**Agenda Item: 10.5**

**Source: Samsung Electronics, Co, LTD (Rapporteur)**

**Title: iRTCW Time & Work Plan**

**Version: 0.9**

**Document for: Discussion & Agreement**

**Introduction**

It is proposed to proceed Rel-18 WI iRTCW with the following deliverables:

1. TS 26.113 *Enabler for Immersive Real-time Communication* V2.0.0
2. (If any) files to be attached to TS 26.113
3. A source file (e.g., of Visio) including all figures in TS 26.113 (for facilitating maintenance and enhancement of the specification)
4. A permanent document including key contents, tentatively agreed texts, and open issues that may necessitate further works in RTC or other SA4 SWGs, 3GPP WGs, or other organizations.

Detailed schedules including telcos will be introduced and aligned with other Rel-18 works. iRTCW includes several tracks of works that have to be aligned. Each track follows a four-step process:

1. Review: start initial discussion on the topic (with contributions covering basic/background information)
2. Progress: (1) outline potential solutions (if used for each track), (2) update and increase version number (if used for TS 26.113)
3. Draft: draft texts, tables, or figures to be included in TS 26.113
4. Agree: agree texts, tables, or figures to be included in TS 26.113.

**Proposed Time and Work Plan**

|  |  |  |
| --- | --- | --- |
| **Meeting** | **Date** | **Activity** |
| SA4#117-e | 14-23 February, 2022 | * Agreed New WID on immersive Real-time Communication for WebRTC ([S4-220273](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_117-e/Docs/S4-220273.zip)) |
| SA#95-e | 15-24 March, 2022 | * Approved New WID on immersive Real-time Communication for WebRTC ([SP-220241](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220241.zip)) |
| SA4#118-e | 6-14 April, 2022 | * Reviewed time and work plan ([S4-220417](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_118-e/Docs/S4-220417.zip)) |
| SA4#119-e | 11-20 May, 2022 | * Agreed skeleton of TS 26.113 ([S4-220768](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220768.zip)) * Agreed skeleton of permanent document ([S4-220769](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220769.zip)) * Agreed time and work plan ([S4-220770](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_119-e/Docs/S4-220770.zip)) |
| Telco #1 | 1 June, 2022 (16:00-18:00 CEST, Host: Qualcomm) | * Submission due: 23:59 CEST, 30 May, 2022 * Classified & clarified proposals on architecture and function ([S4aR220009](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220009.zip)) * Agreed (into PD) WebRTC QoS architecture ([S4aR220010](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220010.zip)) |
| SA#96 | 7-10 June, 2022 | * Approved Rel-18 WIs related to iRTCW |
| Telco #2 | 13 July, 2022 (06:00-08:00 CEST, Host: Qualcomm) | * Submission due: 23:59 CEST, 8 July, 2022 * Agreed (into PD) 3D video capture ([S4aR220014](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220014.zip)) |
| Telco #3 | 27 July, 2022 (16:00-18:00 CEST, Host: Qualcomm) | * Submission due: 23:59 CEST, 22 July, 2022 * Discussed microphone description ([S4aR220016](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220016.zip)) * Discussed volumetric video use cases and requirements ([S4aR220020](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220020.zip)) |
| Telco #4 | 3 August, 2022 (06:00-08:00 CEST, Host: Qualcomm) | * Submission due: 23:59 CEST, 29 July, 2022 * Agreed (into PD) microphone description (rev) ([S4aR220022](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220022.zip)) * Agreed (into PD) size measurement and scaling ([S4aR220023](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220023.zip)) * Discussed dynamic 3D representation use cases and requirements ([S4aR220024](https://urldefense.com/v3/__https:/www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220024.zip__;!!Bt8RZUm9aw!-KG1Bkk2izWIXLJWwz9blhjonr55nu_MMAPclghDnlxTG7PtS0kSYSdhSWkVpa3zkNFZxOdlFtTpJEVBSw$)) |
| SA4#120-e | 17-26 August, 2022 | * Agreed (into PD) dynamic 3D representation use cases and requirements ([S4-221193](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_120-e/Docs/S4-221193.zip)) * Agreed requirements for WebRTC signaling protocol ([S4-221194](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_120-e/Docs/S4-221194.zip)) * Agreed functional requirements for avatar driven ([S4-221196](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_120-e/Docs/S4-221196.zip)) * Discussed iRTCW client functional components and architecture ([S4-221197](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_120-e/Docs/S4-221197.zip)) |
| Telco #1 | 7 September, 2022 (16:00-18:00 CEST, Host: Qualcomm) | * Discussed WebRTC protocol stack for iRTC client in the terminal ([S4aR220029](https://urldefense.com/v3/__https:/www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220029.zip__;!!Bt8RZUm9aw!6xy71PRR83ink_IUAgWOdQ4uWtzzagSdyd8acqFqNZDesc5fYoJqxXdi4RiV_lZ01d6MFxQ0WzzQbkbhPQ$)) |
| Telco #2 | 21 September, 2022 (16:00-18:00 CEST, Host: Qualcomm) | * Discussed iRTCW client architecture ([S4aR220036](https://urldefense.com/v3/__https:/www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220036.zip__;!!Bt8RZUm9aw!-fxJDYeuyI0UW811TZGAijw_KgdbQNzgKn5KYlIxxVKu2mtXJlSwfCmL9MsRfoA390Piwhg00HcBTQejmw$)) |
| Telco #3 | 5 October, 2022 (06:00-08:00 CEST, Host: Qualcomm) | * Discussed protocol design of WebRTC signalling ([S4aR220041](https://urldefense.com/v3/__https:/www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220041.zip__;!!Bt8RZUm9aw!7JRCZhrQXB-ros_NHuDLVN06Puy-DKjFKenTF1c6nd5MSyo91PmpQTNFuYLFkNb7Y6eRhysECIqRUvqrTw$)) |
| Telco #4 | 19 October, 2022 (06:00-08:00 CEST, Host: Qualcomm) | * Agreed (into PD) applications of microphone description ([S4aR220043](https://urldefense.com/v3/__https:/www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220043.zip__;!!Bt8RZUm9aw!9G964HWg3FfZTdT6OwRuGZr5KXZgK8vXvMCR4qAq1j1tgOnyv2oKfdG8XETuIH5bAmGt-2BNUQaIs4K-UA$)) * Discussed 3D video types for iRTC client in the terminal ([S4aR220046](https://urldefense.com/v3/__https:/www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220046.zip__;!!Bt8RZUm9aw!9G964HWg3FfZTdT6OwRuGZr5KXZgK8vXvMCR4qAq1j1tgOnyv2oKfdG8XETuIH5bAmGt-2BNUQYQfDWH1g$)) * Discussed real-time metadata transport over data channel ([S4aR220053](https://urldefense.com/v3/__https:/www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220053.zip__;!!Bt8RZUm9aw!9G964HWg3FfZTdT6OwRuGZr5KXZgK8vXvMCR4qAq1j1tgOnyv2oKfdG8XETuIH5bAmGt-2BNUQarHjv4PA$)) * Discussed data channel sub-protocol registration ([S4aR220054](https://urldefense.com/v3/__https:/www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220054.zip__;!!Bt8RZUm9aw!9G964HWg3FfZTdT6OwRuGZr5KXZgK8vXvMCR4qAq1j1tgOnyv2oKfdG8XETuIH5bAmGt-2BNUQaeu4ABBQ$)) * Discussed signaling protocol for iRTCW ([S4aR220056](https://urldefense.com/v3/__https:/www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR220056.zip__;!!Bt8RZUm9aw!9G964HWg3FfZTdT6OwRuGZr5KXZgK8vXvMCR4qAq1j1tgOnyv2oKfdG8XETuIH5bAmGt-2BNUQZ378ZdvQ$)) |
| SA4#121 | 14-18 November, 2022 | * Updated skeleton of TS 26.113 ([S4-221275](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_121_Toulouse/Docs/S4-221275.zip)) * Updated WID for unique IDs assigned to related Rel-18 Wis ([S4-221278](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_121_Toulouse/Docs/S4-221278.zip)) * Discussed use case of multiple video sources in iRTC client ([S4-221265](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_121_Toulouse/Docs/S4-221265.zip)) * Discussed session management for multiple video sources with different zone allocations in iRTC client ([S4-221166](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_121_Toulouse/Docs/S4-221266.zip)) * Agreed (into PD) real-time metadata transport over data channel ([S4-221557](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_121_Toulouse/Docs/S4-221557.zip)) * Agreed (into PD) additions to size measurement of 3D objects in iRTCW ([S4-221546](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_121_Toulouse/Docs/S4-221546.zip)) * Agreed (into PD) iRTCW architecture for AR conferencing ([S4-221547](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_121_Toulouse/Docs/S4-221547.zip)) * Agreed (into PD) proposal for connection models to be used in iRTCW ([S4-221549](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_121_Toulouse/Docs/S4-221549.zip)) * Agreed discussion on versioning and delivery of WebRTC signalling for iRTCW ([S4-221560](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_121_Toulouse/Docs/S4-221560.zip)) |
| Telco #1 | 30 November, 2022 (15:00-17:00 CEST, Host: Qualcomm) | * Discussed WebRTC protocol stack ([S4aR23007](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR230007.zip)) |
| Telco #2 | 14 December, 2022 (15:00-17:00 CEST, Host: Qualcomm) | * Agreed (into PD) 3D avatar generation & operation for iRTC client in the terminal ([S4aR230011](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR230011.zip)) |
| Telco #4 | 1 February, 2023 (06:00-08:00 CEST, Host: Qualcomm) | * Discussed updated skeleton of TS 26.113 ([S4aR230023](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR230023.zip)) * Discussed signalling protocol for iRTCW ([S4aR230036](https://urldefense.com/v3/__https:/www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR230036.zip__;!!Bt8RZUm9aw!4pwmEGsUcKvak6BT6-y_qlcHKK-U3H-hGkykIjMltVsANXiH5vvJ-SsT2h2y4-OSmtSNHI_wJa8idl_KB6M$)) |
| SA4#122 | 20-24 February, 2023 | * Updated skeleton of TS 26.113 ([S4-230021](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230021.zip)) * Discussed OpenXR timed metadata transport over data channel ([S4-230072](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230072.zip)) * Discussed implementation of real-time V3C streaming for conversational scenario ([S4-230073](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230073.zip)) * Discussed RGBD transmission ([S4-230213](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230213.zip)) * Agreed (into PD) XR streaming use case ([S4-230389](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230389.zip)) * Agreed (into PD) APIs for AR conferencing ([S4-230319](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230319.zip)) * Agreed (into PD) signaling protocol ([S4-230344](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230344.zip)) * Agreed high-level architecture ([S4-230184](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230184.zip)) * Agreed protocol development way forward ([S4-230326](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_122_Athens/Docs/S4-230326.zip)) |
| Telco #1 | 15 March, 2023 (15:00-17:00 CET, Host: Qualcomm) | * Discussed updated skeleton of TS 26.113 ([S4aR230047](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR230047.zip)) * Discussed AR call solution for smartphones or tablets ([S4aR230048](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR230048.zip)) |
| Telco #2 | 29 March, 2023 (06:00-08:00 CET, Host: Qualcomm) | * Discussed functional components for iRTC client ([S4aR230058](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR230058.zip)) * Agreed (into PD) AR call solution for smartphones or tablets ([S4aR230060](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR230060.zip)) |
| SA4#123 | 17-21 April, 2023 | * Discussed functions for 3D representation ([S4-230526](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_123-e/Docs/S4-230526.zip)) * Discussed dynamic policy procedure ([S4-230668](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_123-e/Docs/S4-230668.zip)) * Agreed Simple WebRTC Application Protocol ([S4-230590](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_123-e/Docs/S4-230590.zip)) * Agreed functional components ([S4-230614](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_123-e/Docs/S4-230614.zip), [S4-230651](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_123-e/Docs/S4-230651.zip)) * Agreed (into PD) V3C pipeline for iRTC ([S4-230574](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_123-e/Docs/S4-230574.zip)) * Sent LS to CT WGs on iRTC signaling protocol ([S4-230667](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_123-e/Docs/S4-230667.zip)) |
| Telco #1 | 3 May, 2023 (16:00-18:00 CEST, Host: Qualcomm) | * Reviewed three re-drawn figures of SWAP ([S4aR230075](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR230075.zip)) * Discussed video format conversion ([S4aR230076](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_RTC/Docs/S4aR230076.zip)) |
| SA4#124 | 22-26 May, 2023 | * Update time and work plan * Agreed Updates to SWAP protocol ([S4-230980](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230980.zip)) * Discussed Video additions to draft TS 26.113 ([S4-230894](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_124_Berlin/Docs/S4-230894.zip)) |
| Telco #1 | July 12, 2023 (6:00 – 8:00 CEST, Host: Qualcomm) | * Submission deadline: July 10, 6:00 CEST |
| Telco #2 | August 9 , 2023 (16:00 – 18:00 CEST, Host: Qualcomm) | * Submission deadline: August 7, 6:00 CEST |
| SA#100 | 12-16 June, 2023 | * Share WI status and remaining schedule |
| SA4#125 | 21-25 August, 2023 | * Update time and work plan * Agree TS 26.113 V1.0.0 |
| 3GPP SA4 RTC SWG Telco #14 | October 11, 2023, 6:00 – 8:00 CEST, Host Qualcomm | * Update TS 26.113 * Submission deadline: October 9, 6:00 CEST |
| 3GPP SA4 RTC SWG Telco #15 | October 25 , 2023, 16:00 – 18:00 CEST, Host Qualcomm | * Update TS 26.113 * Submission deadline: October 23, 6:00 CEST |
| SA4#126 | 13-17 November, 2023, Chicago, US | * Update TS 26.113 * Agree TS 26.113 V1.0.0 |
| **3GPP SA4 RTC SWG Telco #16** | **December 6, 2023, 16:00 –18:00 CET, Host Qualcomm** | * Update TS 26.113 * Discuss on RTC-4 interaction * Confirm RTC media capabilities and profiles * Send LS to CT3/CT4 on PDU set marking * Submission deadline: December 4, 6:00 CET |
| SA#102 | 11-15 December, 2023 | * Present TS 26.113 V1.0.0 for information |
| **3GPP SA4 RTC SWG Telco #17** | **January 10 , 2024, 6:00 – 8:00 CET, Host Qualcomm** | * Update TS 26.113 * Discuss on RTC-4 interaction * Discuss on pCR to 26.510 * Send LS to CT3/CT4 on PDU set marking * Submission deadline: January 8, 6:00 CET |
| SA4#127 | Jan 29 – Feb 2, 2024, Sophia-Antipolis, France | * Complete TS 26.113 V2.0.0 * Complete permanent document * Agree TS 26.113 V2.0.0 * Endorse work item summary |
| **3GPP SA4 RTC SWG Telco #18** | February 21, 2024, 16:00 –18:00 CET, Host Qualcomm | * Finalization of dependency with common APIs in TS 26.510 * OpenAPI definition on RTC-specific APIs * Submission deadline: February 19, 6:00 CET |
| **3GPP SA4 RTC SWG Telco #19** | March 6, 2024, 6:00–8:00 CET, Host Qualcomm | * Finalization of dependency with common APIs in TS 26.510 * OpenAPI definition on RTC-specific APIs * Submission deadline: March 4, 6:00 CET |
| **3GPP SA4 RTC SWG Telco #20** | March 27, 2024, 16:00 –18:00 CET, Host Qualcomm | * Finalization of dependency with common APIs in TS 26.510 * OpenAPI definition on RTC-specific APIs * Submission deadline: March 25, 6:00 CET |
| **SA4#127-bis-e** | Apr 8 – Apr 12, 2024, e-Meeting | * Finalization of dependency with common APIs in TS 26.510 * OpenAPI definition on RTC-specific APIs |
| **SA4#128** | May 20 – May 24, 2024, Jeju, Korea | * Finalization of dependency with common APIs in TS 26.510 * OpenAPI definition on RTC-specific APIs * Complete TS 26.113 for SA approval * Endorse work item summary |
| **SA#104** | June 18 – June 21, China (TBD) | * Present TS 26.113 V2.0.0 for approval * Present work item summary |