA4 MBS SWG AH Telco (16th December 2021)**

 *Type: report For: Approval
 Source: MBS SWG Chair*

**Decision:** The document was **approved**.

**S4-220091 Report of SA4 MBS SWG AH Telco (9th December 2021)**

 *Type: report For: Approval
 Source: MBS SWG Chair*

**Decision:** The document was **approved**.

**S4-220092 Report of SA4 MBS SWG AH Telco (2nd December 2021)**

 *Type: report For: Approval
 Source: MBS SWG Chair*

**Decision:** The document was **approved**.

**S4-220093 SA4 Rel-18 Workshop #3 (27th January 2022) - Summary report**

 *Type: report For: Information
 Source: SA4 chair*

**Decision:** The document was **approved**.

**S4-220110 Draft Report on EVS SWG Call#66 on 24 January 2022**

 *Type: report For: (not specified)
 Source: EVS SWG Chairman*

**Decision:** The document was **approved**.

**S4-220154 3GPP SA4 SQ SWG report from teleconference on HaNTE (3 December 2021)**

 *Type: report For: Approval
 Source: SA4 SQ SWG Chair*

**Decision:** The document was **approved**.

**S4-220167 VIDEO SWG telco report 30th November 2021**

 *Type: report For: Agreement
 Source: VIDEO SWG Chair (Tencent)*

**Abstract:**

VIDEO SWG telco report 30th November 2021

**Decision:** The document was **approved**.

**S4-220168 VIDEO SWG telco report 14th December 2021**

 *Type: report For: Agreement
 Source: VIDEO SWG Chair (Tencent)*

**Abstract:**

VIDEO SWG telco report 14th December 2021

**Decision:** The document was **approved**.

**S4-220169 VIDEO SWG telco report 11th January 2022**

 *Type: report For: Agreement
 Source: VIDEO SWG Chair (Tencent)*

**Abstract:**

VIDEO SWG telco report 11th January 2022

**Decision:** The document was **approved**.

**S4-220170 VIDEO SWG telco report 1st February 2022**

 *Type: report For: Agreement
 Source: VIDEO SWG Chair (Tencent)*

**Abstract:**

VIDEO SWG telco report 1st February 2022

**Decision:** The document was **approved**.

**S4-220196 Report of SA4 MBS SWG AH Telco (13th January 2022)**

 *Type: report For: discussion
 Source: MBS SWG Chair*

(Replaces S4-220089)

**Decision:** The document was **approved**.

### 5.2 Other 3GPP groups

**S4-220003 Reply LS on 5MBS preparation of stage 3 work split between SA4 and CT3**

 *Type: LS in For: Discussion
 Original outgoing LS: C4-220307, to -, cc -
 Source: 3GPP CT4*

**Decision:** The document was **postponed**.

**S4-220005 LS on the MBS broadcast service continuity and MBS session identification**

 *Type: LS in For: Discussion
 Original outgoing LS: R2-2108914, to -, cc -
 Source: 3GPP RAN2*

**Decision:** The document was **postponed**.

**S4-220006 LS on RAN visible QoE**

 *Type: LS in For: Discussion
 Original outgoing LS: R2-2111603, to -, cc -
 Source: 3GPP RAN2*

**Decision:** The document was **noted**.

**S4-220007 LS on SA4 requirements for QoE**

 *Type: LS in For: Discussion
 Original outgoing LS: R2-2111665, to RAN2, cc RAN3
 Source: 3GPP RAN2*

**Decision:** The document was **replied to in S4-220118**.

**S4-220008 Reply LS on QoE configuration and reporting related issues**

 *Type: LS in For: Discussion
 Original outgoing LS: R3-214471, to RAN3, cc RAN2, SA4, SA5
 Source: 3GPP RAN3*

**Decision:** The document was **replied to in S4-220117**.

**S4-220009 Reply LS on maximum number of MBS sessions that can be associated to a PDU session**

 *Type: LS in For: Discussion
 Original outgoing LS: S2-2109171, to -, cc -
 Source: 3GPP SA2*

**Decision:** The document was **postponed**.

**S4-220010 Reply LS on QoE report handling at QoE pause**

 *Type: LS in For: Discussion
 Original outgoing LS: S3-214458, to -, cc -
 Source: 3GPP SA3*

**Decision:** The document was **noted**.

**S4-220011 Reply LS on QoE report handling at QoE pause**

 *Type: LS in For: Discussion
 Original outgoing LS: S5-214519, to -, cc -
 Source: 3GPP SA5*

**Discussion:**

Gunnar H. Ericsson: RAN has decided to handle this course of action.

So, the LS could be noted.

**Decision:** The document was **agreed**.

**S4-220012 Reply LS on updating the readme.md file in 3GPP Forge**

 *Type: LS in For: Discussion
 Original outgoing LS: S5-216413, to -, cc -
 Source: 3GPP SA5*

**Decision:** The document was **noted**.

**S4-220013 LS on the mapping between service types and slice at application**

 *Type: LS in For: Discussion
 Original outgoing LS: S5-216414, to -, cc -
 Source: 3GPP SA5*

**Decision:** The document was **noted**.

**S4-220014 LS on QoE configuration and reporting related issues**

 *Type: LS in For: Discussion
 Original outgoing LS: S5-216415, to -, cc -
 Source: 3GPP SA5*

**Decision:** The document was **noted**.

**S4-220015 LS Reply on QoE report handling at QoE pause**

 *Type: LS in For: Discussion
 Original outgoing LS: S5-216417, to -, cc -
 Source: 3GPP SA5*

**Decision:** The document was **noted**.

**S4-220017 LS on Energy Efficiency as guiding principle for new solutions**

 *Type: LS in For: Discussion
 Original outgoing LS: SP-211621, to -, cc -
 Source: 3GPP SA*

**Decision:** The document was **noted**.

**S4-220096 Brief report from SA#94-e on SA4 topics**

 *Type: report For: Information
 Source: SA4 chair*

**Decision:** The document was **noted**.

**S4-220117 draft LS Reply on QoE configuration and reporting related issues**

 *Type: LS out For: Approval
 to RAN3, cc RAN2, SA5
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S4-220309**.

**S4-220309 draft LS Reply on QoE configuration and reporting related issues**

 *Type: LS out For: Approval
 to RAN3, cc RAN2, SA5
 Source: Huawei, HiSilicon*

(Replaces S4-220117)

**Decision:** The document was **approved**.

**S4-220188 Further reply on QoE report handling at QoE pause**

 *Type: LS in For: Discussion
 Original outgoing LS: -, to SA4, cc SA3, SA5
 Source: 3GPP RAN2*

**Decision:** The document was **noted**.

**S4-220189 LS on the specification of AT commands for NR QoE**

 *Type: LS in For: Information
 Original outgoing LS: -, to CT1, cc RAN3, SA4, SA5
 Source: 3GPP RAN2*

**Decision:** The document was **noted**.

**S4-220190 Reply LS on maximum container size for QoE configuration and report**

 *Type: LS in For: Discussion
 Original outgoing LS: R2-2109386/S4-211291, to SA4, cc RAN3, CT1, SA5
 Source: 3GPP RAN2*

**Decision:** The document was **replied to**.

**S4-220191 Reply LS on RAN visible QoE (S4-220008)**

 *Type: LS in For: Discussion
 Original outgoing LS: -, to SA4, RAN3, cc -
 Source: 3GPP RAN2*

**Decision:** The document was **revised to S4-220239**.

**S4-220246 LS to SA2 on FS\_5gMS\_EXT**

 *Type: LS out For: Approval
 to -
 Source: Ericsson LLM*

**Decision:** The document was **revised to S4-220305**.

**S4-220305 LS to SA2 on FS\_5gMS\_EXT**

 *Type: LS out For: Approval
 to -
 Source: Ericsson LLM*

(Replaces S4-220246)

**Decision:** The document was **approved**.

### 5.3 Other groups

**S4-220004 Liaison statement to 3GPP SA4 on MPEG Green Metadata**

 *Type: LS in For: Discussion
 Original outgoing LS: ISO-IECJTC1-SC29\_N20201, to -, cc -
 Source: ISO-IECJTC1-SC29*

**Decision:** The document was **noted**.

**S4-220016 LS on new work item Q.IBN-SA “Signalling architecture of Intent-Based Network for network evolution**

 *Type: LS in For: Discussion
 Original outgoing LS: sp16-sg11-oLS-00231, to -, cc -
 Source: ITU SG-11*

**Decision:** The document was **noted**.

**S4-220101 LS on Content Encdoing In MBMS FLUTE**

 *Type: LS in For: Discussion
 Original outgoing LS: -, to -, cc -
 Source: 3GPP MCC*

**Decision:** The document was **postponed**.

**S4-220102 ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling**

 *Type: LS in For: Discussion
 Original outgoing LS: S4-191216 (HF(22)087009r1), to -, cc -
 Source: 3GPP MCC*

**Decision:** The document was **noted**.

**S4-220183 LS on Subject Audio Background Noise Verification**

 *Type: LS in For: Discussion
 Original outgoing LS: -, to -, cc -
 Source: 3GPP MCC*

**Decision:** The document was **replied in**.

**S4-220184 LS on a new work item for media transport protocols, signalling information of haptic transmission for Immersive Live Experience (ILE) systems**

 *Type: LS in For: Information
 Original outgoing LS: -, to -, cc -
 Source: ITU T SG 16 online meeting*

**Decision:** The document was **noted**.

**S4-220239 Reply LS on RAN visible QoE**

 *Type: LS out For: Discussion
 to SA4, RAN3
 Source: 3GPP RAN2*

(Replaces S4-220191)

**Decision:** The document was **approved**.

**S4-220192 Incoming LS from MPEG on MPEG-I scene description**

 *Type: LS in For: Information
 Original outgoing LS: -, to -, cc -
 Source: MPEG*

**Decision:** The document was **noted**.

**S4-220193 Liaison to 3GPP SA1 on Haptics**

 *Type: LS in For: Information
 Original outgoing LS: -, to -, cc -
 Source: ISO/IEC JTC 1/SC 29/WG 2*

**Decision:** The document was **withdrawn**.

**S4-220194 Liaison statement on VVC CMAF Media Profiles**

 *Type: LS in For: discussion
 Original outgoing LS: -, to -, cc -
 Source: ISO/IEC JTC 1/SC 29/WG 03*

**Decision:** The document was **noted**.

**S4-220321 LS on multiparty Real-time Text (RTT) in conference calling**

 *Type: LS out For: Approval
 to SA1, CT1, CT4, GSMA NG (GSG, UPG, ESTF), ATIS WTSC
 Source: 3GPP SA4*

(Replaces S4-220254)

**Decision:** The document was **approved**.

**S4-220284 LS\_out from BBC**

 *Type: LS out For: Approval
 to -
 Source: BBC*

**Decision:** The document was **revised to S4-220304**.

**S4-220304 LS on 5MBS User Services**

 *Type: LS out For: Approval
 to 3GPP SA2, CT3, CT4, cc SA6
 Source: BBC*

(Replaces S4-220284)

**Decision:** The document was **approved**.

Attachments to this outgoing LS: S4-220235

**S4-220287 Reply LS on Audio Background Noise Verification (To: CTIA Certification Audio Working Group)**

 *Type: LS out For: Approval
 to -
 Source: SQ SWG*

**Decision:** The document was **approved**.

## 6 Issues for immediate consideration

**S4-220097 Rel-16 TSs/TRs to be promoted to Rel-17**

 *Type: discussion For: Agreement
 Source: SA4 chair*

**Abstract:**

Revision 01 of this document was presented.

**Discussion:**

Gilles T, Tenieou: Request to upgrade 26.918 to Rel 17.

**Decision:** The document was **revised to S4-220330**.

**S4-220330 Rel-16 TSs/TRs to be promoted to Rel-17**

 *Type: discussion For: Agreement
 Source: SA4 chair*

(Replaces S4-220097)

**Decision:** The document was **agreed**.

**S4-220174 Aligning IVAS Standardization with Rel-18 Objectives**

 *Type: discussion For: Agreement
 Source: Dolby Laboratories, Inc., Ericsson LM, Fraunhofer IIS, Huawei Technologies Co., Ltd, Nokia Corporation, NTT, Orange, Panasonic Corporation, Philips International B.V., Qualcomm Incorporated, VoiceAge Corporation*

**Decision:** The document was **agreed**.

## 7 Enhanced Voice Service (EVS) SWG

**S4-220109 Draft EVS SWG Agenda**

 *Type: agenda For: (not specified)
 Source: EVS SWG Chairman*

**Decision:** The document was **agreed**.

### 7.1 Opening of the session

### 7.2 Registration of documents

### 7.3 CRs to Features in Release 16 and earlier

### 7.4 Liaisons with other groups/meetings

### 7.5 IVAS\_Codec (EVS Codec Extension for Immersive Voice and Audio Services)

**S4-220111 Draft IVAS Funding Agreement**

 *Type: discussion For: (not specified)
 Source: EVS SWG Chairman, SA4 Secretary*

**Decision:** The document was **noted**.

**S4-220138 IVAS MASA spatial speech quality evaluation using EVS**

 *Type: discussion For: Discussion
 Source: Nokia Corporation*

**Decision:** The document was **noted**.

**S4-220152 Interest in participation in IVAS codec selection and characterisation phase**

 *Type: other For: Information
 Source: HEAD acoustics GmbH*

**Decision:** The document was **noted**.

**S4-220161 Terms of Reference of IVAS Codec Public Collaboration**

 *Type: discussion For: Information
 Source: Dolby Laboratories Inc., Ericsson LM, Fraunhofer IIS, Huawei Technologies Co Ltd., Nokia Corporation, NTT, Orange, Panasonic Corporation, Philips International B.V., Qualcomm Incorporated, VoiceAge Corporation*

**Discussion:**

Discussion on the document:

Xiomi needs to check Page 3 which says - how to determine the no. of parties and additional proponents. How to determine which compnay is additional proponent.

Imre: if a company /additional entity wants to aprticipate, then the company has to sign the funding agreement.

Xiomi: want to know which companies are in this agreement.

Imre: additional proponents means the companies who join later in the process. In that case, ETSI will decrease the amount for each company incase, the no. of participants increases.

Therefore, the second installment of payment decreases.

Xiomi: when can Xiomi join in order to be not late.

Panasonic: When can we get the final text of this document.

Stefan, Dolby: in order to lose no more time, we can consider it as final.

Imre: as this document is carefully checked by ETSI legal, it will be surprising if there are any more errors.

Panasonic: when all the parts highlighted in yellow in completed by the next meeting, then we can formally agree on the same.

The discussion resumed in the EVS SWG regarding the ToR:

Stefan: will highlisht the essential parts of the ToR to enable newcomers join the collaboration.

After the discussion in the EVS 18th Feb session, this document was noted by the SWG.

**Decision:** The document was **noted**.

**S4-220164 IVAS-7a - Audio format and designators**

 *Type: discussion For: Agreement
 Source: Ericsson LM*

**Decision:** The document was **agreed**.

**S4-220165 IVAS-7a - Additional processing tools**

 *Type: discussion For: Agreement
 Source: Ericsson LM*

**Decision:** The document was **agreed**.

**S4-220166 Proposed updates for IVAS-7a**

 *Type: discussion For: Agreement
 Source: Ericsson LM*

**Decision:** The document was **agreed**.

**S4-220175 WMC - Automatic tool to estimate complexity of floating-point code**

 *Type: discussion For: Information
 Source: VoiceAge Corporation*

**Discussion:**

This document describes a complexity tool for floating point code. A tool is designed to run on C which gives the statistical analysis/data about the complexities.

**Decision:** The document was **noted**.

**S4-220181 IVAS Permanent Document IVAS-8a: Test Plan for Selection Phase, v.0.2.1**

 *Type: discussion For: Agreement
 Source: VoiceAge Corporation*

**Abstract:**

Editorial changes

**Decision:** The document was **revised to S4-220301**.

### 7.6 New Work / New Work Items and Study Items

### 7.7 Any Other Business

### 7.8 Close of the session

## 8 Multicast-Broadcast-Streaming (MBS) SWG

### 8.1 Opening of the session

### 8.2 Registration of documents

### 8.3 Reports/Liaisons from other groups/meetings

**S4-220115 Overview of potential impacts of NR QoE on SA4**

 *Type: discussion For: Agreement
 Source: Huawei, HiSilicon, China Unicom*

**Decision:** The document was **noted**.

**S4-220116 draft LS Reply on maximum container size for QoE configuration and report**

 *Type: LS out For: Approval
 to RAN2, cc RAN3, SA5, CT1
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S4-220237**.

**S4-220237 draft LS Reply on maximum container size for QoE configuration and report**

 *Type: LS out For: Approval
 to RAN2, cc RAN3, SA5, CT1
 Source: Huawei, HiSilicon*

(Replaces S4-220116)

**Decision:** The document was **approved**.

**S4-220118 draft LS Reply on SA4 requirements on QoE**

 *Type: LS out For: Approval
 to RAN2, cc RAN3
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S4-220236**.

**S4-220236 draft LS Reply on SA4 requirements on QoE**

 *Type: LS out For: Approval
 to RAN2, cc RAN3
 Source: Huawei, HiSilicon*

(Replaces S4-220118)

**Decision:** The document was **approved**.

### 8.4 Issues for immediate consideration

### 8.5 CRs to features in Release 16 and earlier

**S4-220103 Missing XML Data Type for Attributes in MBMS USD**

 *Type: CR For: Agreement
 26.346 v16.9.1 CR-0658 Cat: F (Rel-16)

 Source: Qualcomm Incorporated*

**Abstract:**

Add indication in the XML schema for Rel-15 MBMS USD that the data type of the subcarrierSpacing and bandwidth attributes of the Frequency element is xs:decimal.

**Decision:** The document was **revised to S4-220299**.

**S4-220119 CR-26.247 Add support of per-slice QoE measurement**

 *Type: CR For: Agreement
 26.247 v16.5.1 CR-0169 Cat: F (Rel-17)

 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S4-220283**.

**S4-220120 CR-26.247 support of RAN Visible QoE**

 *Type: CR For: Agreement
 26.247 v16.5.1 CR-0170 Cat: F (Rel-17)

 Source: Huawei, HiSilicon*

**Decision:** The document was **noted**.

**S4-220121 CR-26.501 suppor of per-slice metrics reporting**

 *Type: CR For: Agreement
 26.501 v17.0.1 CR-0031 Cat: F (Rel-17)

 Source: Huawei, HiSilicon*

**Decision:** The document was **noted**.

**S4-220137 Add support for VR QoE metrics**

 *Type: draftCR For: Agreement
 26.512 v16.4.0
 Source: Ericsson LM*

**Decision:** The document was **revised to S4-220238**.

**S4-220151 [5MSA]: Correction 5GMS Client definition and clarification of reference point usage**

 *Type: draftCR For: Agreement
 26.501 v16.9.0
 Source: Ericsson LM*

**Discussion:**

The revision 2 of this document is considered.

**Decision:** The document was **revised to S4-220306**.

### 8.6 EVEX (5GMS AF Event Exposure)

**S4-220051 [EVEX] Proposed Time Plan**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Incorporated*

**Abstract:**

Outlook at start of SA4#117-e on time/work plan for EVEX WI. Subject to revision during course of meeting.

**Decision:** The document was **revised to S4-220244**.

**S4-220053 [EVEX] Stage 2/3 on Data collection and reporting for 5G Media Streaming**

 *Type: CR For: Agreement
 26.512 v16.4.0 CR-0017 Cat: B (Rel-17)

 Source: Qualcomm Incorporated, BBC*

**Abstract:**

Proposal for Rel-17 TS 26.512 that adds stage 2.5/stage 3 text regarding 5G media streaming instantiation of generic data collection and reporting functionality as specified in TS 26.531 and TS 26.532.

**Decision:** The document was **revised to S4-220231**.

**S4-220058 [EVEX] Data collection and reporting for 5G Media Streaming**

 *Type: draftCR For: Agreement
 26.501 v17.0.1
 Source: BBC, Qualcomm Incorporated*

(Replaces S4aI221303)

**Decision:** The document was **revised to S4-220232**.

**S4-220063 [EVEX] Proposed Editor's Update to TS 26.532**

 *Type: pCR For: Agreement
 26.532 v0.2.0
 Source: Qualcomm Incorporated*

**Abstract:**

Proposed editor's update to TS 26.532 from v0.2.0 to v0.2.1 by implementing pCR in S4aI221305 agreed during SA4 MBS SWG post 116-e meeting on Feb. 3, 2022.

**Decision:** The document was **not treated**.

**S4-220071 [EVEX] TS 26.532: Proposed Editor's Update as V0.2.1**

 *Type: pCR For: Agreement
 26.532 v0.2.0
 Source: Qualcomm Incorporated*

**Abstract:**

Proposed Editor's update of latest version of TS 26.532 from V0.2.0 to V0.2.1 by implementing changes in pCR S4aI221805 agreed during post-#117e MBS SWG telco on 3 Feb, 2022.

**Decision:** The document was **revised to S4-220233**.

**S4-220233 [EVEX] TS 26.532: Proposed Editor's Update as V0.2.1**

 *Type: pCR For: Agreement
 26.532 v0.2.0
 Source: Qualcomm Incorporated*

(Replaces S4-220071)

**Decision:** The document was **agreed**.

**S4-220099 Access restrictions in EVEX - Stage 2**

 *Type: pCR For: (not specified)
 26.531 v1.0.1
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to S4-220240**.

**S4-220240 Access restrictions in EVEX - Stage 2**

 *Type: pCR For: -
 26.531 v1.0.1
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S4-220099)

**Decision:** The document was **agreed**.

**S4-220100 Access restrictions in EVEX - Stage 3**

 *Type: pCR For: (not specified)
 26.532 v0.2.0
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to S4-220241**.

**S4-220241 Access restrictions in EVEX - Stage 3**

 *Type: pCR For: -
 26.532 v0.2.0
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S4-220100)

**Decision:** The document was **agreed**.

**S4-220156 [EVEX] Data Collection, Reporting and Exposure in 5GMS**

 *Type: draftCR For: Agreement
 26.512 v16.4.0
 Source: Qualcomm Incorporated*

**Abstract:**

Additional stage 2 and stage 3 text on instantiation of generic UE data collection, reporting and event exposure for 5G Media Streaming.

**Decision:** The document was **not treated**.

**S4-220159 [EVEX] Additional Stage 2 and Stage 3 Text for TS 26.532**

 *Type: pCR For: Agreement
 26.532 v0.2.0
 Source: Qualcomm Incorporated*

**Abstract:**

Proposed text for missing and incomplete sections in TS 26.532.

**Decision:** The document was **not treated**.

### 8.7 5MBUSA (5G Multicast-Broadcast User Service Architecture and related 5GMS Extensions)

**S4-220018 [5MBUSA] 5GMS via eMBMS - Architecture, Broadcast and Reporting**

 *Type: draftCR For: Agreement
 26.501 v17.0.0
 Source: Qualcomm Incorporated*

**Discussion:**

revision 02 of S4-220018 is revised to S4-220234.

**Decision:** The document was **revised to S4-220234**.

**S4-220234 [5MBUSA] 5GMS via eMBMS - Architecture, Broadcast and Reporting**

 *Type: draftCR For: Agreement
 26.501 v17.0.0
 Source: Qualcomm Incorporated*

(Replaces S4-220018)

**Decision:** The document was **revised to S4-220303**.

**S4-220303 [5MBUSA] 5GMS via eMBMS - Architecture, Broadcast and Reporting**

 *Type: draftCR For: Agreement
 26.501 v17.0.0
 Source: Qualcomm Incorporated*

(Replaces S4-220234)

**Decision:** The document was **revised to S4-220316**.

**S4-220316 [5MBUSA] 5GMS via eMBMS - Architecture, Broadcast and Reporting**

 *Type: draftCR For: Agreement
 26.501 v17.0.0
 Source: Qualcomm Incorporated*

(Replaces S4-220303)

**Decision:** The document was **revised to S4-220329**.

**S4-220329 [5MBUSA] 5GMS via eMBMS - Architecture, Broadcast and Reporting**

 *Type: draftCR For: Agreement
 26.501 v17.0.0
 Source: Qualcomm Incorporated*

(Replaces S4-220316)

**Decision:** The document was **agreed**.

**S4-220019 [5MBUSA] 5GMS via eMBMS - Broadcast on Demand**

 *Type: draftCR For: Agreement
 26.501 v17.0.0
 Source: Qualcomm Incorporated*

**Discussion:**

The version S4-220019r01 has been merged with S4-220234.

**Decision:** The document was **agreed**.

**S4-220020 [5MBUSA] 5GMS via eMBMS - Hybrid Services**

 *Type: draftCR For: Agreement
 26.501 v17.0.0
 Source: Qualcomm Incorporated*

**Discussion:**

Revision 01 of this document has been merged with S4-220234.

**Decision:** The document was **merged**.

**S4-220021 [5MBUSA] Collaboration Model for 5GMS via eMBMS**

 *Type: draftCR For: Agreement
 26.501 v17.0.0
 Source: Qualcomm Incorporated*

**Discussion:**

Revision 01 of this document has been merged with S4-220234.

**Decision:** The document was **merged**.

**S4-220056 [5MBUSA] Static domain model and baseline parameters**

 *Type: pCR For: Agreement
 26.502 v1.0.0
 Source: BBC, Ericsson LM*

(Replaces S4aI221285)

**Discussion:**

Revision 05 of S4-220056 is revised.

**Decision:** The document was **revised to S4-220235**.

**S4-220057 [5MBUSA] MBS Distribution Session life-cycle model**

 *Type: pCR For: Agreement
 26.502 v1.0.0
 Source: BBC*

(Replaces S4aI221286)

**Decision:** The document was **merged**.

**S4-220112 [5MBUSA] Proposed Updates to TS26.502**

 *Type: pCR For: Agreement
 26.502 v1.0.0
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220235**.

**S4-220235 [5MBUSA] Proposed Updates to TS26.502**

 *Type: pCR For: Agreement
 26.502 v1.0.0
 Source: Qualcomm Incorporated*

(Replaces S4-220112)

**Discussion:**

Revision 05 of S4-220056 has been revised to S4-220235.

**Decision:** The document was **agreed**.

**S4-220114 Discussion on the Nmb10 service design**

 *Type: discussion For: Agreement
 26.502 v..
 Source: Huawei, HiSilicon*

**Decision:** The document was **noted**.

**S4-220123 pCR to TS 26.502 support of interworking with LTE MBMS**

 *Type: pCR For: Agreement
 26.502 v1.0.0
 Source: Huawei, HiSilicon*

**Discussion:**

Rev 08 is merged with Doc 235.

**Decision:** The document was **merged**.

**S4-220149 [5MBUSA]: Clause 8: Network Function Services**

 *Type: pCR For: Agreement
 26.502 v1.0.0
 Source: Ericsson LM*

**Discussion:**

Revision 01 is merged with S4-220235.

**Decision:** The document was **merged**.

**S4-220150 [5MBUSA]: Annex B: Nmb8 User Plane ingest examples**

 *Type: pCR For: Agreement
 26.502 v1.0.0
 Source: Ericsson LM*

**Discussion:**

Revision 02 is merged with S4-220235.

**Decision:** The document was **merged**.

### 8.8 5MBP3 (5G Multicast-Broadcast Protocols)

**S4-220023 [5MBP3] Proposed Specification Work**

 *Type: discussion For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**S4-220141 Skeleton TS 26.517 "5G Multicast-Broadcast User Services; Protocols and Formats"**

 *Type: other For: Agreement
 26.517 v..
 Source: BBC (editor)*

**Abstract:**

Initial document skeleton for development during the meeting.

**Decision:** The document was **not concluded**.

### 8.9 5GMS\_EDGE\_3 (Edge Extensions to 5GMS Stage 3)

**S4-220075 Edge Provisioning for Media Services**

 *Type: CR For: (not specified)
 26.512 v16.4.0 CR-0015 Cat: B (Rel-17)

 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to S4-220292**.

**S4-220292 Edge Provisioning for Media Services**

 *Type: CR For: -
 26.512 v16.4.0 CR-0015 rev 1 Cat: B (Rel-17)

 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S4-220075)

**Decision:** The document was **postponed**.

**S4-220076 Edge Configuration for 5G Media Services**

 *Type: CR For: (not specified)
 26.512 v16.4.0 CR-0016 Cat: B (Rel-17)

 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to S4-220293**.

**S4-220293 Edge Configuration for 5G Media Services**

 *Type: CR For: -
 26.512 v16.4.0 CR-0016 rev 1 Cat: B (Rel-17)

 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S4-220076)

**Decision:** The document was **postponed**.

**S4-220077 exception sheet for EDGE\_3**

 *Type: WI exception request For: (not specified)
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to S4-220295**.

**S4-220083 [EDGE] Triggering discussion on triggering edge servers**

 *Type: discussion For: Discussion
 Source: Tencent Cloud*

**Decision:** The document was **revised to S4-220294**.

**S4-220294 [EDGE] Triggering discussion on triggering edge servers**

 *Type: discussion For: Discussion
 Source: Tencent Cloud*

(Replaces S4-220083)

**Decision:** The document was **agreed**.

**S4-220176 Edge-related APIs in M6**

 *Type: discussion For: (not specified)
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **noted**.

**S4-220177 OpenAPI and yaml for Edge APIs**

 *Type: CR For: (not specified)
 26.512 v16.4.0 CR-0018 Cat: B (Rel-17)

 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **postponed**.

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

**S4-220025 [FS\_5GMS-EXT] Key Topic Content Aware Streaming**

 *Type: pCR For: Agreement
 26.804 v1.0.0
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**S4-220026 [FS\_5GMS-EXT] Key Topic Support for encrypted and high-value content**

 *Type: pCR For: Agreement
 26.804 v1.0.0
 Source: Qualcomm Incorporated*

**Decision:** The document was **withdrawn**.

**S4-220027 [FS\_5GMS\_EXT] TV-grade mass distribution of unicast Live Services**

 *Type: pCR For: Agreement
 26.804 v1.0.0
 Source: Qualcomm Incorporated*

**Discussion:**

Revision 01 of this document was considered for discussion on 15th Feb.

Summary of requirements for mass grade TV distribution.

Target for e2e service to be max. of 3 sec

**Decision:** The document was **revised to S4-220245**.

**S4-220245 [FS\_5GMS\_EXT] TV-grade mass distribution of unicast Live Services**

 *Type: pCR For: Agreement
 26.804 v1.0.0
 Source: Qualcomm Incorporated*

(Replaces S4-220027)

**Discussion:**

The revision 01 of S4-220027 has been revised to the current document.

**Decision:** The document was **agreed**.

**S4-220072 [FS\_5GMS\_EXT] Updated Workplan**

 *Type: agenda For: Discussion
 Source: Tencent Cloud*

**Discussion:**

There has been discussion on whether to extend this study further. It was agreed during the meeting to close this study by this meeting and start a new study in Release 18.

This has been the reason of not having a revision of timeplan and therefore this document is noted.

**Decision:** The document was **noted**.

**S4-220078 Proposed conclusion on BDT**

 *Type: pCR For: (not specified)
 26.804 v1.0.0
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to S4-220247**.

**S4-220247 Proposed conclusion on BDT**

 *Type: pCR For: -
 26.804 v1.0.0
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S4-220078)

**Decision:** The document was **agreed**.

**S4-220107 [FS\_5GMS-EXT] Updating existing specifications to allow HTTP/3**

 *Type: pCR For: Agreement
 26.804 v1.0.0
 Source: Tencent*

(Replaces S4aI221296)

**Decision:** The document was **revised to S4-220249**.

**S4-220249 [FS\_5GMS-EXT] Updating existing specifications to allow HTTP/3**

 *Type: pCR For: Agreement
 26.804 v1.0.0
 Source: Tencent*

(Replaces S4-220107)

**Decision:** The document was **agreed**.

**S4-220147 [FS\_5GMS\_EXT]: Corrections and Conclusions for Traffic Identification KI**

 *Type: pCR For: Agreement
 26.804 v1.0.0
 Source: Ericsson LM*

**Discussion:**

The revision 01 of this document was discussed.

There has been discussion between BBC - Richard Bradbury and the proponents regarding the Note in Page 5.

Rogers - Edward O'Leary raised some queries about L4S and its association with the traffic delay. He also enquried about the use of Ipsec, to which Ericsson -Thorsten Lohmar replied that, this hasn’t yet been studied so far.

Following this, there were discussions regarding exception sheet, wherein the Chair suggested the group to not have exception sheet for this study to ensure the topics related to Rel 17 are closed on time.

The revision 03 of this document is agreed

**Decision:** The document was **agreed**.

**S4-220148 [FS\_5GMS\_EXT]: Per App authorization**

 *Type: pCR For: Agreement
 26.804 v1.0.0
 Source: Ericsson LM*

**Discussion:**

The revision 05 of this document is agreed

**Decision:** The document was **agreed**.

**S4-220172 Additional Potential Issues for Network Slicing Extensions**

 *Type: discussion For: Agreement
 26.804 v..
 Source: Samsung Electronics Co. Ltd., Qualcomm Incorporated*

**Abstract:**

The revision 02 of this document is agreed.

**Decision:** The document was **agreed**.

**S4-220173 Use cases for Network Slicing Extensions for 5G Media Streaming**

 *Type: discussion For: Agreement
 26.804 v..
 Source: Samsung Electronics Co., Ltd.*

**Decision:** The document was **noted**.

**S4-220250 conclusions for TR 26.804**

 *Type: discussion For: Agreement
 Source: MBS SWG*

**Decision:** The document was **agreed**.

### 8.11 FS\_NPN4AVProd (Feasibility Study on Media Production over 5G NPN)

**S4-220028 [FS\_NPN4AVProd] Proposed Communication with SA2**

 *Type: LS out For: Agreement
 to SA2
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**S4-220029 [FS\_NPN4AVProd] mmWAVE for Media Production**

 *Type: pCR For: Agreement
 26.805 v1.0.1
 Source: Qualcomm Incorporated*

**Discussion:**

Revision 06 merged with Doc - 279.

**Decision:** The document was **merged**.

**S4-220059 [FS\_NPN4AVProd] Tunnelling RTP media sessions over QUIC**

 *Type: pCR For: Agreement
 26.805 v1.0.1
 Source: BBC*

(Replaces S4aI221304)

**Abstract:**

Revised to update a reference.

**Discussion:**

Revision 06 merged with Doc - 279.

**Decision:** The document was **merged**.

**S4-220136 TR 26.805 v1.0.2**

 *Type: draft TR For: Agreement
 26.805 v1.0.2
 Source: Ericsson GmbH, Eurolab*

**Decision:** The document was **revised to S4-220279**.

**S4-220279 TR 26.805 v1.0.2**

 *Type: draft TR For: Agreement
 26.805 v1.0.2
 Source: Ericsson GmbH, Eurolab*

(Replaces S4-220136)

**Decision:** The document was **agreed**.

**S4-220142 [FS\_NPN4AVProd]: Definition of Collaboration Scenarios**

 *Type: pCR For: Agreement
 26.805 v1.0.1
 Source: Ericsson LM, BBC, EBU*

**Discussion:**

Rev 01 is merged with Doc 279.

**Decision:** The document was **merged**.

**S4-220143 [FS\_NPN4AVProd]: Introduction to Candidate Solutions and updates to KI#2**

 *Type: pCR For: Agreement
 26.805 v1.0.1
 Source: Ericsson LM, BBC, EBU*

**Discussion:**

Rev 02 is merged with Doc 279.

**Decision:** The document was **merged**.

**S4-220144 [FS\_NPN4AVProd]: Summary of 5G MAG Workshops**

 *Type: discussion For: Information
 Source: Ericsson LM, BBC, EBU, 5G-MAG*

**Decision:** The document was **agreed**.

**S4-220145 [FS\_NPN4AVProd]: Updated Time and Work Plan for FS\_NPN4AVProd**

 *Type: Work Plan For: Agreement
 Source: Ericsson LM*

**Decision:** The document was **revised to S4-220280**.

**S4-220146 [FS\_NPN4AVProd]: Exception Sheet**

 *Type: WI exception request For: Agreement
 Source: Ericsson LM*

**Decision:** The document was **revised to S4-220281**.

**S4-220306 [5MSA]: Correction 5GMS Client definition and clarification of reference point usage**

 *Type: CR For: Agreement
 26.501 v16.9.0 CR-16.9.0 rev 0 Cat: F (Rel-16)

 Source: Ericsson LM*

(Replaces S4-220151)

**Decision:** The document was **revised to S4-220314**.

**S4-220314 [5MSA]: Correction 5GMS Client definition and clarification of reference point usage**

 *Type: CR For: Agreement
 26.501 v16.9.0 CR-16.9.0 rev 1 Cat: F (Rel-16)

 Source: Ericsson LM*

(Replaces S4-220306)

**Decision:** The document was **agreed**.

**S4-220307 [5MSA]: Correction 5GMS Client definition and clarification of reference point usage**

 *Type: CR For: Agreement
 26.501 v17.0.1 CR-33 rev 0 Cat: A (Rel-17)

 Source: Ericsson*

**Decision:** The document was **revised to S4-220315**.

**S4-220315 [5MSA]: Correction 5GMS Client definition and clarification of reference point usage**

 *Type: CR For: Agreement
 26.501 v17.0.1 CR-33 rev 1 Cat: A (Rel-17)

 Source: Ericsson*

(Replaces S4-220307)

**Decision:** The document was **agreed**.

### 8.12 FS\_5G\_MSE (Feasibility Study on 5G Media Service Enablers)

**S4-220031 [FS\_5G\_MSE] TR 26.857 v0.0.1**

 *Type: draft TR For: Agreement
 26.857 v0.0.1
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220282**.

**S4-220032 [FS\_5G\_MSE] Some Ideas around MSE**

 *Type: discussion For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

### 8.13 New Work / New Work Items and Study Items

**S4-220033 Proposal for Rel-18 MBS WID scheduling**

 *Type: discussion For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**S4-220070 WID on new 5GMS extensions (NEXT)**

 *Type: discussion For: Discussion
 Source: Tencent Cloud*

**Decision:** The document was **noted**.

**S4-220139 Study on Energy-aware 5G Media Streaming**

 *Type: SID new For: Agreement
 Source: InterDigital Communications*

**Decision:** The document was **noted**.

### 8.14 Others including TEI

**S4-220066 [TEI-17+TRAPI] Extensions to MBMS-URLs for ROM Services**

 *Type: draftCR For: Agreement
 26.347 v16.3.1
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220251**.

**S4-220067 Background on Extensions to MBMS-URLs for ROM Services**

 *Type: discussion For: Information
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**S4-220186 Requirement on UE Behavior regarding QoE Measurement and Reporting**

 *Type: discussion For: (not specified)
 26.247 v..
 Source: Qualcomm Incorporated*

**Abstract:**

DraftCR

**Decision:** The document was **not treated**.

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

### 8.16 Any Other Business

### 8.17 Close of the session

## 9 Speech Quality (SQ) SWG

### 9.1 Opening of the session

### 9.2 Registration of documents

### 9.3 Liaison Statements

### 9.4 CRs to Features in Release 16 and earlier, and other contributions on terminal acoustics

### 9.5 ATIAS (Terminal Audio quality performance and Test methods for Immersive Audio Services)

### 9.6 HaNTE (Handsets Featuring Non-Traditional Earpieces)

**S4-220087 Method for determining ECRP for HaNTE-devices**

 *Type: discussion For: Agreement
 26.132 v..
 Source: HEAD acoustics GmbH*

**Decision:** The document was **revised to S4-220288**.

**S4-220288 Method for determining ECRP for HaNTE-devices**

 *Type: discussion For: Agreement
 26.132 v..
 Source: HEAD acoustics GmbH*

(Replaces S4-220087)

**Decision:** The document was **revised to S4-220289**.

**S4-220157 Requirements for HaNTE**

 *Type: draftCR For: Agreement
 26.131 v17.1.1
 Source: Orange*

(Replaces S4aQ210176)

**Decision:** The document was **agreed**.

**S4-220158 Test methods for HaNTE**

 *Type: draftCR For: Agreement
 26.132 v17.0.0
 Source: Orange*

(Replaces S4aQ210177)

**Decision:** The document was **agreed**.

### 9.7 New Work / New Work Items and Study Items

**S4-220155 New WID on Enhancements to UE Testing**

 *Type: WID new For: Agreement
 Source: Orange, HEAD acoustics GmbH*

**Decision:** The document was **revised to S4-220291**.

### 9.8 Any Other Business

### 9.9 Close of the session

## 10 Video SWG

### 10.1 Opening of the session

### 10.2 Registration of documents

### 10.3 Reports and liaisons from other groups

### 10.4 CRs to features in Release 16 and earlier

### 10.5 8K\_TV\_5G (8K Television over 5G)

**S4-220034 [8K\_TV\_5G] Proposed Updated Work Plan**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220061**.

**S4-220035 [8K\_TV\_5G] 8K HEVC Operation Point**

 *Type: draftCR For: Agreement
 26.116 v16.5.0
 Source: Qualcomm Incorporated, Tencent*

**Decision:** The document was **agreed**.

**S4-220036 [8K\_TV\_5G] CMAF Alignment**

 *Type: draftCR For: Agreement
 26.116 v16.5.0
 Source: Qualcomm Incorporated, Tencent*

**Decision:** The document was **agreed**.

**S4-220037 [8K\_TV\_5G] 8K TV Scenario**

 *Type: draftCR For: Agreement
 26.955 v1.4.0
 Source: Qualcomm Incorporated, Fraunhofer HHI, Interdigital*

**Decision:** The document was **revised to S4-220215**.

**S4-220215 [8K\_TV\_5G] 8K TV Scenario**

 *Type: draftCR For: Agreement
 26.955 v1.4.0
 Source: Qualcomm Incorporated, Fraunhofer HHI, Interdigital*

(Replaces S4-220037)

**Decision:** The document was **agreed**.

**S4-220038 [8K\_TV\_5G] 8K TV Traffic Characteristics**

 *Type: draftCR For: Agreement
 26.925 v17.0.0
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220216**.

**S4-220216 [8K\_TV\_5G] 8K TV Traffic Characteristics**

 *Type: draftCR For: Agreement
 26.925 v17.0.0
 Source: Qualcomm Incorporated*

(Replaces S4-220038)

**Decision:** The document was **agreed**.

**S4-220039 [8K\_TV\_5G] Proposed Exception Sheet**

 *Type: WI exception request For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**S4-220061 [8K\_TV\_5G] Proposed Updated Work Plan**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Incorporated*

(Replaces S4-220034)

**Decision:** The document was **noted**.

**S4-220062 8K TV in 5GMS**

 *Type: draftCR For: Agreement
 26.511 v17.0.0
 Source: Qualcomm Incorporated,Tencent*

**Decision:** The document was **agreed**.

**S4-220276 CR 26.511-0007-rev1 8KTV in 5GMS (Release 17)**

 *Type: CR For: Agreement
 26.511 v16.2.0 CR-0007 rev 1 Cat: B (Rel-17)

 Source: Qualcomm Incorporated, Tencent*

(Replaces S4-220214)

**Decision:** The document was **agreed**.

### 10.6 FS\_VR\_CoGui (Feasibility Study on VR Streaming Conformance and Guidelines)

### 10.7 FS\_5GVideo (Feasibility Study on 5G Video Codec Characteristics)

**S4-220040 Proposed Updated Work Plan for FS\_5GVideo**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220204**.

**S4-220041 TR26.955: Proposed Editor's Update from Telcos**

 *Type: draft TR For: Agreement
 26.955 v1.4.0
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220054**.

**S4-220042 [FS\_5G\_Video] Status after AHG Calls**

 *Type: WI status report For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**S4-220043 [FS\_5G\_Video] Other Updates (Late submission)**

 *Type: pCR For: Agreement
 26.955 v1.4.0
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220207**.

**S4-220207 [FS\_5G\_Video] Other Updates**

 *Type: pCR For: Agreement
 26.955 v1.4.0
 Source: Qualcomm Incorporated*

(Replaces S4-220043)

**Decision:** The document was **revised to S4-220311**.

**S4-220311 [FS\_5G\_Video] Other Updates**

 *Type: pCR For: Agreement
 26.955 v1.4.0
 Source: Qualcomm Incorporated*

(Replaces S4-220207)

**Decision:** The document was **agreed**.

**S4-220044 [FS\_5G\_Video] Characterization Updates**

 *Type: pCR For: Agreement
 26.955 v1.4.0
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**S4-220045 [FS\_5G\_Video] Proposed General Definitions for Coding constraints**

 *Type: pCR For: Agreement
 26.955 v1.4.0
 Source: Qualcomm Incorporated*

**Discussion:**

This document is parked.

**Decision:** The document was **revised to S4-220224**.

**S4-220054 TR26.955: Proposed Editor's Update from Telcos**

 *Type: draft TR For: Agreement
 26.955 v1.4.6
 Source: Qualcomm Incorporated*

(Replaces S4-220041)

**Decision:** The document was **agreed**.

**S4-220104 Update on AV1 Results (late submission)**

 *Type: pCR For: Approval
 26.955 v1.4.6
 Source: Google Inc.*

**Decision:** The document was **noted**.

**S4-220105 [FS\_5GVideo] pCR 26.955: Complete metrics for EVC for scenarios 1-5 and proposed editorial updates to Section 8.3 on EVC**

 *Type: pCR For: Agreement
 26.955 v1.4.6
 Source: Samsung Electronics Co. Ltd., Qualcomm Inc.*

**Decision:** The document was **agreed**.

**S4-220106 [FS\_5GVideo] Verification of the EVC results for Scenario 1 and Scenario 2**

 *Type: other For: Agreement
 26.955 v..
 Source: Samsung Electronics Co. Ltd., Qualcomm Inc.*

**Decision:** The document was **agreed**.

**S4-220171 Updated VTM software version and configuration files**

 *Type: pCR For: Agreement
 26.955 v1.4.6
 Source: Ericsson LM, Fraunhofer HHI, InterDigital, Qualcomm*

**Decision:** The document was **agreed**.

**S4-220178 [FS\_5GVideo] Potential issues with S4 anchors**

 *Type: pCR For: Agreement
 26.955 v1.4.6
 Source: Ericsson LM, InterDigital, Qualcomm Inc.*

**Abstract:**

This contribution highlights potential issues with S4 anchors in TR 26.955.

**Decision:** The document was **noted**.

**S4-220202 [FS\_5GVideo] Verification Reports**

 *Type: discussion For: discussion
 Source: Video SWG*

**Decision:** The document was **noted**.

**S4-220205 FS\_5GVideo: Permanent document on Open Issues, v0.5.0**

 *Type: discussion For: Agreement
 Source: Qualcomm Inc.*

**Decision:** The document was **agreed**.

### 10.8 FS\_XRTraffic (Feasibility Study on Typical Traffic Characteristics for XR Services and other Media)

**S4-220047 [FS\_XRTraffic] Proposed Updated TR26.926**

 *Type: pCR For: Agreement
 26.926 v1.0.0
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

### 10.9 FS\_5GSTAR (Feasibility Study on 5G Glass-type AR/MR Devices)

**S4-220048 [FS\_5GSTAR] Proposes Updates to TR**

 *Type: pCR For: Agreement
 26.998 v1.1.1
 Source: Qualcomm Incorporated*

**Decision:** The document was **not pursued**.

**S4-220049 [FS\_5GSTAR] Proposed Updates to Conclusions**

 *Type: pCR For: Agreement
 26.998 v1.1.1
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220210**.

**S4-220210 [FS\_5GSTAR] Proposed Updates to Conclusions**

 *Type: pCR For: Agreement
 26.998 v1.1.1
 Source: Qualcomm Incorporated*

(Replaces S4-220049)

**Decision:** The document was **agreed**.

**S4-220060 TR26.998: Editor's Updates from Telcos**

 *Type: draft TR For: Agreement
 26.998 v1.1.2
 Source: Samsung Guangzhou Mobile R&D*

**Discussion:**

Thomas Toftgard, Ericsson presented the document

Stéphane Ragot, Orange: support the changes.

There are some ongoing discussions in other SWGs regarding the IVAS codec as mentioned in Section 4.6.1 of the document.

GillesTeniou, Tencent: There is indeed integration of related activities however, the point in the document was not addressed as a part of AR study.

There are different types like 3D graphics on a light weighted devices like AR glasses, so, there is a possibility to continue the study in future.

Thomas Stockhammer, Qualcomm Inc.: even split rendering has been treated in a media agnostic way. Even the architectures are generic and in light of the type of functions,

this TR hasn't ignored audio at any point in time.

StefanBruhn Dolby Lab. Inc: It is not about ignoring but only to state that, audio aspects weren't entirely studied.

Thomas Stockhammer, Qualcomm Inc.: would like the text in the current document to be in the conclusion but not in the introduction.

Thomas Toftgard, Ericsson: Removing text from introduction may confuse the readers.

Stefan Bruhn, Dolby Lab. Inc.:If not placed in the introduction, there is not much coverage for audio aspects then.

Thomas Toftgard, Ericsson: there is nothing about audio in the text, but only in the figures at some places.

Stéphane Ragot, Orange: the text of the first part can be included in the future work.

After some more rounds of discussion, the group agreed to work on the basis of consensus and Tomas Toftgard, Ericsson along with others drafted the pCR for further consideration during Video SWG session on 21st Feb, 2022.

**Decision:** The document was **agreed**.

**S4-220068 [FS\_5GSTAR] Update to clause 6.4.4 cognitive immersive call flow**

 *Type: pCR For: Agreement
 26.998 v1.1.2
 Source: Tencent Cloud*

**Decision:** The document was **revised to S4-220199**.

**S4-220199 [FS\_5GSTAR] Update to clause 6.4.4 cognitive immersive call flow**

 *Type: pCR For: Agreement
 26.998 v1.1.2
 Source: Tencent Cloud*

(Replaces S4-220068)

**Decision:** The document was **agreed**.

**S4-220069 [FS-5GSTAR] Editorial changes to 6.6.1 Shared AR Conversational Services**

 *Type: pCR For: Agreement
 26.998 v1.1.2
 Source: Tencent Cloud*

**Decision:** The document was **revised to S4-220208**.

**S4-220208 [FS-5GSTAR] Editorial changes to 6.6.1 Shared AR Conversational Services**

 *Type: pCR For: Agreement
 26.998 v1.1.2
 Source: Tencent Cloud*

(Replaces S4-220069)

**Decision:** The document was **agreed**.

**S4-220080 Updates to generic call flow**

 *Type: pCR For: (not specified)
 26.998 v1.1.2
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to S4-220203**.

**S4-220203 Updates to generic call flow**

 *Type: pCR For: -
 26.998 v1.1.2
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S4-220080)

**Decision:** The document was **agreed**.

**S4-220125 [FS\_5GSTAR] pCR on clause 8 and 9 of TR 26.998**

 *Type: pCR For: Agreement
 26.998 v1.1.2
 Source: Samsung Guangzhou Mobile R&D*

**Decision:** The document was **revised to S4-220200**.

**S4-220200 [FS\_5GSTAR] pCR on clause 8 and 9 of TR 26.998**

 *Type: pCR For: Agreement
 26.998 v1.1.2
 Source: Samsung Guangzhou Mobile R&D*

(Replaces S4-220125)

**Decision:** The document was **agreed**.

**S4-220128 [FS\_5GSTAR] pCR on clause 6.6 of TR 26.998**

 *Type: pCR For: (not specified)
 26.998 v1.1.2
 Source: Samsung Electronics, Tencent*

(Replaces S4aV220858)

**Decision:** The document was **revised to S4-220209**.

**S4-220209 [FS\_5GSTAR] pCR on clause 6.6 of TR 26.998**

 *Type: pCR For: -
 26.998 v1.1.2
 Source: Samsung Electronics, Tencent*

(Replaces S4-220128)

**Decision:** The document was **agreed**.

**S4-220131 Editorial and session terminology updates**

 *Type: pCR For: (not specified)
 26.998 v1.1.2
 Source: Nokia Corporation*

**Discussion:**

Agreed except Clause 4.3

**Decision:** The document was **conditionally agreed**.

**S4-220134 [FS\_5GSTAR] on Clause 8.5 of TR 26.998 and MeCAR WID**

 *Type: discussion For: (not specified)
 Source: Samsung Electronics Romania*

**Decision:** The document was **noted**.

**S4-220135 [FS\_5GSTAR] pCR on clause 8 of TR 26.998**

 *Type: pCR For: (not specified)
 26.998 v1.1.2
 Source: Samsung Electronics Romania*

**Decision:** The document was **revised to S4-220211**.

**S4-220211 [FS\_5GSTAR] pCR on clause 8 of TR 26.998**

 *Type: pCR For: -
 26.998 v1.1.2
 Source: Samsung Electronics Romania*

(Replaces S4-220135)

**Decision:** The document was **agreed**.

**S4-220140 [FS\_5GSTAR] pCR 26.998 Editorial changes**

 *Type: pCR For: Agreement
 26.998 v1.1.2
 Source: Ericsson LM, Tencent*

**Discussion:**

Merged with S4-220203.

**Decision:** The document was **merged**.

**S4-220201 [5GSTAR] pCR on clause 9 of TR 26.998**

 *Type: pCR For: Discussion
 26.998 v1.1.2
 Source: Samsung Electronics, Co. Ltd., Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**S4-220212 Audio aspects of TR 26.998**

 *Type: pCR For: Agreement
 26.998 v1.1.2
 Source: EVS SWG*

**Discussion:**

Discussion to include the audio aspects in 26.998 during Plenary A of SA4#117-e:

During the previous EVS sessions, Imre Varga, Qualcomm Inc., the EVS SWG Chair has requested to draft a contribution at the last minute regarding FS\_5GSTAR.

In response to the discussion that continued in the EVS SWG, there was a short exchange of views followed by a Note from Video SWG Chair for the SI: FS\_5GSTAR during Bloack A plenary on 17th Feb, 2022:

It was said that, there has been a bit of concern to open a study at this time of the study.

Thomas Stockhamme, Qualcomm r: This is a bit discouraging to come up with a contribution at this point when the study is nearing its closure. TRs can also be corrected by CRs submitted at the right time.

Jaeyon Song, Samsung: I have the same opinion as Qualcomm Inc. The group has almost completed the studies regarding FS\_5GSTAR.

Frederic Gabin, SA4 Chair: If the audio aspects are treated, it is quite hopeful that the work won’t be disrupted at this stage but something constructive could come up.

Milan Jelinek, VoiceAge: this draft for the inclusion of text for the audio part has to be discussed in the EVS SWG.

Thomas Stockhammer, Qualcomm Inc.: Video has lot of other work items which takes times and discussing this draft would be compromising other work in the Rel 17 timeline.

Mary-Luc, Xiomi: Xiaomi has echoed concerns of Qualcomm and Samsung.

Not supporting the opening of the draft document regarding FS\_5GSTAR at this stage.

Markus Multrus, Fraunhofer IIS: In the description on media capabilities, there is a lack of co-ordination between audio and video SWG. The audio aspects need to be in place to make a set-up a functionality.

Gilles Teniou in the capacity of the Video SWG Chair: It has been already 18 to 20 months and no audio related contribution was made, however coming up with a draft text at this stage is a bit worrisome for the progress and timely completion of this SI.

After further deliberation, it was decided that the discussion on the Rev 02 of this document will be done on 21st Feb during the Video SWG.

After a brief presentation of the document during the Video SWG session on 21st Feb, 2022 , the following comments were received.

Thomas Stockhammer, Qualcomm Inc.:it is unfortunate that the group wasn’t able to work cohesively on this report to include all the features on time, as this TR was kept afloat for a long time.

Gilles Teniou, Video SWG Chair: Taking reponsibility for co-ordination and communication and in future, we will be more efficient.

Mary-Luc Champel, Xiaomi: this TR has taken so much time to complete, and aspects could be added in the future.

Tomas Toftgard, Ericsson: many sections in the TR do not include the audio aspects. Many figures have not been described properly in text. In a glance, this document gives an impression that an emphasis on the video aspect other than anything else. So, it is felt that audio aspects should also be addressed properly in order to balance it out.

Stephane Ragot, Orange: this topic can be taken to the SA4 plenary so that, this situation can be avoided in future.

Gilles Teniou, Video Chair: I understand the audio group wants to estimate the device capability in the architecure as included in the TR.

Iraj Sodagar, Tencent: this is about video rendering and the TR is not equally balanced.

It's mostly a language issue that's not depicted properly. Encourage people to emphasize on the language to make it complete and not stall the work.

Stefan Bruhn, Dolby: The audio statements to some extent are misleading in this TR. So, there should be certain degree of precision for the audio and the subsequent text needs to be added. No negative comments to belittle the work.

Hearing to the ongoing discussions, Video SWG Chair requested the group to extend this discussion till the next session.

Discussion during the Video SWG Session on 22nd Feb, 2022:

**Decision:** The document was **agreed**.

**S4-220223 Audio aspects of TR 26.998**

 *Type: pCR For: Agreement
 Source: EVS SWG*

**Decision:** The document was **agreed**.

### 10.10 New Work / New Work Items and Study Items

**S4-220050 Draft Feasibility Study on Smartly Tethering AR Glasses (SmarTAR)**

 *Type: SID new For: Agreement
 Source: Qualcomm Incorporated, Facebook, Dolby Laboratories*

**Decision:** The document was **revised to S4-220219**.

**S4-220079 WID on Split Rendering Media Service Enabler**

 *Type: WID new For: Discussion
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S4WS-22005)

**Decision:** The document was **noted**.

**S4-220084 Draft New Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media**

 *Type: SID new For: Agreement
 Source: Samsung Electronics Co., Ltd., Qualcomm Incorporated, Fraunhofer HHI, InterDigital Communications*

**Abstract:**

Updated version of S4-211567 from SA4#116-e

**Discussion:**

The document was discussed and it was decided that the prioritization has to be done for closure of Rel 17 rather than starting new work items at this stage. However, it depends on the planning and organization of SWG's activities.

The Video SWG Chair decided to keep the document open for discussion till the next session.

**Decision:** The document was **revised to S4-220226**.

**S4-220085 AI/ML work in other 3GPP WGs**

 *Type: discussion For: Discussion
 Source: SAMSUNG R&D INSTITUTE JAPAN*

**Decision:** The document was **noted**.

**S4-220086 Discussion on AI/ML (updated)**

 *Type: discussion For: Discussion
 Source: SAMSUNG R&D INSTITUTE JAPAN*

**Decision:** The document was **noted**.

**S4-220113 New WID on AR and MR QoE Metrics**

 *Type: WID new For: Approval
 Source: China Unicom, Huawei Technologies Co.,Ltd., CATT*

**Decision:** The document was **noted**.

**S4-220124 Draft SID on XR Service Collaboration in the Network Media Layer**

 *Type: SID new For: Agreement
 Source: China Mobile Com. Corporation*

**Decision:** The document was **noted**.

**S4-220126 Draft WID on 5G media delivery architecture extensions for real-time and AR/MR experience**

 *Type: WID new For: Agreement
 Source: Samsung Guangzhou Mobile R&D*

**Discussion:**

The revision 05 of the document is discussed.

Nokia has raised questions regarding the approval of this WID citing the reason that, MTSI WG hasn’t yet looked in the WID yet.

Video SWG Chair said that it is open to objected in the SA4 closing plenary after the decision has been taken.

Qualcomm Inc. and Samsung supported the Video SWG chair.

Orange suggested to transfer this WID without any status to the SA4 plenary which was objected by the Video SWG Chair.

SA4 Chair said it should be the SA4's collective decision to send this WID forward to SA plenary, in case this document is sent out to the closing plenary.

Stephane Ragout, Orange requested more time to check this WID.

Thomas Stockhammer, Qualcomm Inc.: not agreeing due to objection of Orange.

OranStephane Ragout, Orangege: just requesting more time.

Thomas Stockhammer, Qualcomm Inc.: too late for just asking for time; Do you object or not.

Orange: use of objection word is incorrect. It's just a matter of requesting for more time.

In absence of no consensus, this document wasn't agreed in the Video SWG.

**Decision:** The document was **revised to S4-220227**.

**S4-220127 Draft WID on Media Capabilities for Augmented Reality**

 *Type: WID new For: Agreement
 Source: Xiaomi Communications, Qualcomm Incorporated*

**Discussion:**

Orange supports this WID.

VoiceAge doesn ot fully support the removal of IVAS from the objective of this WID.

Dolby Lab. Inc. is of the opinion that, IVAS takes quite a prominent role in this work.

Also, there remains open ends about audio synchronization.

Qualcomm Inc. is of the opinion that 26.998 provides all the necessary information.

**Decision:** The document was **revised to S4-220319**.

### 10.11 Liaisons and Liaison Responses

### 10.12 Any Other Business

### 10.13 Close of the session

## 11 Multimedia Telephony Service for IMS (MTSI) SWG

**S4-220255 Scene Description-based overlay support in ITT4RT**

 *Type: CR For: Agreement
 26.114 v17.3.0 CR-0523 rev 1 Cat: B (Rel-17)

 Source: MTSI SWG*

(Replaces S4-220073)

**Decision:** The document was **revised to S4-220266**.

### 11.1 Opening of the session

### 11.2 Registration of documents

### 11.3 Reports and liaisons from other groups

### 11.4 CRs to Features in Release 16 and earlier

**S4-220122 CR-26.114 Add support of per-slice QoE measurement**

 *Type: CR For: Agreement
 26.114 v17.3.0 CR-0524 Cat: F (Rel-17)

 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S4-220272**.

### 11.5 ITT4RT (Support of Immersive Teleconferencing and Telepresence for Remote Terminals)

**S4-220073 Scene Description-based overlay support in ITT4RT**

 *Type: CR For: (not specified)
 26.114 v17.3.0 CR-0523 Cat: B (Rel-17)

 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to S4-220255**.

**S4-220254 Scene Description-based overlay support in ITT4RT**

 *Type: CR For: -
 26.114 v17.3.0 CR-0523 rev 1 Cat: B (Rel-17)

 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to S4-220321**.

**S4-220074 Guidelines on Scene Description-based overlays**

 *Type: pCR For: (not specified)
 26.962 v0.2.0
 Source: QUALCOMM Europe Inc. - Italy*

**Decision:** The document was **revised to S4-220256**.

**S4-220256 Guidelines on Scene Description-based overlays**

 *Type: pCR For: -
 26.962 v0.2.0
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S4-220074)

**Decision:** The document was **agreed**.

**S4-220133 TR 26.862 V0.0.8**

 *Type: draft TR For: Agreement
 26.862 v0.0.7
 Source: KPN N.V.*

**Decision:** The document was **revised to S4-220257**.

**S4-220153 NBMP in ITT4RT**

 *Type: pCR For: (not specified)
 26.962 v0.2.0
 Source: Nokia Corporation*

**Decision:** The document was **agreed**.

**S4-220162 Changes to TS 26.114 for External source or occlusion-free overlays**

 *Type: discussion For: (not specified)
 Source: Nokia Corporation, Tencent*

**Decision:** The document was **revised to S4-220259**.

**S4-220163 TR 26.962 v. 0.3.0**

 *Type: discussion For: Discussion
 26.962 v0.3.0
 Source: Nokia Corporation*

**Decision:** The document was **agreed**.

**S4-220257 TR 26.862 V0.0.9**

 *Type: other For: Discussion
 Source: KPN N.V.*

**Decision:** The document was **agreed**.

**S4-220258 TR 26.862 V0.1.0**

 *Type: draft TR For: Agreement
 Source: KPN*

**Decision:** The document was **revised to S4-220265**.

**S4-220259 Changes to TS 26.114 for External source or occlusion-free overlays**

 *Type: discussion For: Agreement
 Source: Nokia Corporation, Tencent*

**Decision:** The document was **agreed**.

**S4-220263 CR on ITT4RT Phase 2 Features**

 *Type: CR For: Agreement
 Source: Nokia Corporation, Tencent, KPN N.V., Samsung, Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220270**.

**S4-220264 TR 26.962 v. 0.4.0**

 *Type: draft TR For: discussion
 Source: KPN*

**Decision:** The document was **revised to S4-220269**.

**S4-220265 TR 26.862 V0.2.0**

 *Type: draft TR For: discussion
 Source: KPN*

**Decision:** The document was **revised to S4-220268**.

**S4-220268 TR 26.862 V0.3.0**

 *Type: draft TR For: discussion
 Source: KPN*

(Replaces S4-220265)

**Decision:** The document was **revised to S4-220271**.

**S4-220266 Scene Description-based overlay support in ITT4RT**

 *Type: CR For: Agreement
 26.114 v17.3.0 CR-0523 rev 2 Cat: B (Rel-17)

 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S4-220255)

**Decision:** The document was **agreed**.

**S4-220271 TR 26.862 V0.3.0:Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Use Cases, Requirements and Potential Solutions**

**(Release 17)**

 *Type: draft TR For: Discussion
 Source: KPN N.V*

(Replaces S4-220268)

**Decision:** The document was **revised to S4-220323**.

**S4-220270 CR on ITT4RT Phase 2 features**

 *Type: CR For: Agreement
 26.114 v17.3.0 CR-0526 rev 1 Cat: B (Rel-17)

 Source: Nokia*

(Replaces S4-220263)

**Decision:** The document was **revised to S4-220312**.

### 11.6 Others including TEI

**S4-220082 Splitting TS 26.114 into Multiple Documents**

 *Type: discussion For: Agreement
 26.114 v..
 Source: Facebook*

**Decision:** The document was **revised to S4-220182**.

**S4-220182 Splitting TS 26.114 into Multiple Documents**

 *Type: discussion For: Agreement
 26.114 v..
 Source: Facebook*

(Replaces S4-220082)

**Decision:** The document was **revised to S4-220267**.

**S4-220187 Requirement on UE Behavior regarding QoE Measurement and Reporting**

 *Type: discussion For: (not specified)
 26.114 v..
 Source: Qualcomm Incorporated*

**Abstract:**

DraftCR

**Decision:** The document was **revised to S4-220262**.

**S4-220262 Requirement on UE Behavior regarding QoE Measurement and Reporting**

 *Type: CR For: Agreement
 26.114 v17.3.0 CR-0525 rev 0 Cat: - (Rel-17)

 Source: Qualcomm Incorporated*

(Replaces S4-220187)

**Decision:** The document was **revised to S4-220297**.

**S4-220297 Requirement on UE Behavior regarding QoE Measurement and Reporting**

 *Type: CR For: Agreement
 26.114 v17.3.0 CR-0525 rev 1 Cat: - (Rel-17)

 Source: Qualcomm Incorporated*

(Replaces S4-220262)

**Decision:** The document was **agreed**.

**S4-220267 Splitting TS 26.114 into Multiple Documents**

 *Type: discussion For: discussion
 Source: MTSI SWG*

**Decision:** The document was **noted**.

### 11.7 New Work / New Work Items and Study Items

**S4-220081 Draft New WID on immersive Real-time Communication for WebRTC**

 *Type: WID revised For: Agreement
 Source: Facebook*

(Replaces S4-211623)

**Decision:** The document was **revised to S4-220261**.

**S4-220261 Draft New WID on immersive Real-time Communication for WebRTC**

 *Type: WID new For: Agreement
 Source: Facebook*

(Replaces S4-220081)

**Decision:** The document was **revised to S4-220273**.

**S4-220129 Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC**

 *Type: SID new For: Agreement
 Source: NTT*

**Decision:** The document was **revised to S4-220274**.

**S4-220130 Proposal of “WebRTC with Operator’s Assistance”**

 *Type: discussion For: Discussion
 Source: NTT*

**Decision:** The document was **noted**.

**S4-220132 New WID on IMS-based AR Conversational Services (IBACS)**

 *Type: WID new For: Agreement
 Source: KPN N.V.*

**Decision:** The document was **noted**.

**S4-220179 Draft WID on 5G Real-time Transport**

 *Type: WID new For: Agreement
 Source: QUALCOMM Europe Inc. - Spain*

**Decision:** The document was **revised to S4-220275**.

**S4-220180 Considerations for R18 work in SA4**

 *Type: discussion For: Discussion
 Source: Nokia Corporation*

**Decision:** The document was **noted**.

**S4-220275 Draft WID on 5G Real-time Transport; draft WID**

 *Type: discussion For: discussion
 Source: QUALCOMM Europe Inc. - Spain, AT&T, Nokia, InterDigital, Ericsson, Samsung, Facebook, KPN, Tencent*

**Decision:** The document was **noted**.

### 11.8 Any Other Business

### 11.9 Close of the session

## 12 LSs received during the meeting and Postponed Liaisons (from A. I. 5)

**S4-220228 LS on Support for Configuration and Reporting of RAN Visible QoE Measurements**

 *Type: LS in For: Discussion
 Original outgoing LS: -, to -, cc -
 Source: 3GPP RAN3*

**Decision:** The document was **noted**.

**S4-220229 LS on Support for Configuration and Reporting of RAN Visible QoE Measurements**

 *Type: LS in For: Discussion
 Original outgoing LS: -, to SA4, cc RAN2
 Source: 3GPP RAN3*

**Decision:** The document was **noted**.

**S4-220230 LS on Support for Configuration and Reporting of RAN Visible QoE Measurements**

 *Type: LS in For: discussion
 Original outgoing LS: -, to CT1, cc RAN2, SA4
 Source: 3GPP RAN3*

**Decision:** The document was **noted**.

**S4-220296 LS response to S4-211579: 3GPP SA4 on 5GMS AF Event Exposure for Lawful Disclosure**

 *Type: LS in For: Information
 Original outgoing LS: -, to SA4, cc 3GPP SA3
 Source: ETSI TC LI*

**Abstract:**

ETSI TC LI awaits the presentation of results from the SA4 WI - EVEX will be helpful for TC LI to develop their specification on Lawful Interception.

**Discussion:**

Charles Lo, Qualcomm Inc. was of the opinion that because the group is deferring the WIs, then is it required to provide a quick response on EVEX.

MBS SWG Chair then decided to take it up in the MBS for drafting a LS response.

**Decision:** The document was **noted**.

## 13 Reports and general issues from sub-working-groups

### 13.1 EVS SWG

**S4-220324 EVS Chair's Report during SA4#117-e**

 *Type: report For: Approval
 Source: EVS Chair*

**Decision:** The document was **approved**.

### 13.2 MBS SWG

**S4-220277 VIDEO SWG report during SA4#117**

 *Type: report For: Approval
 Source: Video SWG Chair*

**Decision:** The document was **approved**.

### 13.3 MTSI SWG

**S4-220318 MTSI SWG Report during SA4#117-e**

 *Type: report For: Approval
 Source: MTSI SWG Chair*

**Discussion:**

The MTSI SWG is renamed as Real Time Communications (RTC) Group from now on. Nikolai Leung, Qualcomm to remain the RTC WG Chair.

**Decision:** The document was **approved**.

### 13.4 SQ SWG

**S4-220286 3GPP SA4 SQ SWG report at SA4#117-e**

 *Type: report For: Approval
 Source: SQ SWG Chair*

**Decision:** The document was **approved**.

**S4-220310 MBS SWG Report during SA4#117-e**

 *Type: report For: Approval
 Source: MBS WG Chair*

**Decision:** The document was **approved**.

### 13.5 Video SWG

## 14 CRs to features in Release 16 and earlier

**S4-220055 [5GMS3] Correction to QoE metrics reporting client configuration**

 *Type: CR For: Agreement
 26.512 v16.4.0 CR-0014 Cat: F (Rel-16)

 Source: BBC*

**Decision:** The document was **agreed**.

**S4-220299 Missing XML Data Type for Attributes in MBMS USD**

 *Type: CR For: Agreement
 26.346 v16.9.1 CR-0658 rev 1 Cat: F (Rel-16)

 Source: Qualcomm Incorporated*

(Replaces S4-220103)

**Decision:** The document was **agreed**.

**S4-220283 CR-26.247 Add support of per-slice QoE measurement**

 *Type: CR For: Agreement
 26.247 v16.5.1 CR-0169 rev 1 Cat: F (Rel-17)

 Source: Huawei, HiSilicon*

(Replaces S4-220119)

**Decision:** The document was **agreed**.

**S4-220238 Add support for VR QoE metrics**

 *Type: CR For: Agreement
 26.512 v16.4.0 CR-19 rev 0 Cat: F (Rel-16)

 Source: Ericsson LM*

(Replaces S4-220137)

**Decision:** The document was **agreed**.

## 15 Release 17 Features

### 15.1 ITT4RT (Support of Immersive Teleconferencing and Telepresence for Remote Terminals)

**S4-220260 Work Item Summary for ITT4RT**

 *Type: WI summary For: Endorsement
 Source: Nokia*

**Decision:** The document was **endorsed**.

**S4-220269 TR 26.962 V0.5.0: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Operation and Usage Guidelines**

**(Release 17)**

 *Type: draft TR For: Agreement
 Source: Nokia, KPN*

(Replaces S4-220264)

**Decision:** The document was **revised to S4-220322**.

**S4-220322 TR 26.962 V0.5.0: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Operation and Usage Guidelines**

**(Release 17)**

 *Type: draft TR For: Agreement
 Source: Nokia, KPN*

(Replaces S4-220269)

**Decision:** The document was **agreed**.

**S4-220323 TR 26.862 0.5.0: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Use Cases, Requirements and Potential Solutions**

**(Release 17)**

 *Type: draft TR For: Agreement
 26.862 v0.5.0
 Source: MTSI WG*

(Replaces S4-220271)

**Discussion:**

This document was agreed without presentation in the plenary - B of SA4#117-e.

The version changes were needed to be done by the rapporteur in the cover page.

**Decision:** The document was **agreed**.

### 15.2 HaNTE (Handsets Featuring Non-Traditional Earpieces)

**S4-220289 CR 26132-0106 Method for determining ECRP for HaNTE-devices**

 *Type: CR For: Agreement
 26.132 v16.2.0 CR-0106 rev 0 Cat: B (Rel-17)

 Source: HEAD acoustics GmbH*

(Replaces S4-220288)

**Decision:** The document was **agreed**.

**S4-220290 WI Summary for HaNTE**

 *Type: WI summary For: Endorsement
 Source: Qualcomm, Inc. (Rapporteur)*

**Decision:** The document was **endorsed**.

**S4-220291 New WID on Enhancements to UE Testing**

 *Type: WID new For: Agreement
 Source: SQ SWGOrange, HEAD acoustics GmbH*

(Replaces S4-220155)

**Decision:** The document was **revised to S4-220320**.

**S4-220320 New WID on Enhancements to UE Testing**

 *Type: WID new For: Agreement
 Source: SQ SWGOrange, HEAD acoustics GmbH*

(Replaces S4-220291)

**Decision:** The document was **noted**.

### 15.3 8K\_TV\_5G (8K Television over 5G)

**S4-220213 8K HEVC Operation Point and CMAF Alignment**

 *Type: CR For: Agreement
 26.116 v16.5.0 CR-18 rev 0 Cat: B (Rel-17)

 Source: Qualcomm Inc.*

**Decision:** The document was **agreed**.

**S4-220214 8K TV in 5GMS**

 *Type: CR For: Agreement
 26.511 v16.1.0 CR-7 rev 0 Cat: B (Rel-17)

 Source: Qualcomm Inc.*

**Decision:** The document was **revised to S4-220276**.

**S4-220217 8K TV Traffic Characteristics**

 *Type: CR For: Agreement
 Source: Qualcomm Inc.*

**Decision:** The document was **agreed**.

**S4-220218 8K\_TV\_5G WI summary**

 *Type: WI summary For: Endorsement
 Source: Qualcomm Inc.*

**Decision:** The document was **revised to S4-220222**.

**S4-220325 Proposed Audio SWG Organization**

 *Type: discussion For: discussion
 Source: EVS SWG Chair*

**Abstract:**

The proposal is to rename a new SWG where both EVS and SQ will be merged.

**Discussion:**

Tomas Toftgard, Ericsson: Who will be the Chair or will there be Co-chairs ??

Imre varga, Qualcomm: Certainly working with Stephane as co-chair is a possibility.

Andrew S. Qualcomm Inc: Surprising as a proposal. There were some discussions to be clear on

the aspects. Reasonable to have separate audio tracks. However, there is an increasing scope to what currently EVS SWG is doing.

Three tracks will be helpful in a single SWG.

Chair: The stage 2 is done currently done by MTSI, so adding an systems and architecture belongs to them. The idea is not to have orthogonal work in SWGs.

Qualcomm in general is supportive of this SWG merging.

Chair responded that merging can be possible, only the allocation of work could be looked in later.

Audio and Video shouldn’t be doing Stage 2 at all.

Thomas Stockhammer, Qualcomm Inc.: There is a misunderstanding between system and architecture/rendering. E.g., MeCAr is a service and transport integration of a media into a device. This can that be used by application to shine and do fancy stuff.

XR is also fully integrated multimodel system.

Milan J, VoiceAge: Supports the renaming of audio group and stating. To address MeCar: this is an example where the participation of whole SA4 is necessary.

Chair: There is a system of document allocation is in place - but delegates can speak whenever they sense a deviation.

Andre S., Qualcomm Inc.: If there is only single Audio SWG, then its okay. Doesnot support any fancy/deviation from the same.

Stephane R, Orange: Lets keep it simple and keep it at the highlevel and all the delegates can participate when there are discussions.

May be to have two co-chairs.

Chair: The proposal is to merge EVS and SQ groups to a single Audio SWG with SA4.

The decision is effective from 23rd Feb 2022. However, the working of the SWG wrt to reflector management has to be discussed with MCC.

Co-Chairs for this SWG decided as of today are: Imre Varga, Qualcomm and Stephane Ragout,Orange

**Decision:** The document was **noted**.

### 15.4 EVEX (5GMS AF Event Exposure)

**S4-220244 [EVEX] Proposed Time Plan**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Incorporated*

(Replaces S4-220051)

**Decision:** The document was **agreed**.

**S4-220052 [EVEX] Proposed Exception Sheet**

 *Type: WI exception request For: Agreement
 Source: Qualcomm Incorporated*

**Abstract:**

Request for granting of exception on completion of EVEX Work Item in Release 17.

**Decision:** The document was **agreed**.

**S4-220231 [EVEX] Stage 2/3 on Data collection and reporting for 5G Media Streaming**

 *Type: CR For: Agreement
 26.512 v16.4.0 CR-0017 rev 1 Cat: B (Rel-17)

 Source: Qualcomm Incorporated, BBC*

(Replaces S4-220053)

**Discussion:**

The content of the CR is agreed but the CR is postponed because it is not complete.

**Decision:** The document was **postponed**.

**S4-220232 [EVEX] Data collection and reporting for 5G Media Streaming**

 *Type: draftCR For: Agreement
 26.501 v17.0.1
 Source: BBC, Qualcomm Incorporated*

(Replaces S4-220058)

**Decision:** The document was **agreed**.

**S4-220242 TS 26.532 v0.3.0**

 *Type: draft TS For: Agreement
 26.532 v0.3.0
 Source: Qualcomm, BBC*

**Decision:** The document was **revised to S4-220252**.

**S4-220252 TS 26.532 v0.4.0**

 *Type: draft TS For: Agreement
 26.532 v0.4.0
 Source: Qualcomm, BBC*

(Replaces S4-220242)

**Decision:** The document was **agreed**.

**S4-220243 TS 26.531 v1.1.0**

 *Type: draft TS For: Agreement
 TS 26.531 v1.1.0 v1.1.0
 Source: Qualcomm, BBC*

**Discussion:**

This is agreed as the basis for further work.

**Decision:** The document was **agreed**.

**S4-220253 Presentation of Specification to TSG: draft TR+CoverSheet**

**TS 26.532, Version 1.0.0**

 *Type: draft TR For: Agreement
 Source: Qualcomm Inc, BBC, Ericsson LM*

**Decision:** The document was **agreed**.

### 15.5 5MBUSA (5G Multicast-Broadcast User Service Architecture and related 5GMS Extensions)

**S4-220108 [5MBUSA] Updated Work and Time Plan**

 *Type: Work Plan For: Agreement
 Source: TELUS*

**Decision:** The document was **noted**.

### 15.6 5MBP3 (5G Multicast-Broadcast Protocols)

**S4-220022 [5MBP3] Proposed Time Plan**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**S4-220024 [5MBP3] Proposed Exception Sheet**

 *Type: WI exception request For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**S4-220224 [FS\_5G\_Video] Proposed General Definitions for Coding constraints**

 *Type: pCR For: Agreement
 26.955 v1.4.0
 Source: Qualcomm Incorporated*

(Replaces S4-220045)

**Decision:** The document was **agreed**.

**S4-220222 8K\_TV\_5G WI summary**

 *Type: WI summary For: Endorsement
 Source: Qualcomm Inc.*

(Replaces S4-220218)

**Decision:** The document was **endorsed**.

**S4-220285 TS 26.517 V0.1.0**

 *Type: draft TS For: Agreement
 26.517 v0.1.0
 Source: MBS*

**Discussion:**

This document is sent to SA plenary for presentation

**Decision:** The document was **agreed**.

### 15.7 5GMS\_EDGE\_3 (Edge Extensions to 5GMS Stage 3)

**S4-220295 exception sheet for EDGE\_3**

 *Type: WI exception request For: Agreement
 Source: QUALCOMM Europe Inc. - Italy*

(Replaces S4-220077)

**Abstract:**

Minimal work on M3 API. Work on ACR transfer procedure and even driven EAS relocation.

**Decision:** The document was **agreed**.

**S4-220326 5GMS\_EDGE\_3 time plan v0.1.0**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Inc.*

**Abstract:**

Plan to finish this WI is in SA#97/e. The next meetings are to develop and agree on the CRs.

**Decision:** The document was **revised to S4-220327**.

**S4-220327 5GMS\_EDGE\_3 time plan v0.1.0**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Inc.*

(Replaces S4-220326)

**Decision:** The document was **agreed**.

### 15.8 TEI17 and any other Rel-17 documents

**S4-220272 CR-26.114 Add support of per-slice QoE measurement**

 *Type: CR For: Agreement
 26.114 v17.3.0 CR-0524 rev 1 Cat: F (Rel-17)

 Source: Huawei, HiSilicon*

(Replaces S4-220122)

**Decision:** The document was **agreed**.

**S4-220251 Extensions to MBMS-URLs for ROM Services; WI: TEI17, TRAPI**

 *Type: CR For: Agreement
 26.347 v16.3.1 CR-11 rev 0 Cat: C (Rel-17)

 Source: Qualcomm Inc.*

(Replaces S4-220066)

**Decision:** The document was **revised to S4-220308**.

**S4-220308 Extensions to MBMS-URLs for ROM Services; WI: TEI17, TRAPI**

 *Type: CR For: Agreement
 26.347 v16.3.1 CR-11 rev 1 Cat: C (Rel-17)

 Source: Qualcomm Inc.*

(Replaces S4-220251)

**Decision:** The document was **revised to S4-220317**.

**S4-220317 Extensions to MBMS-URLs for ROM Services; WI: TEI17, TRAPI**

 *Type: CR For: Agreement
 26.347 v16.3.1 CR-11 rev 2 Cat: C (Rel-17)

 Source: Qualcomm Inc.*

(Replaces S4-220308)

**Decision:** The document was **agreed**.

**S4-220312 CR on ITT4RT Phase 2 features**

 *Type: CR For: Agreement
 26.114 v17.3.0 CR-0526 rev 2 Cat: B (Rel-17)

 Source: Nokia Corporation, Tencent, KPN N.V., Samsung, Qualcomm Incorporated*

(Replaces S4-220270)

**Decision:** The document was **agreed**.

## 16 Release 18 Features

### 16.1 ATIAS (Terminal Audio quality performance and Test methods for Immersive Audio Services)

### 16.2 IVAS\_Codec (EVS Codec Extension for Immersive Voice and Audio Services)

**S4-220301 IVAS Permanent Document IVAS-8a: Test Plan for Selection Phase, v.0.3.0**

 *Type: discussion For: Agreement
 Source: VoiceAge Corporation*

(Replaces S4-220181)

**Decision:** The document was **agreed**.

**S4-220300 IVAS-6: Selection Deliverables, Version 0.2.0**

 *Type: discussion For: Agreement
 Source: Dolby Lab Inc. (Editor)*

**Abstract:**

Stefan Bruhn, Dolby presented the document and no comments were received. This document makes way to plenary for agreement.

**Decision:** The document was **agreed**.

**S4-220302 IVAS-7a: Processing plan for selection phase**

 *Type: discussion For: approval
 Source: Ericsson*

**Decision:** The document was **agreed**.

### 16.3 TEI18 and any other Rel-18 documents

## 17 Study Items

### 17.1 FS\_XRTraffic (Feasibility Study on Typical Traffic Characteristics for XR Services and other Media)

**S4-220220 Draft TR 26.926 v1.1.0**

 *Type: draft TR For: Agreement
 26.926 v1.1.0
 Source: Video SWG*

**Decision:** The document was **agreed**.

**S4-220221 FS\_XRTraffic workplan**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Inc.*

**Abstract:**

Plan to extend it the next SA meeting. List of the adhoc conference calls is given in the document.

**Decision:** The document was **agreed**.

### 17.2 FS\_VR\_CoGui (Feasibility Study on VR Streaming Conformance and Guidelines)

**S4-220160 TR 26.999 v.0.7.0**

 *Type: discussion For: Discussion
 26.999 v0.7.0
 Source: Nokia Corporation*

**Decision:** The document was **agreed**.

### 17.3 FS\_5GVideo (Feasibility Study on 5G Video Codec Characteristics)

**S4-220204 Proposed Updated Work Plan for FS\_5GVideo**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Incorporated*

(Replaces S4-220040)

**Decision:** The document was **agreed**.

**S4-220046 [FS\_5G\_Video] Proposed Exception Sheet**

 *Type: WI exception request For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S4-220298**.

**S4-220298 [FS\_5G\_Video] Proposed Exception Sheet**

 *Type: WI exception request For: Agreement
 Source: Qualcomm Incorporated*

(Replaces S4-220046)

**Decision:** The document was **agreed**.

**S4-220206 Draft TR 26.955 v1.5.0**

 *Type: draft TR For: Agreement
 Source: Qualcomm Inc.*

**Decision:** The document was **agreed**.

### 17.4 FS\_5GSTAR (Feasibility Study on 5G Glass-type AR/MR Devices)

**S4-220198 Draft TR 26.998 v1.2.0**

 *Type: draft TR For: Agreement
 26.998 v1.2.0
 Source: Samsung R&D Institute UK (Rapporteur)*

**Discussion:**

Tomas Toftgard, Ericsson: Proposal is to rename Section 8 to potential new Study and/or work areas. This comment was made but was missed up.

Thomas Stockhammer, Qc. Inc.: that was changed in the other section.

**Decision:** The document was **revised to S4-220313**.

**S4-220313 Draft TR 26.998 v1.3.0**

 *Type: draft TR For: Agreement
 26.998 v1.3.0
 Source: Samsung R&D Institute UK (Rapporteur)*

(Replaces S4-220198)

**Decision:** The document was **agreed**.

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

**S4-220248 26.804 v 1.1.0**

 *Type: draft TR For: Agreement
 Source: Ericsson LLM*

**Decision:** The document was **agreed**.

### 17.6 FS\_NPN4AVProd (Feasibility Study on Media Production over 5G NPN)

**S4-220280 [FS\_NPN4AVProd]: Updated Time and Work Plan for FS\_NPN4AVProd**

 *Type: Work Plan For: Agreement
 Source: Ericsson LM*

(Replaces S4-220145)

**Decision:** The document was **agreed**.

**S4-220281 [FS\_NPN4AVProd]: Exception Sheet**

 *Type: WI exception request For: Agreement
 Source: Ericsson LM*

(Replaces S4-220146)

**Decision:** The document was **agreed**.

**S4-220278 LS to SA2 on NPN4AVPROD**

 *Type: LS out For: Approval
 to -
 Source: Ericsson LM*

**Decision:** The document was **revised to S4-220328**.

**S4-220328 LS to SA2 on NPN4AVPROD**

 *Type: LS out For: Approval
 to -
 Source: Ericsson LM*

(Replaces S4-220278)

**Decision:** The document was **approved**.

### 17.7 FS\_5G\_MSE (Feasibility Study on 5G Media Service Enablers)

**S4-220030 [FS\_5G\_MSE] Proposed Time Plan**

 *Type: Work Plan For: Agreement
 Source: Qualcomm Incorporated*

**Decision:** The document was **agreed**.

**S4-220282 [FS\_5G\_MSE] TR 26.857 v0.1.0**

 *Type: draft TR For: Agreement
 26.857 v0.1.0
 Source: Qualcomm Incorporated*

(Replaces S4-220031)

**Abstract:**

This document is agreed as the basis of further work.

**Discussion:**

Naotaka: Just agreed at the last meeting - when there is something enabler in Rel 18, people should join this discussion with other SWGs.

**Decision:** The document was **agreed**.

## 18 Work Items and Study Items under the responsibility of other TSGs/WGs impacting SA4 work

## 19 New Work / New Work Items and Study Items

**S4-220219 Draft Feasibility Study on Smartly Tethering AR Glasses (SmarTAR)**

 *Type: SID new For: Agreement
 Source: Qualcomm Incorporated, Facebook, Dolby Laboratories*

(Replaces S4-220050)

**Decision:** The document was **revised to S4-220225**.

**S4-220273 New WID on immersive Real-time Communication for WebRTC**

 *Type: WID new For: Agreement
 Source: Facebook*

(Replaces S4-220261)

**Discussion:**

Thomas Stockhammer, Qualcomm Inc.: because it says enablers, Does it follow MSE principles?

Jyunghun, Facebook: This WID takes into account the generic framework.

Gilles Teniou, Tencent: it is covered in the MBS SWG.

Kyunghun, Facebook: the split rendering is not in the scope but webRTC will come into picture.

In case the first objective is checked, it contains APIs there.

However, webRTC is also included.

Nikolai Leung, Qualcomm: not trying to offer a service but an enabler to include webRTC.

Some WIs are mentioned that are not agreed in SA4 so far, so may be a revision is needed at a later stage.

**Decision:** The document was **agreed**.

**S4-220227 Draft WID on 5G media delivery architecture extensions for real-time and AR/MR experience**

 *Type: WID new For: Agreement
 Source: Samsung Electronics, Co., Ltd, Ericsson LM, Facebook, AT&T, Qualcomm Incorporated, Beijing Xiaomi Mobile Software, Nokia Corporation, InterDigital Communications, MediaTek, Tencent, China Mobile Com.*

(Replaces S4-220126)

**Discussion:**

Is this a new Stage 2 work ?

Nikolai L, Qualcomm Inc: could also bring it in RTC/MTSI SWG for any other comment.

This is postponed and to be discussed informally in the adhoc telco of RTC SWG in Mar 2022.

**Decision:** The document was **postponed**.

**S4-220319 Draft WID on Media Capabilities for Augmented Reality (MeCAR)**

 *Type: WID new For: Agreement
 Source: Xiaomi Communications, Qualcomm Incorporated*

(Replaces S4-220127)

**Discussion:**

The objectives are organized to have multiple device categories.

Tomas T, Ericsson: but the additional device categories may be designed as lower priority than the other AR devices.

Xiomi: This shouldn’t be a problem - if it's defined on time.

**Decision:** The document was **revised to S4-220332**.

**S4-220332 Draft WID on Media Capabilities for Augmented Reality (MeCAR)**

 *Type: WID new For: Agreement
 Source: Xiaomi Communications, Qualcomm Incorporated*

(Replaces S4-220319)

**Decision:** The document was **agreed**.

**S4-220225 Draft Feasibility Study on Smartly Tethering AR Glasses (SmarTAR)**

 *Type: SID new For: discussion
 Source: Qualcomm Incorporated; Facebook; Dolby Laboratories Inc.; Xiaomi; Samsung Electronics Co.; Ltd, Tencent; Huawei Technologies Co., Ltd.*

(Replaces S4-220219)

**Decision:** The document was **revised to S4-220333**.

**S4-220333 Draft Feasibility Study on Smartly Tethering AR Glasses (SmarTAR)**

 *Type: SID new For: discussion
 Source: Qualcomm Incorporated; Facebook; Dolby Laboratories Inc.; Xiaomi; Samsung Electronics Co.; Ltd, Tencent; Huawei Technologies Co., Ltd.*

(Replaces S4-220225)

**Decision:** The document was **agreed**.

**S4-220226 New Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media**

 *Type: SID new For: Agreement
 Source: Samsung Electronics Co. Ltd., Tencent, Qualcomm Incorporated, Fraunhofer HHI, InterDigital Communications, Dolby Laboratories Inc., AT&T, Orange, Nokia Corporation*

**Decision:** The document was **agreed**.

**S4-220274 Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC**

 *Type: SID new For: discussion
 Source: MTSI SWG*

**Discussion:**

This is another associated study for webRTC framework on C plane signalling details providing wider coverage.

The objective is to have inter working with other 3GPP groups and external world.

Expected output: Dec, 2022 is pretty ambitious - so, proposal is to shift another 6 months to June 2023.

To add AT&T as a supporting company

Gilles T., Tencent: Is the enhancement work appropriate when there is no immerive communicative network as of now.

Thomas S, Qualcomm: Some of the WI titles are not clearly mentioned in terms of their definition and scope.

SA4 Chair: given that, the timeline is till June 2023, could we wait for list of relatable items before the Study is initiated. Should the group decide to postpone as the WI description is not fully correct.

Nikolai L, Qualcomm Inc: Making an update of the typos and further updating the dependencies, and if the proponents are willing to wait furhter - don’t further a strong precedence.

Naotaka, NTT: Let's try to fix it in this meeting and later, enhancements can be brought it in the next meeting.

**Decision:** The document was **revised to S4-220331**.

**S4-220331 New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC**

 *Type: SID new For: discussion
 Source: MTSI SWG*

(Replaces S4-220274)

**Discussion:**

Agreed as the basis for further work.

**Decision:** The document was **agreed**.

## 20 Postponed issues

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

For the dates of SA4#128/-e and 129/-e meetings were not decided but the other three set of dates for 2024 SA4 meetings were decided in this meeting.

## 22 Any Other Business

## 23 Close of meeting: Wednesday 23rd February at 23:59 hours CET (at the latest)

As there were couple of Release 18 items to be discussed, the meeting was closed 55 mins past the official meeting closure time. However, the members have agreed to this extension of meeting time beyond the official closure time and hence no issue was noted.

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S4-220001 | Agenda for SA4#117-e | Dolby Laboratories Inc. | approved |  |  |
| S4-220002 | Draft Report of SA4#116-e | 3GPP MCC | approved |  |  |
| S4-220003 | Reply LS on 5MBS preparation of stage 3 work split between SA4 and CT3 | 3GPP CT4 | postponed |  |  |
| S4-220004 | Liaison statement to 3GPP SA4 on MPEG Green Metadata | ISO-IECJTC1-SC29 | noted |  |  |
| S4-220005 | LS on the MBS broadcast service continuity and MBS session identification | 3GPP RAN2 | postponed |  |  |
| S4-220006 | LS on RAN visible QoE | 3GPP RAN2 | noted |  |  |
| S4-220007 | LS on SA4 requirements for QoE | 3GPP RAN2 | replied to |  |  |
| S4-220008 | Reply LS on QoE configuration and reporting related issues | 3GPP RAN3 | replied to |  |  |
| S4-220009 | Reply LS on maximum number of MBS sessions that can be associated to a PDU session | 3GPP SA2 | postponed |  |  |
| S4-220010 | Reply LS on QoE report handling at QoE pause | 3GPP SA3 | noted |  |  |
| S4-220011 | Reply LS on QoE report handling at QoE pause | 3GPP SA5 | agreed |  |  |
| S4-220012 | Reply LS on updating the readme.md file in 3GPP Forge | 3GPP SA5 | noted |  |  |
| S4-220013 | LS on the mapping between service types and slice at application | 3GPP SA5 | noted |  |  |
| S4-220014 | LS on QoE configuration and reporting related issues | 3GPP SA5 | noted |  |  |
| S4-220015 | LS Reply on QoE report handling at QoE pause | 3GPP SA5 | noted |  |  |
| S4-220016 | LS on new work item Q.IBN-SA “Signalling architecture of Intent-Based Network for network evolution | ITU SG-11 | noted |  |  |
| S4-220017 | LS on Energy Efficiency as guiding principle for new solutions | 3GPP SA | noted |  |  |
| S4-220018 | [5MBUSA] 5GMS via eMBMS - Architecture, Broadcast and Reporting | Qualcomm Incorporated | revised |  | S4-220234 |
| S4-220019 | [5MBUSA] 5GMS via eMBMS - Broadcast on Demand | Qualcomm Incorporated | agreed |  |  |
| S4-220020 | [5MBUSA] 5GMS via eMBMS - Hybrid Services | Qualcomm Incorporated | merged |  | S4-220234 |
| S4-220021 | [5MBUSA] Collaboration Model for 5GMS via eMBMS | Qualcomm Incorporated | merged |  | S4-220234 |
| S4-220022 | [5MBP3] Proposed Time Plan | Qualcomm Incorporated | agreed |  |  |
| S4-220023 | [5MBP3] Proposed Specification Work | Qualcomm Incorporated | agreed |  |  |
| S4-220024 | [5MBP3] Proposed Exception Sheet | Qualcomm Incorporated | agreed |  |  |
| S4-220025 | [FS\_5GMS-EXT] Key Topic Content Aware Streaming | Qualcomm Incorporated | reserved |  |  |
| S4-220026 | [FS\_5GMS-EXT] Key Topic Support for encrypted and high-value content | Qualcomm Incorporated | withdrawn |  |  |
| S4-220027 | [FS\_5GMS\_EXT] TV-grade mass distribution of unicast Live Services | Qualcomm Incorporated | revised |  | S4-220245 |
| S4-220028 | [FS\_NPN4AVProd] Proposed Communication with SA2 | Qualcomm Incorporated | agreed |  |  |
| S4-220029 | [FS\_NPN4AVProd] mmWAVE for Media Production | Qualcomm Incorporated | merged |  |  |
| S4-220030 | [FS\_5G\_MSE] Proposed Time Plan | Qualcomm Incorporated | agreed |  |  |
| S4-220031 | [FS\_5G\_MSE] TR 26.857 v0.0.1 | Qualcomm Incorporated | revised |  | S4-220282 |
| S4-220032 | [FS\_5G\_MSE] Some Ideas around MSE | Qualcomm Incorporated | agreed |  |  |
| S4-220033 | Proposal for Rel-18 MBS WID scheduling | Qualcomm Incorporated | agreed |  |  |
| S4-220034 | [8K\_TV\_5G] Proposed Updated Work Plan | Qualcomm Incorporated | revised |  | S4-220061 |
| S4-220035 | [8K\_TV\_5G] 8K HEVC Operation Point | Qualcomm Incorporated, Tencent | agreed |  |  |
| S4-220036 | [8K\_TV\_5G] CMAF Alignment | Qualcomm Incorporated, Tencent | agreed |  |  |
| S4-220037 | [8K\_TV\_5G] 8K TV Scenario | Qualcomm Incorporated, Fraunhofer HHI, Interdigital | revised |  | S4-220215 |
| S4-220038 | [8K\_TV\_5G] 8K TV Traffic Characteristics | Qualcomm Incorporated | revised |  | S4-220216 |
| S4-220039 | [8K\_TV\_5G] Proposed Exception Sheet | Qualcomm Incorporated | noted |  |  |
| S4-220040 | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | revised |  | S4-220204 |
| S4-220041 | TR26.955: Proposed Editor's Update from Telcos | Qualcomm Incorporated | revised |  | S4-220054 |
| S4-220042 | [FS\_5G\_Video] Status after AHG Calls | Qualcomm Incorporated | agreed |  |  |
| S4-220043 | [FS\_5G\_Video] Other Updates (Late submission) | Qualcomm Incorporated | revised |  | S4-220207 |
| S4-220044 | [FS\_5G\_Video] Characterization Updates | Qualcomm Incorporated | agreed |  |  |
| S4-220045 | [FS\_5G\_Video] Proposed General Definitions for Coding constraints | Qualcomm Incorporated | revised |  | S4-220224 |
| S4-220046 | [FS\_5G\_Video] Proposed Exception Sheet | Qualcomm Incorporated | revised |  | S4-220298 |
| S4-220047 | [FS\_XRTraffic] Proposed Updated TR26.926 | Qualcomm Incorporated | agreed |  |  |
| S4-220048 | [FS\_5GSTAR] Proposes Updates to TR | Qualcomm Incorporated | not pursued |  |  |
| S4-220049 | [FS\_5GSTAR] Proposed Updates to Conclusions | Qualcomm Incorporated | revised |  | S4-220210 |
| S4-220050 | Draft Feasibility Study on Smartly Tethering AR Glasses (SmarTAR) | Qualcomm Incorporated, Facebook, Dolby Laboratories | revised |  | S4-220219 |
| S4-220051 | [EVEX] Proposed Time Plan | Qualcomm Incorporated | revised |  | S4-220244 |
| S4-220052 | [EVEX] Proposed Exception Sheet | Qualcomm Incorporated | agreed |  |  |
| S4-220053 | [EVEX] Stage 2/3 on Data collection and reporting for 5G Media Streaming | Qualcomm Incorporated, BBC | revised |  | S4-220231 |
| S4-220054 | TR26.955: Proposed Editor's Update from Telcos | Qualcomm Incorporated | agreed | S4-220041 |  |
| S4-220055 | [5GMS3] Correction to QoE metrics reporting client configuration | BBC | agreed |  |  |
| S4-220056 | [5MBUSA] Static domain model and baseline parameters | BBC, Ericsson LM | revised | S4aI221285 | S4-220235 |
| S4-220057 | [5MBUSA] MBS Distribution Session life-cycle model | BBC | merged | S4aI221286 | S4-220235 |
| S4-220058 | [EVEX] Data collection and reporting for 5G Media Streaming | BBC, Qualcomm Incorporated | revised | S4aI221303 | S4-220232 |
| S4-220059 | [FS\_NPN4AVProd] Tunnelling RTP media sessions over QUIC | BBC | merged | S4aI221304 |  |
| S4-220060 | TR26.998: Editor's Updates from Telcos | Samsung Guangzhou Mobile R&D | agreed |  |  |
| S4-220061 | [8K\_TV\_5G] Proposed Updated Work Plan | Qualcomm Incorporated | noted | S4-220034 |  |
| S4-220062 | 8K TV in 5GMS | Qualcomm Incorporated,Tencent | agreed |  |  |
| S4-220063 | [EVEX] Proposed Editor's Update to TS 26.532 | Qualcomm Incorporated | not treated |  |  |
| S4-220064 | Report for MTSI SWG 15 December 2022 Teleconference #26 on ITT4RT | QUALCOMM Europe Inc. - Spain | approved |  |  |
| S4-220065 | Report for MTSI SWG 2 February 2022 Teleconference #27 on ITT4RT | QUALCOMM Europe Inc. - Spain | approved |  |  |
| S4-220066 | [TEI-17+TRAPI] Extensions to MBMS-URLs for ROM Services | Qualcomm Incorporated | revised |  | S4-220251 |
| S4-220067 | Background on Extensions to MBMS-URLs for ROM Services | Qualcomm Incorporated | agreed |  |  |
| S4-220068 | [FS\_5GSTAR] Update to clause 6.4.4 cognitive immersive call flow | Tencent Cloud | revised |  | S4-220199 |
| S4-220069 | [FS-5GSTAR] Editorial changes to 6.6.1 Shared AR Conversational Services | Tencent Cloud | revised |  | S4-220208 |
| S4-220070 | WID on new 5GMS extensions (NEXT) | Tencent Cloud | noted |  |  |
| S4-220071 | [EVEX] TS 26.532: Proposed Editor's Update as V0.2.1 | Qualcomm Incorporated | revised |  | S4-220233 |
| S4-220072 | [FS\_5GMS\_EXT] Updated Workplan | Tencent Cloud | noted |  |  |
| S4-220073 | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | revised |  | S4-220255 |
| S4-220074 | Guidelines on Scene Description-based overlays | QUALCOMM Europe Inc. - Italy | revised |  | S4-220256 |
| S4-220075 | Edge Provisioning for Media Services | QUALCOMM Europe Inc. - Italy | revised |  | S4-220292 |
| S4-220076 | Edge Configuration for 5G Media Services | QUALCOMM Europe Inc. - Italy | revised |  | S4-220293 |
| S4-220077 | exception sheet for EDGE\_3 | QUALCOMM Europe Inc. - Italy | revised |  | S4-220295 |
| S4-220078 | Proposed conclusion on BDT | QUALCOMM Europe Inc. - Italy | revised |  | S4-220247 |
| S4-220079 | WID on Split Rendering Media Service Enabler | QUALCOMM Europe Inc. - Italy | noted | S4WS-22005 |  |
| S4-220080 | Updates to generic call flow | QUALCOMM Europe Inc. - Italy | revised |  | S4-220203 |
| S4-220081 | Draft New WID on immersive Real-time Communication for WebRTC | Facebook | revised | S4-211623 | S4-220261 |
| S4-220082 | Splitting TS 26.114 into Multiple Documents | Facebook | revised |  | S4-220182 |
| S4-220083 | [EDGE] Triggering discussion on triggering edge servers | Tencent Cloud | revised |  | S4-220294 |
| S4-220084 | Draft New Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media | Samsung Electronics Co., Ltd., Qualcomm Incorporated, Fraunhofer HHI, InterDigital Communications | revised |  | S4-220226 |
| S4-220085 | AI/ML work in other 3GPP WGs | SAMSUNG R&D INSTITUTE JAPAN | noted |  |  |
| S4-220086 | Discussion on AI/ML (updated) | SAMSUNG R&D INSTITUTE JAPAN | noted |  |  |
| S4-220087 | Method for determining ECRP for HaNTE-devices | HEAD acoustics GmbH | revised |  | S4-220288 |
| S4-220088 | Report of SA4 MBS SWG AH Telco (3rd February 2022) | MBS SWG Chair | approved |  |  |
| S4-220089 | Report of SA4 MBS SWG AH Telco (13th January 2022) | MBS SWG Chair | revised |  | S4-220196 |
| S4-220090 | Report of SA4 MBS SWG AH Telco (16th December 2021) | MBS SWG Chair | approved |  |  |
| S4-220091 | Report of SA4 MBS SWG AH Telco (9th December 2021) | MBS SWG Chair | approved |  |  |
| S4-220092 | Report of SA4 MBS SWG AH Telco (2nd December 2021) | MBS SWG Chair | approved |  |  |
| S4-220093 | SA4 Rel-18 Workshop #3 (27th January 2022) - Summary report | SA4 chair | approved |  |  |
| S4-220094 | Presentation to SA4#117-e opening plenary | SA4 chair | revised |  | S4-220185 |
| S4-220095 | Guidelines for 3GPP SA4#117-e as Electronic Meeting | SA4 chair | noted |  |  |
| S4-220096 | Brief report from SA#94-e on SA4 topics | SA4 chair | noted |  |  |
| S4-220097 | Rel-16 TSs/TRs to be promoted to Rel-17 | SA4 chair | revised |  | S4-220330 |
| S4-220098 | Proposed meeting schedule for SA4#117-e | SA4 chair | revised |  | S4-220195 |
| S4-220099 | Access restrictions in EVEX - Stage 2 | QUALCOMM Europe Inc. - Italy | revised |  | S4-220240 |
| S4-220100 | Access restrictions in EVEX - Stage 3 | QUALCOMM Europe Inc. - Italy | revised |  | S4-220241 |
| S4-220101 | LS on Content Encdoing In MBMS FLUTE | 3GPP MCC | postponed |  |  |
| S4-220102 | ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling  | 3GPP MCC | noted |  |  |
| S4-220103 | Missing XML Data Type for Attributes in MBMS USD | Qualcomm Incorporated | revised |  | S4-220299 |
| S4-220104 | Update on AV1 Results (late submission) | Google Inc. | noted |  |  |
| S4-220105 | [FS\_5GVideo] pCR 26.955: Complete metrics for EVC for scenarios 1-5 and proposed editorial updates to Section 8.3 on EVC | Samsung Electronics Co. Ltd., Qualcomm Inc. | agreed |  |  |
| S4-220106 | [FS\_5GVideo] Verification of the EVC results for Scenario 1 and Scenario 2 | Samsung Electronics Co. Ltd., Qualcomm Inc. | agreed |  |  |
| S4-220107 | [FS\_5GMS-EXT] Updating existing specifications to allow HTTP/3 | Tencent | revised | S4aI221296 | S4-220249 |
| S4-220108 | [5MBUSA] Updated Work and Time Plan | TELUS | noted |  |  |
| S4-220109 | Draft EVS SWG Agenda | EVS SWG Chairman | agreed |  |  |
| S4-220110 | Draft Report on EVS SWG Call#66 on 24 January 2022 | EVS SWG Chairman | approved |  |  |
| S4-220111 | Draft IVAS Funding Agreement | EVS SWG Chairman, SA4 Secretary | noted |  |  |
| S4-220112 | [5MBUSA] Proposed Updates to TS26.502 | Qualcomm Incorporated | revised |  | S4-220235 |
| S4-220113 | New WID on AR and MR QoE Metrics | China Unicom, Huawei Technologies Co.,Ltd., CATT | noted |  |  |
| S4-220114 | Discussion on the Nmb10 service design | Huawei, HiSilicon | noted |  |  |
| S4-220115 | Overview of potential impacts of NR QoE on SA4 | Huawei, HiSilicon, China Unicom | noted |  |  |
| S4-220116 | draft LS Reply on maximum container size for QoE configuration and report | Huawei, HiSilicon | revised |  | S4-220237 |
| S4-220117 | draft LS Reply on QoE configuration and reporting related issues | Huawei, HiSilicon | revised |  | S4-220309 |
| S4-220118 | draft LS Reply on SA4 requirements on QoE | Huawei, HiSilicon | revised |  | S4-220236 |
| S4-220119 | CR-26.247 Add support of per-slice QoE measurement | Huawei, HiSilicon | revised |  | S4-220283 |
| S4-220120 | CR-26.247 support of RAN Visible QoE | Huawei, HiSilicon | noted |  |  |
| S4-220121 | CR-26.501 suppor of per-slice metrics reporting | Huawei, HiSilicon | noted |  |  |
| S4-220122 | CR-26.114 Add support of per-slice QoE measurement | Huawei, HiSilicon | revised |  | S4-220272 |
| S4-220123 | pCR to TS 26.502 support of interworking with LTE MBMS | Huawei, HiSilicon | merged |  |  |
| S4-220124 | Draft SID on XR Service Collaboration in the Network Media Layer | China Mobile Com. Corporation | noted |  |  |
| S4-220125 | [FS\_5GSTAR] pCR on clause 8 and 9 of TR 26.998 | Samsung Guangzhou Mobile R&D | revised |  | S4-220200 |
| S4-220126 | Draft WID on 5G media delivery architecture extensions for real-time and AR/MR experience | Samsung Guangzhou Mobile R&D | revised |  | S4-220227 |
| S4-220127 | Draft WID on Media Capabilities for Augmented Reality | Xiaomi Communications, Qualcomm Incorporated | revised |  | S4-220319 |
| S4-220128 | [FS\_5GSTAR] pCR on clause 6.6 of TR 26.998 | Samsung Electronics, Tencent | revised | S4aV220858 | S4-220209 |
| S4-220129 | Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | NTT | revised |  | S4-220274 |
| S4-220130 | Proposal of “WebRTC with Operator’s Assistance” | NTT | noted |  |  |
| S4-220131 | Editorial and session terminology updates | Nokia Corporation | conditionally agreed |  |  |
| S4-220132 | New WID on IMS-based AR Conversational Services (IBACS) | KPN N.V. | noted |  |  |
| S4-220133 | TR 26.862 V0.0.8 | KPN N.V. | revised |  | S4-220257 |
| S4-220134 | [FS\_5GSTAR] on Clause 8.5 of TR 26.998 and MeCAR WID | Samsung Electronics Romania | noted |  |  |
| S4-220135 | [FS\_5GSTAR] pCR on clause 8 of TR 26.998 | Samsung Electronics Romania | revised |  | S4-220211 |
| S4-220136 | TR 26.805 v1.0.2 | Ericsson GmbH, Eurolab | revised |  | S4-220279 |
| S4-220137 | Add support for VR QoE metrics | Ericsson LM | revised |  | S4-220238 |
| S4-220138 | IVAS MASA spatial speech quality evaluation using EVS | Nokia Corporation | noted |  |  |
| S4-220139 | Study on Energy-aware 5G Media Streaming | InterDigital Communications | noted |  |  |
| S4-220140 | [FS\_5GSTAR] pCR 26.998 Editorial changes | Ericsson LM, Tencent | merged |  |  |
| S4-220141 | Skeleton TS 26.517 "5G Multicast-Broadcast User Services; Protocols and Formats" | BBC (editor) | not concluded |  |  |
| S4-220142 | [FS\_NPN4AVProd]: Definition of Collaboration Scenarios | Ericsson LM, BBC, EBU | merged |  |  |
| S4-220143 | [FS\_NPN4AVProd]: Introduction to Candidate Solutions and updates to KI#2 | Ericsson LM, BBC, EBU | merged |  |  |
| S4-220144 | [FS\_NPN4AVProd]: Summary of 5G MAG Workshops | Ericsson LM, BBC, EBU, 5G-MAG | agreed |  |  |
| S4-220145 | [FS\_NPN4AVProd]: Updated Time and Work Plan for FS\_NPN4AVProd | Ericsson LM | revised |  | S4-220280 |
| S4-220146 | [FS\_NPN4AVProd]: Exception Sheet | Ericsson LM | revised |  | S4-220281 |
| S4-220147 | [FS\_5GMS\_EXT]: Corrections and Conclusions for Traffic Identification KI | Ericsson LM | agreed |  |  |
| S4-220148 | [FS\_5GMS\_EXT]: Per App authorization | Ericsson LM | agreed |  |  |
| S4-220149 | [5MBUSA]: Clause 8: Network Function Services | Ericsson LM | merged |  | S4-220235 |
| S4-220150 | [5MBUSA]: Annex B: Nmb8 User Plane ingest examples | Ericsson LM | merged |  | S4-220235 |
| S4-220151 | [5MSA]: Correction 5GMS Client definition and clarification of reference point usage | Ericsson LM | revised |  | S4-220306 |
| S4-220152 | Interest in participation in IVAS codec selection and characterisation phase | HEAD acoustics GmbH | noted |  |  |
| S4-220153 | NBMP in ITT4RT | Nokia Corporation | agreed |  | - |
| S4-220154 | 3GPP SA4 SQ SWG report from teleconference on HaNTE (3 December 2021) | SA4 SQ SWG Chair | approved |  |  |
| S4-220155 | New WID on Enhancements to UE Testing | Orange, HEAD acoustics GmbH | revised |  | S4-220291 |
| S4-220156 | [EVEX] Data Collection, Reporting and Exposure in 5GMS | Qualcomm Incorporated | not treated |  |  |
| S4-220157 | Requirements for HaNTE | Orange | agreed | S4aQ210176 |  |
| S4-220158 | Test methods for HaNTE | Orange | agreed | S4aQ210177 |  |
| S4-220159 | [EVEX] Additional Stage 2 and Stage 3 Text for TS 26.532 | Qualcomm Incorporated | not treated |  |  |
| S4-220160 | TR 26.999 v.0.7.0 | Nokia Corporation | agreed |  |  |
| S4-220161 | Terms of Reference of IVAS Codec Public Collaboration | Dolby Laboratories Inc., Ericsson LM, Fraunhofer IIS, Huawei Technologies Co Ltd., Nokia Corporation, NTT, Orange, Panasonic Corporation, Philips International B.V., Qualcomm Incorporated, VoiceAge Corporation | noted |  |  |
| S4-220162 | Changes to TS 26.114 for External source or occlusion-free overlays | Nokia Corporation, Tencent | revised |  | S4-220259 |
| S4-220163 | TR 26.962 v. 0.3.0 | Nokia Corporation | agreed |  |  |
| S4-220164 | IVAS-7a - Audio format and designators | Ericsson LM | agreed |  |  |
| S4-220165 | IVAS-7a - Additional processing tools | Ericsson LM | agreed |  |  |
| S4-220166 | Proposed updates for IVAS-7a | Ericsson LM | agreed |  |  |
| S4-220167 | VIDEO SWG telco report 30th November 2021 | VIDEO SWG Chair (Tencent) | approved |  |  |
| S4-220168 | VIDEO SWG telco report 14th December 2021 | VIDEO SWG Chair (Tencent) | approved |  |  |
| S4-220169 | VIDEO SWG telco report 11th January 2022 | VIDEO SWG Chair (Tencent) | approved |  |  |
| S4-220170 | VIDEO SWG telco report 1st February 2022 | VIDEO SWG Chair (Tencent) | approved |  |  |
| S4-220171 | Updated VTM software version and configuration files | Ericsson LM, Fraunhofer HHI, InterDigital, Qualcomm | agreed |  |  |
| S4-220172 | Additional Potential Issues for Network Slicing Extensions | Samsung Electronics Co. Ltd., Qualcomm Incorporated | agreed |  |  |
| S4-220173 | Use cases for Network Slicing Extensions for 5G Media Streaming | Samsung Electronics Co., Ltd. | noted |  |  |
| S4-220174 | Aligning IVAS Standardization with Rel-18 Objectives | Dolby Laboratories, Inc., Ericsson LM, Fraunhofer IIS, Huawei Technologies Co., Ltd, Nokia Corporation, NTT, Orange, Panasonic Corporation, Philips International B.V., Qualcomm Incorporated, VoiceAge Corporation | agreed |  |  |
| S4-220175 | WMC - Automatic tool to estimate complexity of floating-point code | VoiceAge Corporation | noted |  |  |
| S4-220176 | Edge-related APIs in M6 | QUALCOMM Europe Inc. - Italy | noted |  |  |
| S4-220177 | OpenAPI and yaml for Edge APIs | QUALCOMM Europe Inc. - Italy | postponed |  |  |
| S4-220178 | [FS\_5GVideo] Potential issues with S4 anchors | Ericsson LM, InterDigital, Qualcomm Inc. | noted |  |  |
| S4-220179 | Draft WID on 5G Real-time Transport  | QUALCOMM Europe Inc. - Spain | revised |  | S4-220275 |
| S4-220180 | Considerations for R18 work in SA4 | Nokia Corporation | noted |  |  |
| S4-220181 | IVAS Permanent Document IVAS-8a: Test Plan for Selection Phase, v.0.2.1 | VoiceAge Corporation | revised |  | S4-220301 |
| S4-220182 | Splitting TS 26.114 into Multiple Documents | Facebook | revised | S4-220082 | S4-220267 |
| S4-220183 | LS on Subject Audio Background Noise Verification | 3GPP MCC | replied in | - | S4-220287 |
| S4-220184 | LS on a new work item for media transport protocols, signalling information of haptic transmission for Immersive Live Experience (ILE) systems | ITU T SG 16 online meeting | noted |  |  |
| S4-220185 | Presentation to SA4#117-e opening plenary | Dolby Laboratories Inc. | revised | S4-220094 | S4-220197 |
| S4-220186 | Requirement on UE Behavior regarding QoE Measurement and Reporting  | Qualcomm Incorporated | not treated |  |  |
| S4-220187 | Requirement on UE Behavior regarding QoE Measurement and Reporting  | Qualcomm Incorporated | revised |  | S4-220262 |
| S4-220188 | Further reply on QoE report handling at QoE pause | 3GPP RAN2 | noted |  |  |
| S4-220189 | LS on the specification of AT commands for NR QoE  | 3GPP RAN2 | noted |  |  |
| S4-220190 | Reply LS on maximum container size for QoE configuration and report | 3GPP RAN2 | replied to |  | S4-220237 |
| S4-220191 | Reply LS on RAN visible QoE (S4-220008) | 3GPP RAN2 | revised |  | S4-220239 |
| S4-220192 | Incoming LS from MPEG on MPEG-I scene description | MPEG | noted |  |  |
| S4-220193 | Liaison to 3GPP SA1 on Haptics | ISO/IEC JTC 1/SC 29/WG 2 | withdrawn | - | - |
| S4-220194 | Liaison statement on VVC CMAF Media Profiles | ISO/IEC JTC 1/SC 29/WG 03 | noted | - | - |
| S4-220195 | Proposed meeting schedule for SA4#117-e | SA4 Chair | agreed | S4-220098 | - |
| S4-220196 | Report of SA4 MBS SWG AH Telco (13th January 2022) | MBS SWG Chair | approved | S4-220089 | - |
| S4-220197 | Presentation to SA4#117-e opening plenary | Dolby Laboratories Inc. | noted | S4-220185 | - |
| S4-220198 | Draft TR 26.998 v1.2.0 | Samsung R&D Institute UK (Rapporteur) | revised | - | S4-220313 |
| S4-220199 | [FS\_5GSTAR] Update to clause 6.4.4 cognitive immersive call flow | Tencent Cloud | agreed | S4-220068 | - |
| S4-220200 | [FS\_5GSTAR] pCR on clause 8 and 9 of TR 26.998 | Samsung Guangzhou Mobile R&D | agreed | S4-220125 | - |
| S4-220201 | [5GSTAR] pCR on clause 9 of TR 26.998 | Samsung Electronics, Co. Ltd., Qualcomm Incorporated | agreed | - | - |
| S4-220202 | [FS\_5GVideo] Verification Reports | Video SWG | noted | - | - |
| S4-220203 | Updates to generic call flow | QUALCOMM Europe Inc. - Italy | agreed | S4-220080 | - |
| S4-220204 | Proposed Updated Work Plan for FS\_5GVideo | Qualcomm Incorporated | agreed | S4-220040 | - |
| S4-220205 | FS\_5GVideo: Permanent document on Open Issues, v0.5.0 | Qualcomm Inc. | agreed | - | - |
| S4-220206 | Draft TR 26.955 v1.5.0 | Qualcomm Inc. | agreed | - | - |
| S4-220207 | [FS\_5G\_Video] Other Updates | Qualcomm Incorporated | revised | S4-220043 | S4-220311 |
| S4-220208 | [FS-5GSTAR] Editorial changes to 6.6.1 Shared AR Conversational Services | Tencent Cloud | agreed | S4-220069 | - |
| S4-220209 | [FS\_5GSTAR] pCR on clause 6.6 of TR 26.998 | Samsung Electronics, Tencent | agreed | S4-220128 | - |
| S4-220210 | [FS\_5GSTAR] Proposed Updates to Conclusions | Qualcomm Incorporated | agreed | S4-220049 | - |
| S4-220211 | [FS\_5GSTAR] pCR on clause 8 of TR 26.998 | Samsung Electronics Romania | agreed | S4-220135 | - |
| S4-220212 | Audio aspects of TR 26.998 | EVS SWG | agreed | - | - |
| S4-220213 | 8K HEVC Operation Point and CMAF Alignment | Qualcomm Inc. | agreed | - | - |
| S4-220214 | 8K TV in 5GMS | Qualcomm Inc. | revised | - | S4-220276 |
| S4-220215 | [8K\_TV\_5G] 8K TV Scenario | Qualcomm Incorporated, Fraunhofer HHI, Interdigital | agreed | S4-220037 | - |
| S4-220216 | [8K\_TV\_5G] 8K TV Traffic Characteristics | Qualcomm Incorporated | agreed | S4-220038 | - |
| S4-220217 | 8K TV Traffic Characteristics | Qualcomm Inc. | agreed | - | - |
| S4-220218 | 8K\_TV\_5G WI summary | Qualcomm Inc. | revised | - | S4-220222 |
| S4-220219 | Draft Feasibility Study on Smartly Tethering AR Glasses (SmarTAR) | Qualcomm Incorporated, Facebook, Dolby Laboratories | revised | S4-220050 | S4-220225 |
| S4-220220 | Draft TR 26.926 v1.1.0 | Video SWG | agreed | - | - |
| S4-220221 | FS\_XRTraffic workplan | Qualcomm Inc. | agreed | - | - |
| S4-220222 | 8K\_TV\_5G WI summary | Qualcomm Inc. | endorsed | S4-220218 | - |
| S4-220223 | Audio aspects of TR 26.998 | EVS SWG | agreed | - | - |
| S4-220224 | [FS\_5G\_Video] Proposed General Definitions for Coding constraints | Qualcomm Incorporated | agreed | S4-220045 | - |
| S4-220225 | Draft Feasibility Study on Smartly Tethering AR Glasses (SmarTAR) | Qualcomm Incorporated; Facebook; Dolby Laboratories Inc.; Xiaomi; Samsung Electronics Co.; Ltd, Tencent; Huawei Technologies Co., Ltd. | revised | S4-220219 | S4-220333 |
| S4-220226 | New Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media | Samsung Electronics Co. Ltd., Tencent, Qualcomm Incorporated, Fraunhofer HHI, InterDigital Communications, Dolby Laboratories Inc., AT&T, Orange, Nokia Corporation | agreed | - | - |
| S4-220227 | Draft WID on 5G media delivery architecture extensions for real-time and AR/MR experience | Samsung Electronics, Co., Ltd, Ericsson LM, Facebook, AT&T, Qualcomm Incorporated, Beijing Xiaomi Mobile Software, Nokia Corporation, InterDigital Communications, MediaTek, Tencent, China Mobile Com. | postponed | S4-220126 | - |
| S4-220228 | LS on Support for Configuration and Reporting of RAN Visible QoE Measurements | 3GPP RAN3 | noted | - | - |
| S4-220229 | LS on Support for Configuration and Reporting of RAN Visible QoE Measurements | 3GPP RAN3 | noted | - | - |
| S4-220230 | LS on Support for Configuration and Reporting of RAN Visible QoE Measurements | 3GPP RAN3 | noted | - | - |
| S4-220231 | [EVEX] Stage 2/3 on Data collection and reporting for 5G Media Streaming | Qualcomm Incorporated, BBC | postponed | S4-220053 | - |
| S4-220232 | [EVEX] Data collection and reporting for 5G Media Streaming | BBC, Qualcomm Incorporated | agreed | S4-220058 | - |
| S4-220233 | [EVEX] TS 26.532: Proposed Editor's Update as V0.2.1 | Qualcomm Incorporated | agreed | S4-220071 | - |
| S4-220234 | [5MBUSA] 5GMS via eMBMS - Architecture, Broadcast and Reporting | Qualcomm Incorporated | revised | S4-220018 | S4-220303 |
| S4-220235 | [5MBUSA] Proposed Updates to TS26.502 | Qualcomm Incorporated | agreed | S4-220112 | - |
| S4-220236 | draft LS Reply on SA4 requirements on QoE | Huawei, HiSilicon | approved | S4-220118 | - |
| S4-220237 | draft LS Reply on maximum container size for QoE configuration and report | Huawei, HiSilicon | approved | S4-220116 | - |
| S4-220238 | Add support for VR QoE metrics | Ericsson LM | agreed | S4-220137 | - |
| S4-220239 | Reply LS on RAN visible QoE | 3GPP RAN2 | approved | S4-220191 | - |
| S4-220240 | Access restrictions in EVEX - Stage 2 | QUALCOMM Europe Inc. - Italy | agreed | S4-220099 | - |
| S4-220241 | Access restrictions in EVEX - Stage 3 | QUALCOMM Europe Inc. - Italy | agreed | S4-220100 | - |
| S4-220242 | TS 26.532 v0.3.0 | Qualcomm, BBC | revised | - | S4-220252 |
| S4-220243 | TS 26.531 v1.1.0 | Qualcomm, BBC | agreed | - | - |
| S4-220244 | [EVEX] Proposed Time Plan | Qualcomm Incorporated | agreed | S4-220051 | - |
| S4-220245 | [FS\_5GMS\_EXT] TV-grade mass distribution of unicast Live Services | Qualcomm Incorporated | agreed | S4-220027 | - |
| S4-220246 | LS to SA2 on FS\_5gMS\_EXT | Ericsson LLM | revised | - | S4-220305 |
| S4-220247 | Proposed conclusion on BDT | QUALCOMM Europe Inc. - Italy | agreed | S4-220078 | - |
| S4-220248 | 26.804 v 1.1.0 | Ericsson LLM | agreed | - | - |
| S4-220249 | [FS\_5GMS-EXT] Updating existing specifications to allow HTTP/3 | Tencent | agreed | S4-220107 | - |
| S4-220250 | conclusions for TR 26.804 | MBS SWG | agreed | - | - |
| S4-220251 | Extensions to MBMS-URLs for ROM Services; WI: TEI17, TRAPI | Qualcomm Inc. | revised | S4-220066 | S4-220308 |
| S4-220252 | TS 26.532 v0.4.0 | Qualcomm, BBC | agreed | S4-220242 | - |
| S4-220253 | Presentation of Specification to TSG: draft TR+CoverSheetTS 26.532, Version 1.0.0 | Qualcomm Inc, BBC, Ericsson LM | agreed | - | - |
| S4-220254 | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | revised | - | S4-220321 |
| S4-220255 | Scene Description-based overlay support in ITT4RT | MTSI SWG | revised | S4-220073 | S4-220266 |
| S4-220256 | Guidelines on Scene Description-based overlays | QUALCOMM Europe Inc. - Italy | agreed | S4-220074 | - |
| S4-220257 | TR 26.862 V0.0.9 | KPN N.V. | agreed | - | - |
| S4-220258 | TR 26.862 V0.1.0 | KPN | revised | - | S4-220265 |
| S4-220259 | Changes to TS 26.114 for External source or occlusion-free overlays | Nokia Corporation, Tencent | agreed | - | - |
| S4-220260 | Work Item Summary for ITT4RT | Nokia | endorsed | - | - |
| S4-220261 | Draft New WID on immersive Real-time Communication for WebRTC | Facebook | revised | S4-220081 | S4-220273 |
| S4-220262 | Requirement on UE Behavior regarding QoE Measurement and Reporting  | Qualcomm Incorporated | revised | S4-220187 | S4-220297 |
| S4-220263 | CR on ITT4RT Phase 2 Features | Nokia Corporation, Tencent, KPN N.V., Samsung, Qualcomm Incorporated | revised | - | S4-220270 |
| S4-220264 | TR 26.962 v. 0.4.0 | KPN | revised | - | S4-220269 |
| S4-220265 | TR 26.862 V0.2.0 | KPN | revised | - | S4-220268 |
| S4-220266 | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | agreed | S4-220255 | - |
| S4-220267 | Splitting TS 26.114 into Multiple Documents | MTSI SWG | noted | - | - |
| S4-220268 | TR 26.862 V0.3.0 | KPN | revised | S4-220265 | S4-220271 |
| S4-220269 | TR 26.962 V0.5.0: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Operation and Usage Guidelines(Release 17) | Nokia, KPN | revised | S4-220264 | S4-220322 |
| S4-220270 | CR on ITT4RT Phase 2 features | Nokia | revised | S4-220263 | S4-220312 |
| S4-220271 | TR 26.862 V0.3.0:Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Use Cases, Requirements and Potential Solutions(Release 17) | KPN N.V | revised | S4-220268 | S4-220323 |
| S4-220272 | CR-26.114 Add support of per-slice QoE measurement | Huawei, HiSilicon | agreed | S4-220122 | - |
| S4-220273 | New WID on immersive Real-time Communication for WebRTC | Facebook | agreed | S4-220261 | - |
| S4-220274 | Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | MTSI SWG | revised | - | S4-220331 |
| S4-220275 | Draft WID on 5G Real-time Transport; draft WID | QUALCOMM Europe Inc. - Spain, AT&T, Nokia, InterDigital, Ericsson, Samsung, Facebook, KPN, Tencent | noted | - | - |
| S4-220276 | CR 26.511-0007-rev1 8KTV in 5GMS (Release 17) | Qualcomm Incorporated, Tencent | agreed | S4-220214 | - |
| S4-220277 | VIDEO SWG report during SA4#117 | Video SWG Chair | approved | - | - |
| S4-220278 | LS to SA2 on NPN4AVPROD | Ericsson LM | revised | - | S4-220328 |
| S4-220279 | TR 26.805 v1.0.2 | Ericsson GmbH, Eurolab | agreed | S4-220136 | - |
| S4-220280 | [FS\_NPN4AVProd]: Updated Time and Work Plan for FS\_NPN4AVProd | Ericsson LM | agreed | S4-220145 | - |
| S4-220281 | [FS\_NPN4AVProd]: Exception Sheet | Ericsson LM | agreed | S4-220146 | - |
| S4-220282 | [FS\_5G\_MSE] TR 26.857 v0.1.0 | Qualcomm Incorporated | agreed | S4-220031 | - |
| S4-220283 | CR-26.247 Add support of per-slice QoE measurement | Huawei, HiSilicon | agreed | S4-220119 | - |
| S4-220284 | LS\_out from BBC | BBC | revised | - | S4-220304 |
| S4-220285 | TS 26.517 V0.1.0 | MBS | agreed | - | - |
| S4-220286 | 3GPP SA4 SQ SWG report at SA4#117-e | SQ SWG Chair | approved | - | - |
| S4-220287 | Reply LS on Audio Background Noise Verification (To: CTIA Certification Audio Working Group) | SQ SWG | approved | - | - |
| S4-220288 | Method for determining ECRP for HaNTE-devices | HEAD acoustics GmbH | revised | S4-220087 | S4-220289 |
| S4-220289 | CR 26132-0106 Method for determining ECRP for HaNTE-devices | HEAD acoustics GmbH | agreed | S4-220288 | - |
| S4-220290 | WI Summary for HaNTE | Qualcomm, Inc. (Rapporteur) | endorsed | - | - |
| S4-220291 | New WID on Enhancements to UE Testing | SQ SWGOrange, HEAD acoustics GmbH | revised | S4-220155 | S4-220320 |
| S4-220292 | Edge Provisioning for Media Services | QUALCOMM Europe Inc. - Italy | postponed | S4-220075 | - |
| S4-220293 | Edge Configuration for 5G Media Services | QUALCOMM Europe Inc. - Italy | postponed | S4-220076 | - |
| S4-220294 | [EDGE] Triggering discussion on triggering edge servers | Tencent Cloud | agreed | S4-220083 | - |
| S4-220295 | exception sheet for EDGE\_3 | QUALCOMM Europe Inc. - Italy | agreed | S4-220077 | - |
| S4-220296 | LS response to S4-211579: 3GPP SA4 on 5GMS AF Event Exposure for Lawful Disclosure | ETSI TC LI | noted | - | - |
| S4-220297 | Requirement on UE Behavior regarding QoE Measurement and Reporting  | Qualcomm Incorporated | agreed | S4-220262 | - |
| S4-220298 | [FS\_5G\_Video] Proposed Exception Sheet | Qualcomm Incorporated | agreed | S4-220046 | - |
| S4-220299 | Missing XML Data Type for Attributes in MBMS USD | Qualcomm Incorporated | agreed | S4-220103 | - |
| S4-220300 | IVAS-6: Selection Deliverables, Version 0.2.0 | Dolby Lab Inc. (Editor) | agreed | - | - |
| S4-220301 | IVAS Permanent Document IVAS-8a: Test Plan for Selection Phase, v.0.3.0 | VoiceAge Corporation | agreed | S4-220181 | - |
| S4-220302 | IVAS-7a: Processing plan for selection phase | Ericsson | agreed | - | - |
| S4-220303 | [5MBUSA] 5GMS via eMBMS - Architecture, Broadcast and Reporting | Qualcomm Incorporated | revised | S4-220234 | S4-220316 |
| S4-220304 | LS on 5MBS User Services | BBC | approved | S4-220284 | - |
| S4-220305 | LS to SA2 on FS\_5gMS\_EXT | Ericsson LLM | approved | S4-220246 | - |
| S4-220306 | [5MSA]: Correction 5GMS Client definition and clarification of reference point usage | Ericsson LM | revised | S4-220151 | S4-220314 |
| S4-220307 | [5MSA]: Correction 5GMS Client definition and clarification of reference point usage | Ericsson | revised | - | S4-220315 |
| S4-220308 | Extensions to MBMS-URLs for ROM Services; WI: TEI17, TRAPI | Qualcomm Inc. | revised | S4-220251 | S4-220317 |
| S4-220309 | draft LS Reply on QoE configuration and reporting related issues | Huawei, HiSilicon | approved | S4-220117 | - |
| S4-220310 | MBS SWG Report during SA4#117-e | MBS WG Chair | approved | - | - |
| S4-220311 | [FS\_5G\_Video] Other Updates | Qualcomm Incorporated | agreed | S4-220207 | - |
| S4-220312 | CR on ITT4RT Phase 2 features | Nokia Corporation, Tencent, KPN N.V., Samsung, Qualcomm Incorporated | agreed | S4-220270 | - |
| S4-220313 | Draft TR 26.998 v1.3.0 | Samsung R&D Institute UK (Rapporteur) | agreed | S4-220198 | - |
| S4-220314 | [5MSA]: Correction 5GMS Client definition and clarification of reference point usage | Ericsson LM | agreed | S4-220306 | - |
| S4-220315 | [5MSA]: Correction 5GMS Client definition and clarification of reference point usage | Ericsson | agreed | S4-220307 | - |
| S4-220316 | [5MBUSA] 5GMS via eMBMS - Architecture, Broadcast and Reporting | Qualcomm Incorporated | revised | S4-220303 | S4-220329 |
| S4-220317 | Extensions to MBMS-URLs for ROM Services; WI: TEI17, TRAPI | Qualcomm Inc. | agreed | S4-220308 | - |
| S4-220318 | MTSI SWG Report during SA4#117-e | MTSI SWG Chair | approved | - | - |
| S4-220319 | Draft WID on Media Capabilities for Augmented Reality (MeCAR) | Xiaomi Communications, Qualcomm Incorporated | revised | S4-220127 | S4-220332 |
| S4-220320 | New WID on Enhancements to UE Testing | SQ SWGOrange, HEAD acoustics GmbH | noted | S4-220291 | - |
| S4-220321 | LS on multiparty Real-time Text (RTT) in conference calling | 3GPP SA4 | approved | S4-220254 | - |
| S4-220322 | TR 26.962 V0.5.0: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Operation and Usage Guidelines(Release 17) | Nokia, KPN | agreed | S4-220269 | - |
| S4-220323 | TR 26.862 0.5.0: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Use Cases, Requirements and Potential Solutions(Release 17) | MTSI WG | agreed | S4-220271 | - |
| S4-220324 | EVS Chair's Report during SA4#117-e | EVS Chair | approved | - | - |
| S4-220325 | Proposed Audio SWG Organization | EVS SWG Chair | noted | - | - |
| S4-220326 | 5GMS\_EDGE\_3 time plan v0.1.0 | Qualcomm Inc. | revised | - | S4-220327 |
| S4-220327 | 5GMS\_EDGE\_3 time plan v0.1.0 | Qualcomm Inc. | agreed | S4-220326 | - |
| S4-220328 | LS to SA2 on NPN4AVPROD | Ericsson LM | approved | S4-220278 | - |
| S4-220329 | [5MBUSA] 5GMS via eMBMS - Architecture, Broadcast and Reporting | Qualcomm Incorporated | agreed | S4-220316 | - |
| S4-220330 | Rel-16 TSs/TRs to be promoted to Rel-17 | SA4 chair | agreed | S4-220097 | - |
| S4-220331 | New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | MTSI SWG | agreed | S4-220274 | - |
| S4-220332 | Draft WID on Media Capabilities for Augmented Reality (MeCAR) | Xiaomi Communications, Qualcomm Incorporated | agreed | S4-220319 | - |
| S4-220333 | Draft Feasibility Study on Smartly Tethering AR Glasses (SmarTAR) | Qualcomm Incorporated; Facebook; Dolby Laboratories Inc.; Xiaomi; Samsung Electronics Co.; Ltd, Tencent; Huawei Technologies Co., Ltd. | agreed | S4-220225 | - |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S4-220217 | 8K TV Traffic Characteristics | Qualcomm Inc. | - | - | - | - | - | - | agreed |
| S4-220263 | CR on ITT4RT Phase 2 Features | Nokia Corporation, Tencent, KPN N.V., Samsung, Qualcomm Incorporated | - | - | - | - | - | - | revised |
| S4-220073 | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | 26.114 | 0523 | - | Rel-17 | B | ITT4RT | revised |
| S4-220254 | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | 26.114 | 0523 | 1 | Rel-17 | B | ITT4RT | revised |
| S4-220255 | Scene Description-based overlay support in ITT4RT | MTSI SWG | 26.114 | 0523 | 1 | Rel-17 | B | ITT4RT | revised |
| S4-220266 | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | 26.114 | 0523 | 2 | Rel-17 | B | ITT4RT | agreed |
| S4-220122 | CR-26.114 Add support of per-slice QoE measurement | Huawei, HiSilicon | 26.114 | 0524 | - | Rel-17 | F | NR\_QoE-Core | revised |
| S4-220272 | CR-26.114 Add support of per-slice QoE measurement | Huawei, HiSilicon | 26.114 | 0524 | 1 | Rel-17 | F | NR\_QoE-Core | agreed |
| S4-220262 | Requirement on UE Behavior regarding QoE Measurement and Reporting  | Qualcomm Incorporated | 26.114 | 0525 | 0 | Rel-17 | - | ITT4RT | revised |
| S4-220297 | Requirement on UE Behavior regarding QoE Measurement and Reporting  | Qualcomm Incorporated | 26.114 | 0525 | 1 | Rel-17 | - | ITT4RT | agreed |
| S4-220270 | CR on ITT4RT Phase 2 features | Nokia | 26.114 | 0526 | 1 | Rel-17 | B | ITT4RT | revised |
| S4-220312 | CR on ITT4RT Phase 2 features | Nokia Corporation, Tencent, KPN N.V., Samsung, Qualcomm Incorporated | 26.114 | 0526 | 2 | Rel-17 | B | ITT4RT | agreed |
| S4-220213 | 8K HEVC Operation Point and CMAF Alignment | Qualcomm Inc. | 26.116 | 18 | 0 | Rel-17 | B | - | agreed |
| S4-220289 | CR 26132-0106 Method for determining ECRP for HaNTE-devices | HEAD acoustics GmbH | 26.132 | 0106 | 0 | Rel-17 | B | HANTe | agreed |
| S4-220119 | CR-26.247 Add support of per-slice QoE measurement | Huawei, HiSilicon | 26.247 | 0169 | - | Rel-17 | F | NR\_QoE-Core | revised |
| S4-220283 | CR-26.247 Add support of per-slice QoE measurement | Huawei, HiSilicon | 26.247 | 0169 | 1 | Rel-17 | F | NR\_QoE-Core | agreed |
| S4-220120 | CR-26.247 support of RAN Visible QoE | Huawei, HiSilicon | 26.247 | 0170 | - | Rel-17 | F | NR\_QoE-Core | noted |
| S4-220103 | Missing XML Data Type for Attributes in MBMS USD | Qualcomm Incorporated | 26.346 | 0658 | - | Rel-16 | F | AE\_enTV-S4, TEI16 | revised |
| S4-220299 | Missing XML Data Type for Attributes in MBMS USD | Qualcomm Incorporated | 26.346 | 0658 | 1 | Rel-16 | F | AE\_enTV-S4, TEI16 | agreed |
| S4-220251 | Extensions to MBMS-URLs for ROM Services; WI: TEI17, TRAPI | Qualcomm Inc. | 26.347 | 11 | 0 | Rel-17 | C |  TEI17, TRAPI | revised |
| S4-220308 | Extensions to MBMS-URLs for ROM Services; WI: TEI17, TRAPI | Qualcomm Inc. | 26.347 | 11 | 1 | Rel-17 | C |  TEI17, TRAPI | revised |
| S4-220317 | Extensions to MBMS-URLs for ROM Services; WI: TEI17, TRAPI | Qualcomm Inc. | 26.347 | 11 | 2 | Rel-17 | C |  TEI17, TRAPI | agreed |
| S4-220121 | CR-26.501 suppor of per-slice metrics reporting | Huawei, HiSilicon | 26.501 | 0031 | - | Rel-17 | F | NR\_QoE-Core | noted |
| S4-220306 | [5MSA]: Correction 5GMS Client definition and clarification of reference point usage | Ericsson LM | 26.501 | 16.9.0 | 0 | Rel-16 | F | 5GMSA | revised |
| S4-220314 | [5MSA]: Correction 5GMS Client definition and clarification of reference point usage | Ericsson LM | 26.501 | 16.9.0 | 1 | Rel-16 | F | 5GMSA | agreed |
| S4-220307 | [5MSA]: Correction 5GMS Client definition and clarification of reference point usage | Ericsson | 26.501 | 33 | 0 | Rel-17 | A | 5MSA | revised |
| S4-220315 | [5MSA]: Correction 5GMS Client definition and clarification of reference point usage | Ericsson | 26.501 | 33 | 1 | Rel-17 | A | 5MSA | agreed |
| S4-220276 | CR 26.511-0007-rev1 8KTV in 5GMS (Release 17) | Qualcomm Incorporated, Tencent | 26.511 | 0007 | 1 | Rel-17 | B | 8K\_TV\_5G | agreed |
| S4-220214 | 8K TV in 5GMS | Qualcomm Inc. | 26.511 | 7 | 0 | Rel-17 | B | - | revised |
| S4-220055 | [5GMS3] Correction to QoE metrics reporting client configuration | BBC | 26.512 | 0014 | - | Rel-16 | F | 5GMS3 | agreed |
| S4-220075 | Edge Provisioning for Media Services | QUALCOMM Europe Inc. - Italy | 26.512 | 0015 | - | Rel-17 | B | 5GMS\_EDGE\_3 | revised |
| S4-220292 | Edge Provisioning for Media Services | QUALCOMM Europe Inc. - Italy | 26.512 | 0015 | 1 | Rel-17 | B | 5GMS\_EDGE\_3 | postponed |
| S4-220076 | Edge Configuration for 5G Media Services | QUALCOMM Europe Inc. - Italy | 26.512 | 0016 | - | Rel-17 | B | 5GMS\_EDGE\_3 | revised |
| S4-220293 | Edge Configuration for 5G Media Services | QUALCOMM Europe Inc. - Italy | 26.512 | 0016 | 1 | Rel-17 | B | 5GMS\_EDGE\_3 | postponed |
| S4-220053 | [EVEX] Stage 2/3 on Data collection and reporting for 5G Media Streaming | Qualcomm Incorporated, BBC | 26.512 | 0017 | - | Rel-17 | B | EVEX | revised |
| S4-220231 | [EVEX] Stage 2/3 on Data collection and reporting for 5G Media Streaming | Qualcomm Incorporated, BBC | 26.512 | 0017 | 1 | Rel-17 | B | EVEX | postponed |
| S4-220177 | OpenAPI and yaml for Edge APIs | QUALCOMM Europe Inc. - Italy | 26.512 | 0018 | - | Rel-17 | B | 5GMS\_EDGE\_3 | postponed |
| S4-220238 | Add support for VR QoE metrics | Ericsson LM | 26.512 | 19 | 0 | Rel-16 | F | 5GMS3 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tdoc** | **Title** | **Source** | **TDoc Status** | **Reply to** | **LS\_To** | **LS\_Cc** | **Original LS** | **Reply in** |
| S4-220003 | Reply LS on 5MBS preparation of stage 3 work split between SA4 and CT3 | 3GPP CT4 | postponed |   |   |   | C4-220307 |   |
| S4-220004 | Liaison statement to 3GPP SA4 on MPEG Green Metadata | ISO-IECJTC1-SC29 | noted |   |   |   | ISO-IECJTC1-SC29\_N20201 |   |
| S4-220005 | LS on the MBS broadcast service continuity and MBS session identification | 3GPP RAN2 | postponed |   |   |   | R2-2108914 |   |
| S4-220006 | LS on RAN visible QoE | 3GPP RAN2 | noted |   |   |   | R2-2111603 |   |
| S4-220007 | LS on SA4 requirements for QoE | 3GPP RAN2 | replied to | R2-211665(S4-220118) | RAN2 | RAN3 | R2-2111665 | S4-220118 |
| S4-220008 | Reply LS on QoE configuration and reporting related issues | 3GPP RAN3 | replied to | R3-214471(S4-220008) | RAN3 | RAN2, SA4, SA5 | R3-214471 | S4-220117 |
| S4-220009 | Reply LS on maximum number of MBS sessions that can be associated to a PDU session | 3GPP SA2 | postponed |   |   |   | S2-2109171 |   |
| S4-220010 | Reply LS on QoE report handling at QoE pause | 3GPP SA3 | noted |   |   |   | S3-214458 |   |
| S4-220011 | Reply LS on QoE report handling at QoE pause | 3GPP SA5 | agreed |   |   |   | S5-214519 |   |
| S4-220012 | Reply LS on updating the readme.md file in 3GPP Forge | 3GPP SA5 | noted |   |   |   | S5-216413 |   |
| S4-220013 | LS on the mapping between service types and slice at application | 3GPP SA5 | noted |   |   |   | S5-216414 |   |
| S4-220014 | LS on QoE configuration and reporting related issues | 3GPP SA5 | noted |   |   |   | S5-216415 |   |
| S4-220015 | LS Reply on QoE report handling at QoE pause | 3GPP SA5 | noted |   |   |   | S5-216417 |   |
| S4-220016 | LS on new work item Q.IBN-SA “Signalling architecture of Intent-Based Network for network evolution | ITU SG-11 | noted |   |   |   | sp16-sg11-oLS-00231 |   |
| S4-220017 | LS on Energy Efficiency as guiding principle for new solutions | 3GPP SA | noted |   |   |   | SP-211621 |   |
| S4-220101 | LS on Content Encdoing In MBMS FLUTE | 3GPP MCC | postponed |   |   |   |   |   |
| S4-220102 | ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling | 3GPP MCC | noted |   |   |   | S4-191216 (HF(22)087009r1) |   |
| S4-220183 | LS on Subject Audio Background Noise Verification | 3GPP MCC | replied in |   | CTIA Certification Audio Working Group |   | S4-220183 (CTIA) | S4-220287 |
| S4-220184 | LS on a new work item for media transport protocols, signalling information of haptic transmission for Immersive Live Experience (ILE) systems | ITU T SG 16 online meeting | noted |   |   |   |   |   |
| S4-220188 | Further reply on QoE report handling at QoE pause | 3GPP RAN2 | noted | R2-2109385 / S4-211290 | SA4 | SA3, SA5 |   |   |
| S4-220189 | LS on the specification of AT commands for NR QoE | 3GPP RAN2 | noted |   | CT1 | RAN3, SA4, SA5 |   |   |
| S4-220190 | Reply LS on maximum container size for QoE configuration and report | 3GPP RAN2 | replied to | R2-2109386/S4-211291 | SA4 | RAN3, CT1, SA5 | R2-2109386/S4-211291 | S4-220116 |
| S4-220191 | Reply LS on RAN visible QoE (S4-220008) | 3GPP RAN2 | revised | R2-2200110/R3-216227 | SA4, RAN3 |   |   |   |
| S4-220192 | Incoming LS from MPEG on MPEG-I scene description | MPEG | noted |   |   |   |   |   |
| S4-220193 | Liaison to 3GPP SA1 on Haptics | ISO/IEC JTC 1/SC 29/WG 2 | Not pursued |   |   |   |   |   |
| S4-220194 | Liaison statement on VVC CMAF Media Profiles | ISO/IEC JTC 1/SC 29/WG 03 | noted |   |   |   |   |   |
| S4-220228 | LS on Support for Configuration and Reporting of RAN Visible QoE Measurements | 3GPP RAN3 | noted | R3-221465 |   |   |   |   |
| S4-220229 | LS on Support for Configuration and Reporting of RAN Visible QoE Measurements | 3GPP RAN3 | noted | R3-221464 | SA4 | RAN2 |   |   |
| S4-220230 | LS on Support for Configuration and Reporting of RAN Visible QoE Measurements | 3GPP RAN3 | noted | R3-221463 | CT1 | RAN2, SA4 |   |   |
| S4-220296 | LS response to S4-211579: 3GPP SA4 on 5GMS AF Event Exposure for Lawful Disclosure | ETSI TC LI | noted | LI(22)P59035r1 | SA4 | 3GPP SA3 |   |   |

### C2: Outgoing liaison statements

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tdoc** | **Title** | **TDoc Status** | **Is revision of** | **Reply to** | **Original LS** | **LS\_To** | **LS\_Cc** |
| S4-220236 | LS Reply on SA4 requirements on QoE | approved | S4-220118 | S4-220007 | R2-211665 | RAN2 | RAN3 |
| S4-220237 | LS Reply on maximum container size for QoE configuration and report | approved | S4-220116 | S4-220190 | R2-2202018 | RAN2 | RAN3, SA5, CT1 |
| S4-220239 | Reply LS on RAN visible QoE | approved | S4-220191 | S4-220191 | R2-2200110/R3-216227 | SA4, RAN3 |   |
| S4-220287 | Reply LS on Audio Background Noise Verification (To: CTIA Certification Audio Working Group) | approved |   | S4-220183 |   |   |   |
| S4-220304 | LS on 5MBS User Services | approved | S4-220284 |   |   | 3GPP SA2, CT3, CT4 | SA6 |
| S4-220305 | LS to SA2 on FS\_5gMS\_EXT | approved | S4-220246 |   |   |   |   |
| S4-220309 | LS Reply on QoE configuration and reporting related issues | approved | S4-220117 | S4-220008 | R3-214471 | RAN3 | RAN2, SA5 |
| S4-220321 | LS on multiparty Real-time Text (RTT) in conference calling | approved | S4-220254 | S4-220102 |   | SA1, CT1, CT4, GSMA NG (GSG, UPG, ESTF), ATIS WTSC |   |
| S4-220328 | LS to SA2 on NPN4AVPROD | approved | S4-220278 |   |   |   |   |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S4-220226 | New Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media | Samsung Electronics Co. Ltd., Tencent, Qualcomm Incorporated, Fraunhofer HHI, InterDigital Communications, Dolby Laboratories Inc., AT&T, Orange, Nokia Corporation | SID new |
| S4-220331 | New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | MTSI SWG | SID new |
| S4-220333 | Draft Feasibility Study on Smartly Tethering AR Glasses (SmarTAR) | Qualcomm Incorporated; Facebook; Dolby Laboratories Inc.; Xiaomi; Samsung Electronics Co.; Ltd, Tencent; Huawei Technologies Co., Ltd. | SID new |
| S4-220273 | New WID on immersive Real-time Communication for WebRTC | Facebook | WID new |
| S4-220332 | Draft WID on Media Capabilities for Augmented Reality (MeCAR) | Xiaomi Communications, Qualcomm Incorporated | WID new |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S4-220031 | 26.857 | 0.0.1 | [FS\_5G\_MSE] TR 26.857 v0.0.1 |
| S4-220041 | 26.955 | 1.4.0 | TR26.955: Proposed Editor's Update from Telcos |
| S4-220054 | 26.955 | 1.4.6 | TR26.955: Proposed Editor's Update from Telcos |
| S4-220060 | 26.998 | 1.1.2 | TR26.998: Editor's Updates from Telcos |
| S4-220133 | 26.862 | 0.0.7 | TR 26.862 V0.0.8 |
| S4-220136 | 26.805 | 1.0.2 | TR 26.805 v1.0.2 |
| S4-220198 | 26.998 | 1.2.0 | Draft TR 26.998 v1.2.0 |
| S4-220206 | - | .. | Draft TR 26.955 v1.5.0 |
| S4-220220 | 26.926 | 1.1.0 | Draft TR 26.926 v1.1.0 |
| S4-220242 | 26.532 | 0.3.0 | TS 26.532 v0.3.0 |
| S4-220243 | TS 26.531 v1.1.0 | 1.1.0 | TS 26.531 v1.1.0 |
| S4-220248 | - | .. | 26.804 v 1.1.0 |
| S4-220252 | 26.532 | 0.4.0 | TS 26.532 v0.4.0 |
| S4-220253 | - | .. | Presentation of Specification to TSG: draft TR+CoverSheetTS 26.532, Version 1.0.0 |
| S4-220258 | - | .. | TR 26.862 V0.1.0 |
| S4-220264 | - | .. | TR 26.962 v. 0.4.0 |
| S4-220265 | - | .. | TR 26.862 V0.2.0 |
| S4-220268 | - | .. | TR 26.862 V0.3.0 |
| S4-220269 | - | .. | TR 26.962 V0.5.0: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Operation and Usage Guidelines(Release 17) |
| S4-220271 | - | .. | TR 26.862 V0.3.0:Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Use Cases, Requirements and Potential Solutions(Release 17) |
| S4-220279 | 26.805 | 1.0.2 | TR 26.805 v1.0.2 |
| S4-220282 | 26.857 | 0.1.0 | [FS\_5G\_MSE] TR 26.857 v0.1.0 |
| S4-220285 | 26.517 | 0.1.0 | TS 26.517 V0.1.0 |
| S4-220313 | 26.998 | 1.3.0 | Draft TR 26.998 v1.3.0 |
| S4-220322 | - | .. | TR 26.962 V0.5.0: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Operation and Usage Guidelines(Release 17) |
| S4-220323 | 26.862 | 0.5.0 | TR 26.862 0.5.0: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Use Cases, Requirements and Potential Solutions(Release 17) |

## Annex F: List of Output Documents to SA#95-e Plenary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SA4 Tdoc** | **TDoc** | **Title** | **Source** | **Type** | **For** |
| S4-220055, S4-220238 | SP-220031 | CR pack for correction and adding support for VR-QoE metrics [26.512; WID:5GMS3] | 3GPP SA4 | CR pack | Approval |
| S4-220213, S4-220217, S4-220276 | SP-220032 | CR Pack on 8K HEVC Operation Point, CMAF Alignment and Traffic Characteristics [26.116 and 26.925 & 26.511; WID: 8K\_TV\_5G] | 3GPP SA4 | CR pack | Approval |
| S4-220272,S4-220283, S4-220297 | SP-220033 | CR Pack for QoE measurements [26.114 and 26.247; WID: NR\_QoE- Core] | 3GPP SA4 | CR pack | Approval |
| S4-220289 | SP-220034 | CR Pack on the method for determining ECRP for HaNTE-devices [26.132; WID: HanTE] | 3GPP SA4 | CR pack | Approval |
| S4-220312 | SP-220035 | CR Pack on ITT4RT Phase 2 [26.114; WID: ITT4RT] | 3GPP SA4 | CR pack | Approval |
| S4-220299 | SP-220036 | CR Pack on Missing XML Data Type for Attributes in MBMS USD [26.346; WID:AE\_enTV-S4, TEI16] | 3GPP SA4 | CR pack | Approval |
| S4-220314, S4-220315 | SP-220037 | CR pack on Correction 5GMS Client definition and clarification of reference point usage [26.501; WID: 5GMSA] | 3GPP SA4 | CR pack | Approval |
| S4-220317 | SP-220038 | CR Pack on Extensions to MBMS-URLs for ROM Services [26.347;WID: TEI17, TRAPI] | 3GPP SA4 | CR pack | Approval |
| S4-220329 | SP-220039 | CR Pack on 5GMS via eMBMS - Architecture, Broadcast and Reporting [26.501; WID: 5MBUSA] | 3GPP SA4 | CR pack | Approval |
| S4-220226 | SP-220328 | New Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media | 3GPP SA4 | SID new | Approval |
| S4-220273 | SP-220239 | New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | 3GPP SA4 | SID new | Approval |
| S4-220333 | SP-220240 | New Feasibility Study on Smartly Tethering AR Glasses (SmarTAR) | 3GPP SA4 | SID new | Approval |
| S4-220273 | SP-220241 | New WID on immersive Real-time Communication for WebRTC (iRTCW) | 3GPP SA4 | WID new | Approval |
| S4-220332 | SP-220242 | New WID on Media Capabilities for Augmented Reality (MeCAR) | 3GPP SA4 | WID new | Approval |
| S4-220024 | SP-220243 | [5MBP3] Proposed Exception Sheet | 3GPP SA4 | WI exception request | Approval |
| S4-220052 | SP-220244 | [EVEX] Proposed Exception Sheet | 3GPP SA4 | WI exception request | Approval |
| S4-220281 | SP-220245 | [FS\_NPN4AVProd] Proposed Exception Request | 3GPP SA4 | WI exception request | Approval |
| S4-220295 | SP-220246 | [5GMS\_EDGE\_3] Proposed Exception Request | 3GPP SA4 | WI exception request | Approval |
| S4-220298 | SP-220247 | [FS\_5GVideo] Proposed Exception Sheet | 3GPP SA4 | WI exception request | Approval |
| S4-220253 | SP-220248 | TS 26.532: Data Collection and Reporting; Protocols and Formats | 3GPP SA4 | draft TS | Information |
| S4-220285 | SP-220249 | TS 26.517: 5G Multicast–Broadcast User Services; Protocols and Formats | 3GPP SA4 | draft TS | Information |
| S4-220322 | SP-220250 | TR 26.962: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Operation and Usage Guidelines | 3GPP SA4 | draft TR | Approval |
| S4-220323 | SP-220251 | TR 26.862: Immersive Teleconferencing and Telepresence for Remote Terminals (ITT4RT) Use Cases, Requirements and Potential Solutions | 3GPP SA4 | draft TR | Approval |
| S4-220160 | SP-220252 | TR 26.999: Virtual Reality (VR) Streaming Interoperability and Characterization | 3GPP SA4 | draft TR | Approval |
| S4-220248 | SP-220253 | TR 26.804: Study on 5G media streaming extensions | 3GPP SA4 | draft TR | Approval |
| S4-220313 | SP-220254 | TR 26.998: Support of 5G Glass-type Augmented Reality / Mixed Reality (AR/MR) devices | 3GPP SA4 | draft TR | Approval |

## Annex G: SA4 WI/SI Status Update after SA4#117-e

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **WI\_Code** | **WI\_ID** | **Completion %age till SA4#116-e** | **Completion %age till SA4#117-e** | **Specify whether Stage2 / Stage 3** |
| Support of Immersive Teleconferencing and Telepresence for Remote Terminals | ITT4RT | 820003 | 90% | 100% | Stage 3 |
| Terminal Audio quality performance and Test methods for Immersive Audio Services | ATIAS | 830005 |   |   | Stage 3 |
| Handsets Featuring Non-Traditional Earpieces | HaNTE | 860012 | 85% | 100% | Stage 3 |
| EVS Codec Extension for Immersive Voice and Audio Services | IVAS\_Codec | 770024 | 30% | 30% | Stage 3 |
| 5GMS AF Event Exposure | EVEX | 920008 | 40% | 60% | Stage 2 and Stage 3 |
| Edge Extensions to the 5G Media Streaming Architecture | 5GMS\_EDGE | 920009 | 80% | 85% | Stage 2 |
| 8K Television over 5G | 8K\_TV\_5G | 920011 | 60% | 100% | Stage 3 |
| 5G Multicast-Broadcast User Service Architecture and related 5GMS Extensions | 5MBUSA | 920010 | 60% | 100% | Stage 2 |
| 5G Multicast-Broadcast Protocols | 5MBP3 | 940008 | 0% | 40% | Stage 3 |
| Study on VR Streaming Conformance and Guidelines | FS\_VR\_CoGui | 850004 | 90% | 100% | Study |
| Study on 5G Video Codec Characteristics | FS\_5GVideo | 870011 | 80% | 90% | Study |
| Study on the use of NBMP in FLUS | FS\_FLUS\_NBMP | 870012 | 100% | 100% | Study |
| Study on Typical Traffic Characteristics for XR Services and other Media | FS\_XRTraffic | 870013 | 75% | 80% | Study |
| Study on 5G media streaming extensions  | FS\_5GMS\_EXT | 900029 | 60% | 100% | Study |
| Study on Media Production over 5G NPN | FS\_5G\_4\_AVProd | 910001 | 50% | 80% | Study |
| Study on 5G Glass-type AR/MR Devices | FS\_5GSTAR | 880011 | 90% | 100% | Study |
| Study on 5G Media Service Enablers | FS\_5G\_MSE | 940010 | 0% | 20% | Study |

## Annex H: List of Conference Calls approved by SA4#117-e



## Annex H: Delegate List for Sa4#117-e

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## Annex I: List of future meetings

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| Future Meetings | Dates  | Venue and Host |
| SA4#118-e | E-meeting: 6-14 April 2022 | Host: MCC, Electronic meeting |
| SA4#119-e | E-meeting: 11-20 May 2022 | Host: MCC, Electronic meeting |
| SA4#120 (provisioned as a F2F meeting) | F2F: 22-26 August 2022 | Host: TBD, Venue: Malaga, ES |
| SA4#121(provisioned as a F2F meeting as of today) | F2F: 14-18 November 2022 | Host: TBD, Venue: TBD, c/o ATIS (subject to further confirmation) |
| SA4#122(provisioned as a F2F meeting as of today) | F2F: 20-24 February 2023 | Host: TBD, Venue: TBD |
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