**Source: MTSI SWG Chairman**[[1]](#footnote-1)

**Title: MTSI SWG Report during SA4#117-e**

## Document for: Approval Agenda Item: 13.3

Executive summary

The 3GPP SA4 MTSI SWG met for six telco sessions and also handled documents via the MTSI SWG email reflector during SA4#117-e.

A total of 35 delegates participated while 41 Tdocs were discussed with SWG-status concluded for 39 Tdocs. Below is a summary of what was agreed during this meeting.

Renaming the MTSI SWG to the Real-Time Communications (RTC) SWG

Others including TEI

* TS 26.114 CR to add per-slice QoE measurement
* TS 26.114 CR to clarify requirements for UE QoE measurement and reporting

ITT4RT

* TS 26.114 CR for Phase 2
  + dCR on Scene Description-based overlays
  + dCR on enabling regions in an overlay that can be occluded by other sources
  + A mega CR for all of the Phase 2 features
* TR 26.862
  + Update to include “conditional overlays” as a potential solution
  + Update to include a potential architecture extension based on NBMP
  + Update to indicate that scene description-based overlays is also a selected solution
  + Version 0.4.0 for sending to SA4 for approval then SA plenary
* TR 26.962
  + Update to include Scene Description-based overlays
  + Version 0.5.0 for sending to SA4 for approval then SA plenary

New Work Items

* New WID on immersive Real-time Communication for WebRTC
* New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC
* Scheduled a telco to continue discussion on Rel-18 WIDs
  + Date: 16 March 2022, Time 07:00-09:00 CET Host: Qualcomm
  + Contribution submission deadline: 23:59 CET, 14 March 2022
  + Draft WIDs under discussion include:
    - New WID on IMS-based AR Conversational Services (IBACS)
    - New WID on 5G Real-time Transport (5G\_RTP)
    - Potentially, new WID on Split Rendering MSE (SR\_MSE)
    - Draft WID on 5G media delivery architecture extensions for real-time and AR/MR experience

Real-time Text Conferencing

* Outgoing LS to SA1, GSMA, and ATIS seeking input on requirements

**The output documents from the MTSI SWG sessions are:**

**​​**

|  |  |  |
| --- | --- | --- |
| 5.3 | Other 3GPP Groups | **192n**  **102 -> reply in 254 (draft LS)** |
| 13 | Reports and general issues from sub-working-groups |  |
| 13.3 | MTSI SWG | **318** |
| 14 | CRs to features in Release 16 and earlier |  |
| 15 | Release 17 Features |  |
| 15.1 | ITT4RT (Support of Immersive Teleconferencing and Telepresence for Remote Terminals) | **269 (TR 26.962)**  **271 (TR 26.862)**  **270 (CR TS 26.114)**  **260 (WI Summary)** |
| 15.8 | TEI17 and any other Rel-17 documents | **262 (CR TS 26.114)**  **272 (CR 26.114)** |
| 19 | New Work / New Work Items and Study Items | **273 (iRTCW)**  **274 (FS\_eiRTCW)** |

**Agreed in MTSI SWG**

**No status in MTSI SWG**

SWG Minutes during SA4#117-e

## 12.1 Opening of the session

Mr. Nikolai Leung (Qualcomm, Chairman of MTSI SWG) opened the e-meeting sessions on February 15, and the Telco sessions at 22:35 CET on February 15.

The minutes are shared online here:

<https://docs.google.com/document/d/1DJgfz1KbsDp_r9rzHTLqLJnpg_3PIDJuXEqm41my_zc/edit?usp=sharing>

Bo Burman and Iraj Sodagar agreed to serve as the acting secretaries for the meeting.

**Draft Schedule for the MTSI SWG Telcos:**

**Tuesday February 15:**

11.1 Opening of the session

11.2 Registration of documents

11.3 Reports and liaisons from other groups: **102, 192**

11.4 CRs to Features in Release 16 and earlier: **122**

11.5 ITT4RT: **073, 074**

**Wednesday February 16:**

11.5 ITT4RT: **133, 153, 162, 163**

**Thursday February 17:**

11.5 ITT4RT Wash-up:

11.6 Others including TEI: **082->182, 187**

**Friday February 18:**

11.3 Wash-up: **254 (LS)**

11.5 ITT4RT Wash-up: **265, 264**

11.7 New Work / New Work Items and Study Items: **180, 081->261, 129, 130, 132, 179**

**Monday February 21:**

Wash-up

**Tuesday February 22:**

Wash-up

11.8 Any Other Business

11.9 Close of the session

## 11.2 Registration of documents

The following documents were registered before the meeting:

|  |  |  |  |
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| 11 | Multimedia Telephony Service for IMS (MTSI) SWG |  |  |
| 11.1 | Opening of the session |  |  |
| 11.2 | Registration of documents |  |  |
| 11.3 | Reports and liaisons from other groups | **A** | **102, 192** |
| 11.4 | CRs to Features in Release 16 and earlier | **A** | **122** |
| 11.5 | ITT4RT (Support of Immersive Teleconferencing and Telepresence for Remote Terminals) | **A** | **073, 074, 133, 153, 162, 163** |
| 11.6 | Others including TEI | **B** | **082->182**  **187** |
| 11.7 | New Work / New Work Items and Study Items | **B** | **180**  **iRTCW: 081**  **FS\_eiRTCW: 129, 130**  **IBACS: 132**  **5G\_RTP: 179** |
| 11.8 | Any Other Business |  |  |
| 11.9 | Close of the session |  |  |

The agenda and registration of documents was approved.

## 11.3 Reports and liaisons from other groups

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| --- | --- | --- |
| [**S4-220102**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220102.zip) | ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling | 3GPP MCC |

Sent for email discussion

|  |  |  |
| --- | --- | --- |
| [Re: [11.3, S4-220102, Block A, 15-Feb, 21:30 CET] ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;ccff4c55.2202C&S=) | Marcelo Pazos <mpazos@QTI.QUALCOMM.COM> | Tue, 15 Feb 2022 19:31:03 +0000 |
| [Re: [11.3, S4-220102, Block A, 15-Feb, 21:30 CET] ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;2a615d6.2202C&S=) | Bo Burman <bo.burman@ERICSSON.COM> | Tue, 15 Feb 2022 19:41:13 +0000 |
| [Re: [11.3, S4-220102, Block A, 15-Feb, 21:30 CET] ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;62547315.2202C&S=) | Kyunghun Jung <kyunghun@FB.COM> | Tue, 15 Feb 2022 19:57:48 +0000 |
| [Re: [11.3, S4-220102, Block A, 15-Feb, 21:30 CET] ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;deca4ebb.2202C&S=) | Marcelo Pazos <mpazos@QTI.QUALCOMM.COM> | Tue, 15 Feb 2022 20:03:50 +0000 |

|  |  |  |
| --- | --- | --- |
| [Re: [11.3, S4-220102, Block A, 15-Feb, 21:30 CET] ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;61b002d6.2202C&S=) | Marcelo Pazos <mpazos@QTI.QUALCOMM.COM> | Wed, 16 Feb 2022 23:08:54 +0000 |
| [Re: [11.3, S4-220102, Block A, 15-Feb, 21:30 CET] ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;aa83ecff.2202C&S=) | Stephane Ragot <stephane.ragot@ORANGE.COM> | Thu, 17 Feb 2022 11:08:15 +0000 |

|  |  |  |
| --- | --- | --- |
| [Re: [11.3, S4-220102, Block A, 15-Feb, 21:30 CET] ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;d4379a1f.2202C&S=) | Nikolai Leung | Fri, 18 Feb 2022 20:42:31 +0000 |

Presented by Nikolai Leung, Qualcomm

Discussion:

* Nik: Any concerns MTSI SWG develops a mega-CR for this?
* Bo: No concerns, but also want to, as said in the mail thread, study the requirements and how they apply.
* Kyunghun: Multiparty messaging is typically done by RCS
* Marcelo: Only deployment of RTT I know of is in North America and that is a different service than RCS. Also unclear how multi-party would apply.
* Stephane: Orange is also interested
* Igor: Also Nokia.
* Nik: Could we do this as TEI or do we need a WI? A WI would probably be most straightforward. Could someone draft that for the next meeting?
* Stephane: Would that not be premature? Should we not check requirements first and perhaps liaise with some other groups?
* Bo: I quickly looked at 3GPP requirements and there doesn’t seem to be any requirements for multi-party RTT. It seems we should check with SA1 first.
* Stephane: It could make sense to start with an LS to SA1 and GSMA.
* Igor: I support that.
* Kyunghun: I do too.
* Stephane: I can start drafting an LS for Friday Feb 18.
* Nik: Assign Tdoc 254 for the LS.

Decision: **Noted**.

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| [**S4-220254**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220254.zip) | LS to SA1 and GSMA on Requirements for RTT Conferencing | Orange, Ericsson, FaceBook, Nokia, Qualcomm |

Presented by Stéphane Ragot, Orange

Discussion:

* Nik: The document presented on screen is still a draft.
* Nik: Is there any particular group in ATIS that we should target?
* Stephane: Don’t know.
* Nik: I can check. I believe content is agreeable, just the possible ATIS subgroup is unclear.

Decision: Agreed without presentation

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| [**S4-220192**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_117-e/LS/LS_in/S4-220192.zip) | Incoming LS from MPEG on MPEG-I scene description | MPEG |

Sent for email discussion

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| --- | --- | --- |
| [Re: [11.3, S4-220192, Block A, 15-Feb, 21:30 CET] Incoming LS from MPEG on MPEG-I scene description](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;5e5a5e02.2202C&S=) | Imed Bouazizi <BOUAZIZI@QTI.QUALCOMM.COM> | Tue, 15 Feb 2022 15:04:46 +0000 |

Decision: **Noted**

## 11.4 CRs to Features in Release 16 and earlier

**Tuesday February 15**

|  |  |  |
| --- | --- | --- |
| [**S4-220122**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220122.zip) | CR-26.114 Add support of per-slice QoE measurement | Huawei, HiSilicon |

Sent for email agreement

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| --- | --- | --- |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;50d781f6.2202C&S=) | Gunnar Heikkilä <gunnar.heikkila@ERICSSON.COM> | Tue, 15 Feb 2022 14:33:53 +0000 |

|  |  |  |
| --- | --- | --- |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;13a7e956.2202C&S=) | Imed Bouazizi <BOUAZIZI@QTI.QUALCOMM.COM> | Tue, 15 Feb 2022 19:59:47 +0000 |

|  |  |  |
| --- | --- | --- |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;ea7e2068.2202C&S=) | panqi (E) <panqi8@HUAWEI.COM> | Tue, 15 Feb 2022 21:34:03 +0000 |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;379dab81.2202C&S=) | Gunnar Heikkilä <gunnar.heikkila@ERICSSON.COM> | Tue, 15 Feb 2022 22:20:04 +0000 |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;18814921.2202C&S=) | panqi (E) <panqi8@HUAWEI.COM> | Tue, 15 Feb 2022 22:41:09 +0000 |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;a0d7f6d4.2202C&S=) | panqi (E) <panqi8@HUAWEI.COM> | Tue, 15 Feb 2022 22:49:40 +0000 |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;9b1236d7.2202C&S=) | Gunnar Heikkilä <gunnar.heikkila@ERICSSON.COM> | Tue, 15 Feb 2022 23:21:51 +0000 |

|  |  |  |
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| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;127fb7e4.2202D&S=) | panqi (E) <panqi8@HUAWEI.COM> | Tue, 22 Feb 2022 08:03:11 +0000 |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;da598a8b.2202D&S=) | panqi (E) <panqi8@HUAWEI.COM> | Tue, 22 Feb 2022 09:38:16 +0000 |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;eb5c875a.2202D&S=) | Gunnar Heikkilä <gunnar.heikkila@ERICSSON.COM> | Tue, 22 Feb 2022 09:23:49 +0000 |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;d1997384.2202D&S=) | Gunnar Heikkilä <gunnar.heikkila@ERICSSON.COM> | Tue, 22 Feb 2022 10:06:48 +0000 |
| [Re: [11.4, S4-220122, Block A, 15-Feb, 21:30 CET] CR-26.114 Add support of per-slice QoE measurement](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;1707d047.2202D&S=) | panqi (E) <panqi8@HUAWEI.COM> | Tue, 22 Feb 2022 14:31:59 +0000 |

Decision: revised to 272

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| [**S4-220272**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220272.zip) | CR-26.114 Add support of per-slice QoE measurement | Huawei, HiSilicon |

Decision: Agreed without presentation

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

**Tuesday February 15**

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| --- | --- | --- |
| [**S4-220073**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220073.zip) | **Scene Description-based overlay support in ITT4RT** | **QUALCOMM Europe Inc. - Italy** |

Sent for email agreement

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| --- | --- | --- |
| [Re: [11.5, S4-220073, Block A, 15-Feb, 21:30 CET] Scene Description-based overlay support in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;c9f058a.2202C&S=) | Ahsan, Saba (Nokia - FI/Espoo) <saba.ahsan@NOKIA.COM> | Tue, 15 Feb 2022 16:48:10 +0000 |
| [Re: [11.5, S4-220073, Block A, 15-Feb, 21:30 CET] Scene Description-based overlay support in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;23b1a169.2202C&S=) | Bo Burman <bo.burman@ERICSSON.COM> | Tue, 15 Feb 2022 16:52:15 +0000 |
| [Re: [11.5, S4-220073, Block A, 15-Feb, 21:30 CET] Scene Description-based overlay support in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;414285e7.2202C&S=) | Srinivas Gudumasu <Srinivas.Gudumasu@INTERDIGITAL.COM> | Tue, 15 Feb 2022 17:14:55 +0000 |

|  |  |  |
| --- | --- | --- |
| [Re: [11.5, S4-220073, Block A, 15-Feb, 21:30 CET] Scene Description-based overlay support in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;9344e531.2202C&S=) | Imed Bouazizi <BOUAZIZI@QTI.QUALCOMM.COM> | Tue, 15 Feb 2022 20:19:20 +0000 |
| [Re: [11.5, S4-220073, Block A, 15-Feb, 21:30 CET] Scene Description-based overlay support in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;f52f1b8a.2202C&S=) | Imed Bouazizi <BOUAZIZI@QTI.QUALCOMM.COM> | Tue, 15 Feb 2022 20:24:56 +0000 |
| [Re: [11.5, S4-220073, Block A, 15-Feb, 21:30 CET] Scene Description-based overlay support in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;e6dc85.2202C&S=) | Srinivas Gudumasu <Srinivas.Gudumasu@INTERDIGITAL.COM> | Tue, 15 Feb 2022 20:38:05 +0000 |
| [Re: [11.5, S4-220073, Block A, 15-Feb, 21:30 CET] Scene Description-based overlay support in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;f8e411f9.2202C&S=) | Imed Bouazizi <BOUAZIZI@QTI.QUALCOMM.COM> | Tue, 15 Feb 2022 20:52:06 +0000 |

|  |  |  |
| --- | --- | --- |
| [Re: [11.5, S4-220073, Block A, 15-Feb, 21:30 CET] Scene Description-based overlay support in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;a166b81c.2202C&S=) | Ahsan, Saba (Nokia - FI/Espoo) <saba.ahsan@NOKIA.COM> | Wed, 16 Feb 2022 10:23:52 +0000 |

|  |  |  |
| --- | --- | --- |
| [Re: [11.5, S4-220073, Block A, 15-Feb, 21:30 CET] Scene Description-based overlay support in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;476f6169.2202C&S=) | Imed Bouazizi <BOUAZIZI@QTI.QUALCOMM.COM> | Thu, 17 Feb 2022 18:30:03 +0000 |

Presented by Imed Bouazizi, Qualcomm

Discussion:

* Imed: An r1 based on email commens is available in the drafts folder.
* Saba: I find “scene description based overlays” more clear than “scene based overlays”. Is it OK if I take some time to review r1 and the scene updates reference? I’ll send any comments I have.
* Imed: Yes, please read through. I wasn’t very clear on the comment from Interdigital.
* Srinivas: Are we sure that the 360 video space and the user viewing space are the same?
* Imed: You typically have the scene camera and have the 360 video. You place your scene camera somewhere in the center, where you produce views for left and right eyes. That allows for more advanced cases, like 6 DoF and even multiple cameras. You create your geometry and you have your scene camera.
* Srinivas: I think we can add a statement like that.
* Imed: For Bo’s comment, I believe it is correct that it is too restrictive to always require an http bootstrap data channel in clause 6.2.10 when there are other bootstrap protocols and we should relax that.
* Bo: Agree. When 6.2.10 was written the assumption was that all DC except bootstrap would be undefined subprotocol, implicitly defined by the HTML and JavaScript code from the bootstrap. This is another type of bootstrap with another specific subprotocol that was not in scope in current 6.2.10.
* Naotaka: Can I have an example of a scene update?
* Imed: If you for example add another overlay or add avatars in the future, it would be adding or removing nodes, or moving their positions.
* Naotaka: How would you control the motion of avatars?
* Imed: That would not be ITT4RT because that is just 3 DoF. This can be done through updates that are shared with others. Scenes allow for animation so avatars can be animated.

Decision: Revised to 255.

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| **S4-220255** | **Scene Description-based overlay support in ITT4RT** | **QUALCOMM Europe Inc. - Italy** |

Presented by Imed Bouazizi, Qualcomm

Discussion:

* Imed stated that comments from Nokia and Ericsson were addressed.
* Nokia confirmed that the implemented changes are okay.
* (the document is in the Draft folder, not in the Inbox)
* Ericsson commented that the “bootstrap data channel shall use a defined subprotocol, and should use HTTP”.

Decision: revised into 266

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| [**S4-220266**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220266.zip) | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy |

Decision: agreed.

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| --- | --- | --- |
| [**S4-220074**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220074.zip) | **Guidelines on Scene Description-based overlays** | **QUALCOMM Europe Inc. - Italy** |

Sent for email agreement

|  |  |  |
| --- | --- | --- |
| [Re: [11.5, S4-220074, Block A, 15-Feb, 21:30 CET] Guidelines on Scene Description-based overlays](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;d3158117.2202C&S=) | Bo Burman <bo.burman@ERICSSON.COM> | Tue, 15 Feb 2022 16:53:45 +0000 |
| [Re: [11.5, S4-220074, Block A, 15-Feb, 21:30 CET] Guidelines on Scene Description-based overlays](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;88f10be6.2202C&S=) | Ahsan, Saba (Nokia - FI/Espoo) <saba.ahsan@NOKIA.COM> | Tue, 15 Feb 2022 16:59:26 +0000 |

Presented by Imed Bouazizi, Qualcomm

Discussion:

* Saba: I didn’t understand the architecture diagram. Do we need to include it?
* Imed: This was meant to help explain the MPEG scene description but if it causes confusion maybe we shouldn’t include it. We can share the MPEG-I spec with those interested.

Decision: Revised to 256.

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| [**S4-220256**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220256.zip) | **Guidelines on Scene Description-based overlays** | **QUALCOMM Europe Inc. - Italy** |

Presented by Imed Bouazizi, Qualcomm

Discussion:

* Imed introduced the latest changes that should address the comments by Ericsson and Nokia.
* Nokia commented that the text is still making references to the removed architecture figure. Is that information relevant?
* Imed responded that not everything is relevant. The text was meant to give information on MPEG-I.
* Nokia would prefer that this text is not included.
* Imed said that the text will be removed.
* Ericsson confirms that they are ok with the text.
* (the document is in the Draft folder, not Inbox).

Decision: remove the first and last paragraph of section 6.1.3, and the word “also” from the second paragraph. Agreed to be incorporated in TR 26.962.

**Wednesday February 16**

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| [**S4-220133**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220133.zip) | **TR 26.862 V0.0.8** | **KPN N.V.** |

Sent for email agreement

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| [Re: [11.5, S4-220133, Block A, 16-Feb, 21:30 CET] TR 26.862 V0.0.8](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;ba559f8c.2202C&S=) | Ahsan, Saba (Nokia - FI/Espoo) <saba.ahsan@NOKIA.COM> | Wed, 16 Feb 2022 15:33:34 +0000 |
| [Re: [11.5, S4-220133, Block A, 16-Feb, 21:30 CET] TR 26.862 V0.0.8](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;db3dcab0.2202C&S=) | Gunkel, S.N.B. (Simon) <simon.gunkel@TNO.NL> | Wed, 16 Feb 2022 15:51:38 +0000 |
| [Re: [11.5, S4-220133, Block A, 16-Feb, 21:30 CET] TR 26.862 V0.0.8](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;d945a6ae.2202C&S=) | Nikolai Leung <nleung@QTI.QUALCOMM.COM> | Wed, 16 Feb 2022 16:37:42 +0000 |

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| [Re: [11.5, S4-220133, Block A, 16-Feb, 21:30 CET] TR 26.862 V0.0.8](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;b1a117b2.2202C&S=) | Gunkel, S.N.B. (Simon) | Wed, 16 Feb 2022 21:20:10 +0000 |

Decision: Revised into 257

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| [**S4-220257**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220257.zip) | **TR 26.862 V0.0.9** | **KPN N.V.** |

Presented by Simon Gunkel, KPN N.V.

Discussion:

* Naotaka: I can see the old template text. Maybe it is time to remove them, to make the document cleaner.
* Simon: Yes, that is the next thing.
* Saba: Are we targeting these TRs to be completed at the end of this meeting?
* Nik: Yes.

Decision: Agreed. Further updates to TR be made in new version in 258

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| [**S4-220258**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220258.zip) | **TR 26.862 V0.1.0** | **KPN N.V.** |

Presented by Simon Gunkel, K.P.N.

Discussion:

* Simon introduced the latest changes to the document: fixed the font and the NBMP section.
* Section 8 was also updated online to reflect the latest adoptions in section Y.6 to the Mega CR.
* NTT asked what information should we put in the history?
* Simon said that he will put some simple information.

Decision: the document will be updated into document 265.

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| [[11.5, S4-220133, Block A, 16-Feb, 21:30 CET] TR 26.862 V0.1.0](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;f62fc530.2202C&S=) | Gunkel, S.N.B. (Simon) | Thu, 17 Feb 2022 18:38:54 +0000 |

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| [**S4-220265**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220265.zip) | TR 26.862 V0.2.0 | KPN N.V. |

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| [[11.5, S4-220133, Block A, 16-Feb, 21:30 CET] TR 26.862 V0.2.0](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;bc123656.2202C&S=) | Gunkel, S.N.B. (Simon) | Fri, 18 Feb 2022 20:20:53 +0000 |

Presented by Simon Gunkel, KPN N.V.

Discussion:

* Igor: Did you check for the presence of “shall”, “should”, “must”, “is to be”, and also “recommend”
* Simon: No <checks on-screen and finds them
* Igor: Are the terms and definitions from TS 26.114?
* Simon: They are taken from the “mega-CR”.
* Simon: Is it just “shall” and “should”?
* Igor:I checked with Fred and it is valid for all that they cannot appear in a TR.
* Simon: From what I understand. “shall” and “must” is not OK, but “should”, “may”, and “can” are OK.
* Igor: I checked previously for TR 26.999. I removed several terms.
* Simon: I’ll check with Fred. What version?
* Nik: v0.3.0. I think the plenary will bump up the version to v1.0.0.
* Simon: I think not. They will accept or note it.
* Nik: Check with Fred.
* Saba: I checked and some of the terms are from the specification. Should we redefine them here?
* Nik: I guess we can define the terms that are used here. If there are terms that this TR doesn’t use, we can take them out.
* Simon: If there’s terminology that is used here that is also used in the TS, should we define it here too?
* Nik: I think we should have the TR self-contained, so OK to list them here.

Decision: Revised into 268, v0.3.0

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| [**S4-220268**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220268.zip) | **TR 26.862 V0.3.0** | **KPN N.V.** |

Presented by Simon Gunkel, KPN

Discussion:

* Simon: In this, I removed all “normative language”, according to 3GPP guidelines. I also removed all terms that were not used in this document.
* Nik: Yes, it should all be informative.
* Bo: I believe “For Further Study” must be abbreviated “FFS”, not “FSS”, in the abbreviations clause.
* Simon: OK, will change.
* Simon: Not sure that “might not” can be used? Perhaps a reformulation with “need not” has to be used instead.
* Jayeeta: I think it is OK. We’re still looking into the topic of “should” in a TR.
* Nik. I think the last text bullet before clause 6 may have lost its meaning in the reformulation. Is it “...over which the client is requested not to do a partial or full overlay rendering”? Maybe you can look at this offline?
* Simon: “Is not to” is equivalent to “shall not”, which we cannot use.

Decision: Revised into 271.

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| [**S4-220271**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220271.zip) | **TR 26.862 V0.4.0** | **KPN N.V.** |

Decision: Agreed without presentation.

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| [**S4-220153**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220153.zip) | **NBMP in ITT4RT** | **Nokia Corporation** |

Sent for email agreement

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| [Re: [11.5, S4-220153, Block A, 16-Feb, 21:30 CET] NBMP in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;876ed589.2202C&S=) | Imed Bouazizi <BOUAZIZI@QTI.QUALCOMM.COM> | Wed, 16 Feb 2022 18:02:15 +0000 |
| [Re: [11.5, S4-220153, Block A, 16-Feb, 21:30 CET] NBMP in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;5decdad6.2202C&S=) | Ahsan, Saba (Nokia - FI/Espoo) <saba.ahsan@NOKIA.COM> | Wed, 16 Feb 2022 18:35:51 +0000 |

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| [Re: [11.5, S4-220153, Block A, 16-Feb, 21:30 CET] NBMP in ITT4RT](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;9f3cfb78.2202C&S=) | Iraj Sodagar | Wed, 16 Feb 2022 21:55:00 +0000 |

Presented by Iraj Sodagar, Tencent Cloud

Discussion:

* Iraj: I recommend adding the text to 862 for further study before publishing it to the outside world.
* Saba: I’m OK with Iraj’s suggestion to put this in 862.
* Nik: Where do you want to put it?
* Saba: Maybe in potential solutions? Maybe in architecture?
* Iraj: We can add a new section 10, possible extensions? This is more an architecture extension or extension.
* Simon: A sub-clause to architecture, potential architecture extensions?
* Nik: It seems acceptable to put it under a new sub-clause 6.1 potential architecture extensions.
* Iraj: With 3GPP drafting rules, we then need the currently present text directly under clause 6 to go under clause 6.1. The new sub-clause will be 6.2.
* Simon: I’ll also change clause 7 accordingly.

Decision: Agreed for integration into TR 26.862 v0.1.0

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| [**S4-220162**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220162.zip) | **Changes to TS 26.114 for External source or occlusion-free overlays** | **Nokia Corporation, Tencent** |

Sent for email agreement

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| [Re: [11.5, S4-220162, Block A, 16-Feb, 21:30 CET]Changes to TS 26.114 for External source or occlusion-free overlays](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;501d2a57.2202C&S=) | Imed Bouazizi <BOUAZIZI@QTI.QUALCOMM.COM> | Wed, 16 Feb 2022 18:07:46 +0000 |

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| [Re: [11.5, S4-220162, Block A, 16-Feb, 21:30 CET]Changes to TS 26.114 for External source or occlusion-free overlays](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;df55141.2202C&S=) | Curcio, Igor (Nokia - FI/Tampere) <igor.curcio@NOKIA.COM> | Wed, 16 Feb 2022 19:04:27 +0000 |

Presented by Igor Curcio, Nokia

Discussion:

* Igor: I just added a space (“SP”) in the ABNF, and gave my view but want Iraj to comment as well.
* Iraj: If a 360 doesn’t want to have anything overlaid, it’s a property of the content saying that “I don’t have any area that can be overlaid”.
* Imed: I’m not sure I fully understand. If the flag is not there, you cannot use overlays?
* Iraj: No, if the flag is there, it says this is a suitable area.
* Imed: So this is only a suggestion?
* Iraj: Yes. If you put content there, you won’t visually lose anything. An implementation can ignore this flag entirely.
* Imed: Occludable\_region?
* Iraj: Perhaps that is better.
* Iraj: Further, I don’t think it will be usable if the ROI changes for every frame.
* Imed: I was thinking of this occludable area. Say that the back of a conference room is not really important. The 360 camera can be panned, zoomed.
* Iraj: It cannot be changing very frequently. Then you need to send multiple SDP updates.
* Imed: If changing, it would be better suited as a video SEI or similar.
* Iraj: If it is rather static, it can be in SDP.
* Naotaka: I had the same problem. Maybe we can use occlusion-free but then define the name in the beginning.
* Imed: I think the current definition sounds like the opposite to what we want. Occludable is at least a word used in medicin.
* Iraj: I agree.
* Nik: occludable\_overlays?
* Igor: I’d like to keep “externalsource” as well.
* Nik: Why do we have to keep that too?
* Igor: It is a double function of this attribute.
* Nik: Can’t we just describe that in text instead of making such a long name?
* Igor: Yes. I also thought that the name was perhaps long. We could perhaps also think of an acronym?
* Iraj: A human-readable term is easier to remember. free\_overlays?

Decision: Revised to 259.

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| [**S4-220259**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220259.zip) | **Changes to TS 26.114 for External source or occlusion-free overlays** | **Nokia Corporation, Tencent** |

Presented by Igor Curcio, Nokia.

Discussion:

* No comments were received.

Decision: agreed to be added to the mega CR for ITT4RT.

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| [**S4-220163**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220163.zip) | **TR 26.962 v. 0.3.0** | **Nokia Corporation** |

Sent for email agreement

​​Not having received any comments on this, the Tdoc is agreed in the MTSI SWG.

Decision: Agreed

**Thursday February 17**

**Friday February 18**

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| [**S4-220260**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220260.zip) | **Work Item Summary for ITT4RT** | **Nokia Corporation** |

Not treated.

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| [**S4-220263**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220263.zip) | CR on ITT4RT Phase 2 Features | Nokia Corporation, Tencent,KPN N.V., Samsung, Qualcomm Incorporated |

Presented by Igor Curcio, Nokia

Discussion:

* Nik: There seems to be several “FFS” - did we decide to keep them in a normative specification?
* Igor: I think we should remove them.
* Kyunghun: Agree, they should be removed.
* Bo: Is the removal of “a=bw-info” ABNF in clause 19.3.2 correct? I cannot seem to find it elsewhere.
* Igor: I will check that it is not a mistake.

Decision: Revised into 270.

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| [**S4-220270**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220270.zip) | CR on ITT4RT Phase 2 Features rev 1 | Nokia Corporation, Tencent,KPN N.V., Samsung, Qualcomm Incorporated |

Presented by Igor Curcio, Nokia

Discussion:

* Igor: I haven’t found any CR with the removed ABNF from clause 19.3.2, but tracked it to SA4#116-e and will dig a bit deeper on the source document. If I don’t find a source document, I will assume it was removed by mistake.
* Iraj: I can also check offline.
* Tomas: The source should be “Ericsson LM”, not just “Ericsson”
* Saba: The figures Y.1 and Y.2 have missing text; do you want to fix this or leave as is? I think the same problem is in TS 26.114. Should we fix it?
* Nik: Could we do an editorial CR later?
* Igor: Yes.
* Nik: We note that, in addition to these changes, there might be another revision during closing SA4 plenary reinstating the supposedly mistakenly deleted text in 19.3.2. Suggest we agree to it here and request a new version for the closing plenary if the 19.3.2 is resolved by then.

Decision: Agreed.

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| [**S4-220264**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220264.zip) | TR 26.962 v. 0.4.0 | Nokia Corporation |

Presented by Igor Curcio, Nokia

Discussion:

* Igor: I changed wording for the normative words to avoid in a TR I also added two references that were missing in the last contribution from Imed.
* Nik and Igor: <jointly find a few remaining editorial nits on-screen>

Decision: Revised into 269 (v0.5.0).

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| [**S4-220269**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220269.zip) | TR 26.962 v. 0.5.0 | Nokia Corporation |

Decision: Agreed without presentation

## 11.6 Others including TEI

**Thursday February 17**

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| [**S4-220082**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220082.zip) | Splitting TS 26.114 into Multiple Documents | Facebook |

Revised into 182

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| [**S4-220182**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220182.zip) | Splitting TS 26.114 into Multiple Documents | Facebook |

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| [Re: [11.6, S4-220182, Block B, 17-Feb, 21:30 CET] Splitting TS 26.114 into Multiple Documents](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;8f236220.2202C&S=) | Kyunghun Jung <kyunghun@FB.COM> | Thu, 17 Feb 2022 00:20:03 +0000 |
| [Re: [11.6, S4-220182, Block B, 17-Feb, 21:30 CET] Splitting TS 26.114 into Multiple Documents](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;1e704e09.2202C&S=) | Curcio, Igor (Nokia - FI/Tampere) <igor.curcio@NOKIA.COM> | Thu, 17 Feb 2022 20:33:39 +0000 |

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| [Re: [11.6, S4-220182, Block B, 17-Feb, 21:30 CET] Splitting TS 26.114 into Multiple Documents](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;7147f46a.2202C&S=) | Kyunghun Jung <kyunghun@FB.COM> | Thu, 17 Feb 2022 20:47:01 +0000 |

Presented by Kyunghun Jung, Facebook

Discussion:

* It was commented that for EVS there was a function that allowed a single PDF production (done by MCC).
* Kyunghun volunteered to produce a single PDF for each new version. A separate directory will be created in the 3GPP ftp site.
* What’s the size of the each part?
* It depends on how many figures there are. It would also be good to cut the parts to an integer clause number (e.g., avoiding to split at section 4.3.4.2.1).
* Kyunghun will look at the EVS spec and give a recommendation on the average number of pages to target for each part.

Decision: revised to 267.

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| [**S4-220267**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220267.zip) | Splitting TS 26.114 into Multiple Documents | Facebook |

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| [Re: [11.6, S4-220182, Block B, 17-Feb, 21:30 CET] Splitting TS 26.114 into Multiple Documents](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;e6cf5a46.2202C&S=) | Kyunghun Jung | Fri, 18 Feb 2022 01:36:24 +0000 |
| [Re: [11.6, S4-220182, Block B, 17-Feb, 21:30 CET] Splitting TS 26.114 into Multiple Documents](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;e1b2b5a1.2202C&S=) | Curcio, Igor (Nokia - FI/Tampere) | Fri, 18 Feb 2022 15:53:38 +0000 |
| [Re: [11.6, S4-220182, Block B, 17-Feb, 21:30 CET] Splitting TS 26.114 into Multiple Documents](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;b3f0708c.2202C&S=) | Kyunghun Jung | Fri, 18 Feb 2022 16:22:56 +0000 |

Presented by Kyunghun Jung, Samsung

Discussion:

* Nik: Does anyone have a position? <none>. Suggest to postpone it until SA4#118-e..

Decision: Noted.

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| [**S4-220187**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220187.zip) | Requirement on UE Behavior regarding QoE Measurement and Reporting (late) | Qualcomm Incorporated |

No comments received via email.

Decision: Revised into 262 to make a formal CR.

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| [**S4-220262**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220262.zip) | Requirement on UE Behavior regarding QoE Measurement and Reporting | Qualcomm Incorporated |

Decision: Agreed without presentation.

## 11.7 New Work / New Work Items and Study Items

**Friday February 18**

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| [**S4-220180**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220180.zip) | **Considerations for R18 work in SA4** | **Nokia Corporation** |

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| [Re: [11.7, S4-220180, Block B, 18-Feb, 21:30 CET] Considerations for R18 work in SA4](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;d689da02.2202C&S=) | Nikolai Leung | Fri, 18 Feb 2022 00:10:02 +0000 |
| [Re: [11.7, S4-220180, Block B, 18-Feb, 21:30 CET] Considerations for R18 work in SA4](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;77191f03.2202C&S=) | Kyunghun Jung | Fri, 18 Feb 2022 01:13:03 +0000 |
| [Re: [11.7, S4-220180, Block B, 18-Feb, 21:30 CET] Considerations for R18 work in SA4](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;527083fb.2202C&S=) | Curcio, Igor (Nokia - FI/Tampere) | Fri, 18 Feb 2022 15:42:36 +0000 |

Presented by Igor Curcio, Nokia

Discussion:

* Igor: One of the discussions was if we should copy text from TS 26.114 or just reference. Nik answered that we should use references to get a more compact text and easier to keep the documents in sync. The second factor was how to deal with common parts between an IMS-based and non-IMS-based instantiations. We should make it more horizontal. One of those common parts could be RTP. The third part was to agree on how to deal with the objectives and the common maturity of the WIDs/SIDs. For the iRTC work, there was a preference to not delay the start of the work. There are two extremes, one to await all WID/SID and the other to start work as soon as possible.
* Naotaka: What is the conclusion on the second point?
* Igor: A reference. There should be one document only.
* Nik: Yes, as much as possible have one document. RTP could be one part. Another possibility could be QoS, but there might be different models. For QoE, the metrics could be in a common place but how to send them could be different. There are QoE metrics in MeCAR. If there are differences in how to send it could be in the separate specs.
* Naotaka: I can agree to that principle.
* Bo: Is there a conclusion on how to handle WID/SID maturity?
* Nik: I think we can move a few of the more mature ones further and take the others in batches.
* Igor: I think we cannot do everything and make them start at the same time. We should do our best to remove the overlaps and have unique objectives.
* Kyunghun: Thank you for the effort to remove unclarities and overlaps.
* Nik: I think this is agreeable as a working assumption.

Decision: Noted.

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| [**S4-220081**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220081.zip) | **Draft New WID on immersive Real-time Communication for WebRTC** | **Facebook** |

**Revised into 261**

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| [**S4-220261**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220261.zip) | **Draft New WID on immersive Real-time Communication for WebRTC** | **Facebook** |

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| --- | --- | --- |
| [Re: [11.7, S4-220261, Block B, 18-Feb, 21:30 CET] Draft New WID on immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;ec7368f2.2202C&S=) | Curcio, Igor (Nokia - FI/Tampere) | Fri, 18 Feb 2022 17:45:19 +0000 |
| [Re: [11.7, S4-220261, Block B, 18-Feb, 21:30 CET] Draft New WID on immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;85756c48.2202C&S=) | Kyunghun Jung | Fri, 18 Feb 2022 18:14:32 +0000 |
| [Re: [11.7, S4-220261, Block B, 18-Feb, 21:30 CET] Draft New WID on immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;3555cf1a.2202C&S=) | Curcio, Igor (Nokia - FI/Tampere) | Fri, 18 Feb 2022 18:53:29 +0000 |
| [Re: [11.7, S4-220261, Block B, 18-Feb, 21:30 CET] Draft New WID on immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;10da5d50.2202C&S=) | Kyunghun Jung | Fri, 18 Feb 2022 19:15:25 +0000 |
| [Re: [11.7, S4-220261, Block B, 18-Feb, 21:30 CET] Draft New WID on immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;73183fdd.2202C&S=) | Nikolai Leung | Fri, 18 Feb 2022 19:53:40 +0000 |
| [Re: [11.7, S4-220261, Block B, 18-Feb, 21:30 CET] Draft New WID on immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;6612945.2202C&S=) | Kyunghun Jung | Fri, 18 Feb 2022 20:22:42 +0000 |

Presented by Kyunghun Jung, Facebook

Discussion:

* Fabrice: Will “immersive audio” be based on IVAS requirements?
* Kyunghun: It will only use the input types and make a compact and consistent description on how media is captured. A stereo microphone capture description doesn’t depend on any codec type.
* Nik: Can you clarify?
* Kyunghun: It is described in Objective 3. It is codec-agnostic.
* Nik: Shouldn’t IVAS mentioned under Objective 2 be under 3 instead.
* Stëphane: There’s no need to repeat acoustic requirements, better just point to ATIAS. If it is not clear, maybe we should say that, as in TS 26.114 we point to TS 26.131/132. I think the only spatial audio codec under consideration is IVAS and it becomes what IVAS is going to deliver.
* Nik: I heard the ATIAS acoustic requirements and the IVAS input and output requirements.
* Stéphane: In clause 3 near the end, maybe we can start with saying that the work will rely on audio inputs/outputs considered for IVAS and the audio quality requirements and immersive audio quality tests defined in the context of ATIAS. <editing on-screen>
* Nik: What would it mean to “rely on”?
* Stéphane: Maybe “reference”?
* Nik: “align”?
* Stéphane: Align is good.
* Naotaka: Objective 3 main focus is what kind of input we foresee. It doesn’t say anything about output. To what extent will this WI define the relationship with the codec?
* Kyunghun: It will have no relationship. It is generic.
* Naotaka: That’s fine.
* Nik: In objective 2 is it “taking into account” IVAS and ATIAS
* Stéphane: Move the new statement from clause 3 into an objective. <moving text from clause 3 into objective 2 on-screen>
* Fabrice: I’m concerned that it is said to be codec-agnostic and yet we have IVAS. So, we cannot have anything other than IVAS?
* Stéphane: Maybe it is good to have it codec-agnostic, but I’m not aware we have anything other than IVAS. These are very generic input and output formats, in general.
* Nik: If there are other input/output than the ones considered in IVAS, they can also be considered.
* Stéphane: There may be concerns that IVAS is so far unknown, but there are also concerns to have many codecs and have to handle transcoding and such.
* Nik: I think that discussion has to happen in MeCAR. Here, we’re keeping the door open to comes out of MeCAR.
* Chris: Could you say that you leverage what is done in that other group?
* Fabrice: That’s OK.
* Tomas: On MeCAR, it was focusing on edge architecture, is it only for such architectures?
* Nik: MeCAR is for AR services regardless if it is edge or conversational. I’m happy to go back and fix that.
* Naotaka: MeCAR is not only edge but AR-specific. If a service is not “AR” but still “immersive”, where is that other XR-type media defined? I fully support that we should avoid duplication and we should have a single specification, but just relying on MeCAR might not be enough. Is MeCAR AR-specific? This should be clarified.
* Nik: I’m not sure how to handle VR. There may be a little gap in that VR codecs have no home yet.
* Naotaka: Yes, the gap should not be there.
* Nik: I still like modularizing such that the codec is not defined here but in another spec.
* Igor: Should we park the discussion?
* Nik: There’s also the 5G\_RTP WI discussion.
* Igor: I can see in the first bullet here “media handling and adaptation”; what to do with that?
* Kyunghun: That may deploy some protocols that are not RTP.
* Igor: Should you then say non-RTP adaptation and non-RTP transport?
* Stéphane: TS 26.114 just reference RTP payload formats.
* Nik: Clearly, payload formats would not be part of that WID, that would be in MeCAR. The RTP parts that are not specific to a codec would be in 5G\_RTP. Not all of WebRTC is non-RTP, so there could still be common parts.
* Igor: What’s the relation between this WI and IMS? Is it a way to open a backdoor for traffic that is not regulated by an operator?
* Nik: 5GMS is not IMS-based but there’s still a way to work with 5G service-based architecture.
* Igor: 5GMS did a lot of work with architecture, but I don’t see that here.
* Nik: The idea was to extend the 5GMS thinking to not just streaming.
* Igor: Do we have plans to have such an architecture specification here too - I didn’t see that so far?
* Nik: The idea is to look at the 5GMS media handler and introduce similar approach here.
* Milan: This is related to Naotaka; to me the AR and XR are sometimes synonyms, sometimes not. Maybe this is unclear.
* Nik: My understanding of MeCAR is that it is specific to the form factor of AR glasses. I get the point, VR is falling between the chairs.
* Song XU: After reviewing the objectives are peer-to-peer, do we intend to extend to multiple participants?
* Kyunghun: Yes, in MTSI we made p2p and then extended it to multiple participants and we can do the same here.
* Naotaka: When do we stop sending emails and when do we resume? Please send guidance to the email reflector.
* Nik: We’re not going to make any decisions in emails sent over the weekend.
* <Mail discussion, revisiting the draft updated document, r3, Tuesday Feb 22>
* Kyunghun: The document is cleaned up and references MeCAR and 5G-RTP.
* Srinivas: In the third bullet of objective 2, is it supporting immersive media in data channel? Are you assuming immersive media data?
* Kyunghun: The data channel must be general.
* Srinivas: Can we say “...immersive media data via WebRTC-based…”?
* Stéphane: Until recently WebRTC supported only stereo and it seems we have to double-check if it is possible to natively support immersive media in WebRTC. It would be good to clarify.
* Kyunghun: We defer any codec to MeCAR and assume functions are specified by other specifications.
* Stéphane: I think this bullet should say “...media data (based on MeCAR)”.
* Stefan D: What is meant by “media or data” in that bullet?
* Srinivas: Media can be sent either via RTP as normal media or via data channel.
* Stefan D: Is WebRTC-based media “immersive” or not? That is outside of 3GPP control.
* Stéphane: That was also my question and we now got that it is from MeCAR.
* Stefan D: Is it from WebRTC or elsewhere?
* Stéphane: Maybe a general statement would help.
* Stefan D: Maybe also remove “WebRTC-based”?
* Kyunghun: We allow any MTSI or WebRTC-based media from MeCAR.
* Stephane: Phrase it as “...media based on MeCAR or via WebRTC data channel”?
* Srinivas: OK.
* Stefan D: Fine for me.

Decision: Revised into 273.

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| [**S4-220273**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220273.zip) | **Draft New WID on immersive Real-time Communication for WebRTC** | **Facebook** |

Decision: Agreed without presentation.

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| [**S4-220129**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220129.zip) | **Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC** | **NTT** |

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| [答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;b75d5c43.2202C&S=) | Sunzhao(Sunny) | Fri, 18 Feb 2022 03:32:03 +0000 |
| [Re: 答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;c9c5a5e7.2202C&S=) | Naotaka Morita | Fri, 18 Feb 2022 05:18:02 +0000 |

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| [答复: 答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;af1e7944.2202C&S=) | Sunzhao(Sunny) | Fri, 18 Feb 2022 11:46:25 +0000 |

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| [Re: 答复: 答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;4368292b.2202C&S=) | Curcio, Igor (Nokia - FI/Tampere) | Fri, 18 Feb 2022 14:04:35 +0000 |

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| [Re: 答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;4a3c44f2.2202D&S=) | Naotaka Morita <naotaka.morita@NTT-AT.CO.JP> | Tue, 22 Feb 2022 03:00:22 +0000 |

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| 答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | Sunzhao(Sunny) <sunzhao@HUAWEI.COM> | Fri, 18 Feb 2022 03:32:03 +0000 |
| Re: 答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | Naotaka Morita <naotaka.morita@NTT-AT.CO.JP> | Fri, 18 Feb 2022 05:18:02 +0000 |
| Re: 答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | Rihito Suzuki <rihito.suzuki.sn@HCO.NTT.CO.JP> | Mon, 21 Feb 2022 15:06:41 +0900 |
| Re: 答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | Stephane Ragot <stephane.ragot@ORANGE.COM> | Mon, 21 Feb 2022 13:16:14 +0000 |
| Re: 答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | Kyunghun Jung <kyunghun@FB.COM> | Mon, 21 Feb 2022 15:17:01 +0000 |
| Re: 答复: [11.7, S4-220129, Block B, 18-Feb, 21:30 CET] Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | Naotaka Morita <naotaka.morita@NTT-AT.CO.JP> |  |

Presented by Naotaka Morita, NTT

Discussion:

* Stéphane: On Objectives 2, 7, and 8, there seems to be a lot of redundancy with other work items. It is all related to enhancements of something that is not available yet.
* Naotaka: The assumption is around architecture, building on iRTCW. It is true that we need a closer look at 5G\_RTP as well.
* Kyunghun: I think we can move the advanced part of iRTCW to this study item.
* Nik: Previously we tried to put the more advanced topics into a study. There could be some things to leverage from 5G\_RTP, but not all advanced aspects like adaptation ongoing in, e.g., SA2 would be available in time for iRTCW and it could be studied here.
* Stéphane. The objectives 7 and 8 seem a bit different and unrelated to the rest. What is the reason for that?
* Nik: Qualcomm is interested in those. For the tethered use cases, how to you establish end-to-end QoS? SmartAR will start to look at tethered use cases and we want to amend that with QoS here. The other extension is for non-5G links, like when one end is not using 5G but WiFi.
* Stéphane: Thank you, that’s very clear. Since it is a very large study, would it make sense to split it into two?
* Nik: If we didn’t have so many studies in MTSI SWG, we could consider splitting. It’s not unheard of to have studies with multiple objectives.
* Stéphane: Could we have two parts, one with interworking and C-plane parts, and the other part with the rest?
* Naotaka: Thank you, it depends on the results of the initial studies. Once that is done, we can consider splitting or consider additional boxes. It is a bit hard to split into phases at the very beginning.
* Nik: I believe the proponents are interested in more supporters.
* Igor: There’s also document 126 (5G\_AREA) that has been going through modifications. It was initially discussed in video, being a mix of conversational and streaming. Then, streaming was removed and only conversational remains. It would be good if MTSI SWG can look at it.
* Nik: I’ll put it into our agenda tomorrow. All official comments should still go to Video SWG, as individual company comments. Everyone is encouraged to read the WID.
* Igor: I would like to see that MTSI SWG participants are also given the chance to read and discuss.
* <mail discussion>
* Naotaka: There’s a new statement to protect third-party access to that operator-assisted WebRTC network. SA6 is now also mentioned. Tencent is added as a supporting company.
* Stéphane: Orange would also like to co-sign.
* Simon: KPN would also like to co-sign.
* Eric: Samsung would also like to co-sign.

Decision: Revised into 274

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| [**S4-220274**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220274.zip) | **Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC** | **NTT** |

Decision: Agreed without presentation.

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| [**S4-220130**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220130.zip) | **Proposal of “WebRTC with Operator’s Assistance”** | **NTT** |

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| [Re: [11.7, S4-220130, Block B, 18-Feb, 21:30 CET]](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;7e14f90b.2202C&S=) | Rihito Suzuki | Fri, 18 Feb 2022 13:42:51 +0900 |
| [Re: [11.7, S4-220130, Block B, 18-Feb, 21:30 CET]](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;5558f7b9.2202C&S=) | Nikolai Leung | Fri, 18 Feb 2022 06:42:30 +0000 |
| [Re: [11.7, S4-220130, Block B, 18-Feb, 21:30 CET]](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;953ca59f.2202C&S=) | Imed Bouazizi | Fri, 18 Feb 2022 18:08:29 +0000 |

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| [Re: [11.7, S4-220130, Block B, 18-Feb, 21:30 CET]](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;7be07301.2202C&S=) | Rihito Suzuki <rihito.suzuki.sn@HCO.NTT.CO.JP> | Mon, 21 Feb 2022 15:21:53 +090 |

Presented by Rihito Suzuki, NTT

Discussion:

* Nik: In OTT and iRTCW, a 3rd party provider can get QoS via NEF?
* Naotaka: Yes.
* Nik: I think the FS\_eiRTCW can be useful for smaller WebRTC developers / providers that don't have the backend. It provides a more “slow-start-small-scale” approach where operators like NTT can play a role.
* Naotaka: In NTT we have a growing number of divisions that look like “OTT” and this common C-Plane can assist them too. We don’t want to ignore iRTCW or IBACS, so we want to keep them too and have interworking. <Showing draft 129rev2 from Inbox folder on screen>

Decision: Noted.

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| [**S4-220132**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220132.zip) | **New WID on IMS-based AR Conversational Services (IBACS)** | **KPN N.V.** |

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| [Re: [11.7, S4-220132, Block B, 18-Feb, 21:30 CET] New WID on IMS-based AR](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;30b7910a.2202C&S=)  [Conversational Services (IBACS)](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;30b7910a.2202C&S=) | Nikolai Leung | Fri, 18 Feb 2022 00:24:34 +0000 |
| [Re: [11.7, S4-220132, Block B, 18-Feb, 21:30 CET] New WID on IMS-based AR Conversational Services (IBACS)](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;d4c2bbb5.2202C&S=) | HU, JAMES | Fri, 18 Feb 2022 00:46:51 +0000 |
| [Re: [11.7, S4-220132, Block B, 18-Feb, 21:30 CET] New WID on IMS-based AR Conversational Services (IBACS)](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;c58e3858.2202C&S=) | Stephane Ragot | Fri, 18 Feb 2022 12:25:08 +0000 |

Discussion:

* Srinivas: Please add InterDigital as supporters in the next revision.

Decision: Noted.

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| [**S4-220179**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220179.zip) | **Draft WID on 5G Real-time Transport** | **QUALCOMM Europe Inc. - Spain** |

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| [Re: [11.7, S4-220179, Block B, 18-Feb, 21:30 CET] Draft WID on 5G Real-time Transport](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;bf5e37e7.2202C&S=) | Curcio, Igor (Nokia - FI/Tampere) | Fri, 18 Feb 2022 14:31:40 +0000 |
| [Re: [11.7, S4-220179, Block B, 18-Feb, 21:30 CET] Draft WID on 5G Real-time Transport](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;76df42c2.2202C&S=) | Stephane Ragot | Fri, 18 Feb 2022 14:36:26 +0000 |
| [Re: [11.7, S4-220179, Block B, 18-Feb, 21:30 CET] Draft WID on 5G Real-time Transport](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;313ecac2.2202C&S=) | Nikolai Leung | Fri, 18 Feb 2022 20:01:35 +0000 |
| [Re: [11.7, S4-220179, Block B, 18-Feb, 21:30 CET] Draft WID on 5G Real-time Transport](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;ed4a1de9.2202C&S=) | Nikolai Leung | Fri, 18 Feb 2022 20:05:02 +0000 |
| [Re: [11.7, S4-220179, Block B, 18-Feb, 21:30 CET] Draft WID on 5G Real-time Transport](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;75d20f8d.2202C&S=) | Curcio, Igor (Nokia - FI/Tampere) | Fri, 18 Feb 2022 20:36:15 +0000 |

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| [Re: [11.7, S4-220179, Block B, 18-Feb, 21:30 CET] Draft WID on 5G Real-time Transport](https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_SA_WG4_MTSI;b6bc52aa.2202C&S=) | Thomas Stockhammer <tsto@QTI.QUALCOMM.COM> | Mon, 21 Feb 2022 14:28:30 +0000 |

Presented by Nikolai Leung, Qualcomm

Discussion:

* Nik: Nokia has commented that this could be included in the IBACS WID. The 5G RTP is a transport protocol that could be used for many services.
* Iraj: I’d like to hear Igor’s argument to have it as part of IBACS. Having an independent spec would make it more versatile.
* Nik: In either case, it would be a separate spec. It’s a matter of whether it would be a separate WID or not.
* Igor: My reasoning would be to have less bureaucracy. Either way would be fine, I was just worried about the administration.
* Iraj: Would you have separate editors or same editor for the two specs?
* Nik: Separate editors.
* Iraj: Is there some other concern with having a separate WID? It’s also easier to know where a submission is targeted.
* Srinivas: Add InterDigital as co-signer
* Bo: Add Ericsson LM as co-signer
* Igor: Add Nokia as co-signer
* Eric: Add Samsung as co-signer
* Kyunghun: Add Facebook as co-signer
* Simon: Add KPN as co-signer
* Iraj: Add Tencent as co-signer

Decision: Revised into 275.

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| [**S4-220275**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220275.zip) | **Draft WID on 5G Real-time Transport** | **QUALCOMM Europe Inc. - Spain** |

Decision: Noted.

## 11.8 Any Other Business

The SWG agreed to scheduled a Telco for

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| **Telco on Rel-18 WID/SID planning**  **Date: 16 March 2022, Time 07:00-09:00 CET Host: Qualcomm** | * **Continue to review Rel-18 Work Item and Study Item Proposals** * **Agree on Draft WIDs and SIDs** * **Contribution submission deadline: 23:59 CET, 14 March 2022** |

The SWG agreed to the proposal to change the name of the SWG to the “Real-Time Communications (RTC)” SWG.

## 11.9 Close of the session

The MTSI SWG Chair closed the session at 23:34 CET on February 22, 2022.

# Annex A: Meeting Agenda

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| **11** | **Multimedia Telephony Service for IMS (MTSI) SWG** |  |
| **11.1** | **Opening of the session** |  |
| **11.2** | **Registration of documents** |  |
| **11.3** | **Reports and liaisons from other groups** | **102n, 192n**  **254 (draft LS)** |
| **11.4** | **CRs to Features in Release 16 and earlier** | **122->272awp** |
| **11.5** | **ITT4RT (Support of Immersive Teleconferencing and Telepresence for Remote Terminals)** | **073->255->266a (dCR), 074->256a (TR 26.962), 133->257a, 153a, 162->259a (dCR),**  **163a (TR 26.962)**  **258 (TR 26.862)-> 265->268->271awp**  **260 (WI Summary)nt**  **263 (CR)-> 270a**  **264 (TR 26.962)->269awp** |
| **11.6** | **Others including TEI** | **082->182->267n**  **187->262a** |
| **11.7** | **New Work / New Work Items and Study Items** | **180n**  **iRTCW: 081->261->273awp**  **FS\_eiRTCW: 129->274awp, 130n**  **IBACS: 132n**  **5G\_RTP: 179->275n** |
| **11.8** | **Any Other Business** |  |
| **11.9** | **Close of the session** |  |

Sent for email discussion

# Annex B: List of participants

35 delegates attended

## Self-registration attendance list

If you are attending, please remove the underline if your name is listed. Otherwise please add your name and organization to the list.

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| **Name** | **Organization Represented** |
| Ahsan, Saba | Nokia |
| Bouazizi, Imed | Qualcomm |
| Bruhn, Stefan | Dolby |
| Burman, Bo | Ericsson LM |
| Chen, Lulin | MediaTek |
| Curcio, Igor | Nokia |
| Döhla, Stefan | Fraunhofer IIS |
| Gudumasu, Srinivas | InterDigital |
| Gunkel, Simon | KPN N.V. |
| Han, Jae-Shin | LG Electronics Inc. |
| Jelinek, Milan | VoiceAge Corporation |
| Jung, Kyunghun | Facebook |
| Leung, Nikolai | Qualcomm Incorporated |
| Li, Qiuting | ZTE |
| Morita, Naotaka | NTT |
| Multrus, Markus | Fraunhofer IIS |
| Pan, Qi | Huawei |
| Pazos, Marcelo | Qualcomm |
| Plante, Fabrice | Apple |
| Pousi, Timo | Ericsson LM |
| Ragot, Stéphane | Orange |
| Rämö, Anssi | Nokia |
| Saha, Jayeeta | ETSI MCC |
| Sodagar, Iraj | Tencent |
| Song, Jaeyeon | Samsung Electronics |
| Steck, Chris | Xperi |
| Su, Huan-yu | Huawei |
| Sun, Zhao | Huawei |
| Suzuki, Rihito | NTT |
| Szczerba, Marek | Philips |
| Toftgård, Tomas | Ericsson |
| Tsujikawa, Toru | NTT |
| Xu, Song | China Mobile |
| Yip, Eric | Samsung Electronics |
| Zhao, Sun | Huawei |

Annex C.1 Agreed not presented

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **SWG Agenda item** | **TDoc Status** |
| [**S4-220153**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220153.zip) | NBMP in ITT4RT | Nokia Corporation | 11.5 | agreed |
| [**S4-220163**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220163.zip) | TR 26.962 v. 0.3.0 | Nokia Corporation | 11.5 | agreed |
| [**S4-220256**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220256.zip) | Guidelines on Scene Description-based overlays | QUALCOMM Europe Inc. - Italy | 11.5 | agreed |
| [**S4-220257**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220257.zip) | TR 26.862 V0.0.9 | KPN N.V. | 11.5 | agreed |
| [**S4-220259**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220259.zip) | Changes to TS 26.114 for External source or occlusion-free overlays | Nokia Corporation, Tencent | 11.5 | agreed |
| [**S4-220266**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220266.zip) | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | 11.5 | agreed |

Annex C.2 Agreed to be presented

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **SWG Agenda item** | **TDoc Status** | **Plenary Agenda item** |
| [**S4-220254**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220254.zip) | LS to SA1 and GSMA on Requirements for RTT Conferencing | Orange, Ericsson, Meta, Nokia, Qualcomm | 11.3 | agreed | 5.3 |
| [**S4-220262**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220262.zip) | Requirement on UE Behavior regarding QoE Measurement and Reporting (late) | Qualcomm Incorporated | 11.6 | agreed | 15.8 |
| [**S4-220269**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220269.zip) | TR 26.962 v. 0.5.0 | Nokia Corporation | 11.5 | agreed | 15.1 |
| [**S4-220270**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220270.zip) | CR on ITT4RT Phase 2 Features | Nokia Corporation, Tencent, KPN N.V., Samsung, Qualcomm Incorporated | 11.5 | agreed | 15.1 |
| [**S4-220271**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220271.zip) | TR 26.862 V0.4.0 | KPN N.V. | 11.5 | agreed | 15.1 |
| [**S4-220272**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220272.zip) | CR-26.114 Add support of per-slice QoE measurement | Huawei, HiSilicon | 11.4 | agreed | 15.8 |
| [**S4-220273**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220273.zip) | Draft New WID on immersive Real-time Communication for WebRTC | Facebook | 11.7 | agreed | 19 |
| [**S4-220274**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220274.zip) | Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | NTT, Qualcomm Incorporated, Facebook, Tencent | 11.7 | agreed | 19 |

Annex C.3 Other than agreed not presented

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **SWG Agenda item** | **TDoc Status** | **Revised to** |
| [**S4-220073**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220073.zip) | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | 11.5 | revised | [**S4-220255**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220255.zip) |
| [**S4-220074**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220074.zip) | Guidelines on Scene Description-based overlays | QUALCOMM Europe Inc. - Italy | 11.5 | revised | [**S4-220256**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220256.zip) |
| [**S4-220081**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220081.zip) | Draft New WID on immersive Real-time Communication for WebRTC | Facebook | 11.7 | revised | [**S4-220261**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220261.zip) |
| [**S4-220082**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220082.zip) | Splitting TS 26.114 into Multiple Documents | Facebook | 11.6 | revised | [**S4-220182**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220182.zip) |
| [**S4-220102**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220102.zip) | ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling | 3GPP MCC | 11.4 | Noted |  |
| [**S4-220122**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220122.zip) | CR-26.114 Add support of per-slice QoE measurement | Huawei, HiSilicon | 11.4 | revised | [**S4-220272**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220272.zip) |
| [**S4-220129**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220129.zip) | Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | NTT | 11.7 | revised | [**S4-220274**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220274.zip) |
| [**S4-220130**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220130.zip) | Proposal of “WebRTC with Operator’s Assistance” | NTT | 11.7 | noted |  |
| [**S4-220132**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220132.zip) | New WID on IMS-based AR Conversational Services (IBACS) | KPN N.V. | 11.7 | noted |  |
| [**S4-220133**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220133.zip) | TR 26.862 V0.0.8 | KPN N.V. | 11.5 | revised | [**S4-220257**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220257.zip) |
| [**S4-220162**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220163.zip) | Changes to TS 26.114 for External source or occlusion-free overlays | Nokia Corporation, Tencent | 11.5 | revised | [**S4-220259**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220259.zip) |
| [**S4-220179**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220179.zip) | Draft WID on 5G Real-time Transport | QUALCOMM Europe Inc. - Spain | 11.7 | revised | [**S4-220275**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220275.zip) |
| [**S4-220180**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220180.zip) | Considerations for R18 work in SA4 | Nokia Corporation | 11.7 | noted |  |
| [**S4-220182**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220182.zip) | Splitting TS 26.114 into Multiple Documents | Facebook | 11.6 | revised | [**S4-220267**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220267.zip) |
| [**S4-220187**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220187.zip) | Requirement on UE Behavior regarding QoE Measurement and Reporting (late) | Qualcomm Incorporated | 11.6 | revised | [**S4-220262**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220262.zip) |
| [**S4-220192**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_117-e/LS/LS_in/S4-220192.zip) | Incoming LS from MPEG on MPEG-I scene description | MPEG | 11.5 | Noted |  |
| [**S4-220255**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220255.zip) | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | 11.5 | revised | [**S4-220266**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220266.zip) |
| [**S4-220258**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220258.zip) | TR 26.862 V0.1.0 | KPN N.V. | 11.5 | revised | [**S4-220265**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220265.zip) |
| [**S4-220261**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220261.zip) | ßß | Facebook | 11.7 | revised | [**S4-220273**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220273.zip) |
| [**S4-220263**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220263.zip) | CR on ITT4RT Phase 2 Features | Nokia Corporation, Tencent, KPN N.V., Samsung, Qualcomm Incorporated | 11.5 | revised | [**S4-220270**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220270.zip) |
| [**S4-220264**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220264.zip) | TR 26.962 v. 0.4.0 | Nokia Corporation | 11.5 | revised | [**S4-220269**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220269.zip) |
| [**S4-220265**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220265.zip) | TR 26.862 V0.2.0 | KPN N.V. | 11.5 | revised | [**S4-220268**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220268.zip) |
| [**S4-220267**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220267.zip) | Splitting TS 26.114 into Multiple Documents | Facebook | 11.6 | noted |  |
| [**S4-220268**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220268.zip) | TR 26.862 V0.3.0 | KPN N.V. | 11.5 | revised | [**S4-220271**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220271.zip) |
| [**S4-220275**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220275.zip) | Draft WID on 5G Real-time Transport | QUALCOMM Europe Inc. - Spain, AT&T, Nokia, InterDigital, Ericsson, Samsung, Facebook, KPN, Tencent | 11.7 | noted |  |

Annex C.4 Other than agreed presented

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **SWG Agenda item** | **TDoc Status** | **Plenary Agenda item** |
| [**S4-220318**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220318.zip) | MTSI SWG Report during SA4#117-e | MTSI SWG Chair |  | reserved | 13.3 |
| [**S4-220260**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220260.zip) | Work Item Summary for ITT4RT | Nokia Corporation | 11.5 | not treated | 15.1 |

MTSI SWG Tdoc List

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| --- | --- | --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **SWG Agenda item** | **TDoc Status** | **Plenary Agenda item** | **Revised to** |
| [**S4-220073**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220073.zip) | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | 11.5 | revised |  | [**S4-220255**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220255.zip) |
| [**S4-220074**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220074.zip) | Guidelines on Scene Description-based overlays | QUALCOMM Europe Inc. - Italy | 11.5 | revised |  | [**S4-220256**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220256.zip) |
| [**S4-220081**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220081.zip) | Draft New WID on immersive Real-time Communication for WebRTC | Facebook | 11.7 | revised |  | [**S4-220261**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220261.zip) |
| [**S4-220082**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220082.zip) | Splitting TS 26.114 into Multiple Documents | Facebook | 11.6 | revised |  | [**S4-220182**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220182.zip) |
| [**S4-220102**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220102.zip) | ETSI HF LS answer to 3GPP SA4 LS reply S4-191216 on Real-Time Text conference calling | 3GPP MCC | 11.3 | Noted |  |  |
| [**S4-220122**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220122.zip) | CR-26.114 Add support of per-slice QoE measurement | Huawei, HiSilicon | 11.4 | revised |  | [**S4-220272**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220272.zip) |
| [**S4-220129**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220129.zip) | Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | NTT | 11.7 | revised |  | [**S4-220274**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220274.zip) |
| [**S4-220130**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220130.zip) | Proposal of “WebRTC with Operator’s Assistance” | NTT | 11.7 | noted |  |  |
| [**S4-220132**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220132.zip) | New WID on IMS-based AR Conversational Services (IBACS) | KPN N.V. | 11.7 | noted |  |  |
| [**S4-220133**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220133.zip) | TR 26.862 V0.0.8 | KPN N.V. | 11.5 | revised |  | [**S4-220257**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220257.zip) |
| [**S4-220153**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220153.zip) | NBMP in ITT4RT | Nokia Corporation | 11.5 | agreed |  |  |
| [**S4-220162**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220163.zip) | Changes to TS 26.114 for External source or occlusion-free overlays | Nokia Corporation, Tencent | 11.5 | revised |  | [**S4-220259**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220259.zip) |
| **S4-220163** | TR 26.962 v. 0.3.0 | Nokia Corporation | 11.5 | agreed |  |  |
| [**S4-220179**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220179.zip) | Draft WID on 5G Real-time Transport | QUALCOMM Europe Inc. - Spain | 11.7 | revised |  | [**S4-220275**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220275.zip) |
| [**S4-220180**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220180.zip) | Considerations for R18 work in SA4 | Nokia Corporation | 11.7 | noted |  |  |
| [**S4-220182**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220182.zip) | Splitting TS 26.114 into Multiple Documents | Facebook | 11.6 | revised |  | [**S4-220267**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220267.zip) |
| [**S4-220187**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220187.zip) | Requirement on UE Behavior regarding QoE Measurement and Reporting | Qualcomm Incorporated | 11.6 | revised |  | [**S4-220262**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220262.zip) |
| [**S4-220192**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_117-e/LS/LS_in/S4-220192.zip) | Incoming LS from MPEG on MPEG-I scene description | MPEG | 11.3 | Noted |  |  |
| [**S4-220254**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220254.zip) | LS to SA1 and GSMA on Requirements for RTT Conferencing | Orange, Ericsson, Meta, Nokia, Qualcomm | 11.3 | agreed | 5.3 |  |
| [**S4-220255**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220255.zip) | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | 11.5 | revised |  | [**S4-220266**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220266.zip) |
| [**S4-220256**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220256.zip) | Guidelines on Scene Description-based overlays | QUALCOMM Europe Inc. - Italy | 11.5 | agreed |  |  |
| [**S4-220257**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220257.zip) | TR 26.862 V0.0.9 | KPN N.V. | 11.5 | agreed |  |  |
| [**S4-220258**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220258.zip) | TR 26.862 V0.1.0 | KPN N.V. | 11.5 | revised |  | [**S4-220265**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220265.zip) |
| [**S4-220259**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220259.zip) | Changes to TS 26.114 for External source or occlusion-free overlays | Nokia Corporation, Tencent | 11.5 | agreed |  |  |
| [**S4-220260**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220260.zip) | Work Item Summary for ITT4RT | Nokia Corporation | 11.5 | not treated | 15.1 |  |
| [**S4-220261**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220261.zip) | Draft New WID on immersive Real-time Communication for WebRTC | Facebook | 11.7 | revised |  | [**S4-220273**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220273.zip) |
| [**S4-220262**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220262.zip) | Requirement on UE Behavior regarding QoE Measurement and Reporting | Qualcomm Incorporated | 11.6 | agreed | 15.8 |  |
| [**S4-220263**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220263.zip) | CR on ITT4RT Phase 2 Features | Nokia Corporation, Tencent, KPN N.V., Samsung, Qualcomm Incorporated | 11.5 | revised |  | [**S4-220270**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220270.zip) |
| [**S4-220264**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220264.zip) | TR 26.962 v. 0.4.0 | Nokia Corporation | 11.5 | revised |  | [**S4-220269**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220269.zip) |
| [**S4-220265**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220265.zip) | TR 26.862 V0.2.0 | KPN N.V. | 11.5 | revised |  | [**S4-220268**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220268.zip) |
| [**S4-220266**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220266.zip) | Scene Description-based overlay support in ITT4RT | QUALCOMM Europe Inc. - Italy | 11.5 | agreed |  |  |
| [**S4-220267**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220267.zip) | Splitting TS 26.114 into Multiple Documents | Facebook | 11.6 | noted |  |  |
| [**S4-220268**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220268.zip) | TR 26.862 V0.3.0 | KPN N.V. | 11.5 | revised |  | [**S4-220271**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220271.zip) |
| [**S4-220269**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220269.zip) | TR 26.962 v. 0.5.0 | Nokia Corporation | 11.5 | agreed | 15.1 |  |
| [**S4-220270**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220270.zip) | CR on ITT4RT Phase 2 Features | Nokia Corporation, Tencent, KPN N.V., Samsung, Qualcomm Incorporated | 11.5 | agreed | 15.1 |  |
| [**S4-220271**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220271.zip) | TR 26.862 V0.4.0 | KPN N.V. | 11.5 | agreed | 15.1 |  |
| [**S4-220272**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220272.zip) | CR-26.114 Add support of per-slice QoE measurement | Huawei, HiSilicon | 11.4 | agreed | 15.8 |  |
| [**S4-220273**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220273.zip) | Draft New WID on immersive Real-time Communication for WebRTC | Facebook | 11.7 | agreed | 19 |  |
| [**S4-220274**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220274.zip) | Draft New Feasibility Study on the enhancements for immersive Real-time Communication for WebRTC | NTT, Qualcomm Incorporated, Facebook, Tencent, Orange, KPN | 11.7 | agreed | 19 |  |
| [**S4-220275**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220275.zip) | Draft WID on 5G Real-time Transport | QUALCOMM Europe Inc. - Spain, AT&T, Nokia, InterDigital, Ericsson, Samsung, Facebook, KPN, Tencent | 11.7 | noted |  |  |
| [**S4-220318**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220318.zip) | MTSI SWG Report during SA4#117-e | MTSI SWG Chair |  | not treated | 13.3 |  |

1. Nikolai Leung, Qualcomm Inc., with detailed minutes provided by Bo Burman of Ericsson LM and Iraj Sodagar of Tencent [↑](#footnote-ref-1)