**Source: RTC SWG Chair[[1]](#footnote-1)**

**Title: RTC SWG Report during SA4#129-e**

**Document for: Approval**

**Agenda Item: 12.4**

Executive summary

The 3GPP SA4 RTC SWG met for 4 online sessions during 3GPP SA4#129-e. Over 200 emails were exchanged over the RTC [email](https://list.etsi.org/scripts/wa.exe?REPORT=3GPP_TSG_SA_WG4_RTC&u=2280&1=3GPP_TSG_SA_WG4_RTC&a=19+Aug+2024&I=-3&L=3GPP_TSG_SA_WG4_RTC&I=-3&z=4) reflector during the week.

A total of 37 delegates joined the RTC SWG sessions. A total of 47 input tdocs were handled by the group with a concluding status on 31 tdocs.

Thanks to Razvan-Andrei Stoica and Shane He for the minutes. Below is a summary of the progress made during the meeting.

Reports and Liaisons

* LSs from RAN2 on AL-FEC and FS\_XRM were noted. It was observed that a further clarification on the matter can be provided from SA4 and a corresponding LS was drafted.
* LSs on binding information from SA2, 1 postponed, 1 reply agreed.
* LS on FS\_XRM Ph 2 was noted and a reply was drafted.
* LS from GSMA on TS.66 was noted and a reply was agreed.

Maintenance including TEI

* TS 26.113: 3 CRs on dynamic policies and metrics.
* TS 26.114: CR obsoleted references
* TS 26.506: 2 CRs on metrics and terminology correction.
* TS 26.264: on editorial corrections

FS\_5G\_RTP\_Ph2

* There were 22 input documents and 17 were agreed (excluding TR and time plan)
* The agreed documents, all incorporated in the latest version of TR 26.822, were in the following areas:
  + Terms and abbreviations
  + MID packet filtering
  + PDU Set size
  + Lonely PDUs
  + RTP multiplexing
  + Delivery over multiple sessions
  + Data burst marking
  + RTP retransmission
  + Application Layer FEC
  + Support of XR services in 5G
* TR 26.822 will be sent to SA for information.

SR\_IMS

* 4 documents were agreed to be added into TS 26.567
  + Metadata formats
  + General procedures for split rendering session modification
  + Network centric procedures for adaption of split rendering
  + Correction in the procedures for session establishment and editorial updates

The Adhoc Telco Schedule before SA4#128

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| **3GPP SA4 RTC SWG Telco**  **(Sep 25, 2024, Wednesday, 15:00 –17:00 CEST, Host Nokia)** | Submission deadline: **Sep 23, 2024, Monday, 23:59 CEST** |

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| **3GPP SA4 RTC SWG Telco**  **(Oct 9, 2024, Wednesday, 06:00 –08:00 CEST, Host Nokia)** | Submission deadline: **Oct 7, 2024, Monday, 23:59 CEST** |

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| **3GPP SA4 RTC SWG Telco**  **(Oct 23, 2024, Wednesday, 15:00 –17:00 CEST, Host Nokia)** | Submission deadline: **Oct 21, 2024, Monday, 23:59 CEST** |

The output documents from the RTC SWG sessions are:

**Tdocs agreed in RTC SWG are in green.**

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| **5** | **Reports/Liaisons from other groups/meetings** |  |
| 5.2 | Other 3GPP groups | **1412 -> noted**  **1413 -> noted**  **1419: reply in 1671**  **1420-> postponed**  **1422: reply in 1776** |
| 5.3 | Other groups | 1435: reply in 1684 |

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| **12** | **Reports and general issues from sub-working-groups** |  |
| 12.3 | RTC SWG | **1777** |

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| **13** | **CRs to completed features in Release 18 and earlier** | **26.113: 1673, 1683, 1654**  **26.114: 1408**  **26.506: 1681, 1741**  **26.264: 1455** |

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| **14** | **Release 19 Features** |  |
| 14.1 | SR\_IMS (Split rendering over IMS) | **TP: 1737**  **draft TS: 1739** |
| **15** | **Study Items** |  |
| 15.10 | FS\_5G\_RTP\_Ph2 (Study of 5G Real-time Transport Protocol Configurations, Phase 2) | **LS out on FEC (SA2): 1767**  **TP: 1754**  **draft TR: 1672** |

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| **20** | **Any Other Business** | **CR to TS 26.114: 1675** |

SWG Minutes during SA4#129-e

## 10.1 Opening of the session, registration of documents

Saba Ahsan opened the session over [email](https://list.etsi.org/scripts/wa.exe?REPORT=3GPP_TSG_SA_WG4_RTC&u=2280&1=3GPP_TSG_SA_WG4_RTC&a=19+Aug+2024&I=-3&L=3GPP_TSG_SA_WG4_RTC&I=-3&z=4) at 09:35 CEST on August 19, 2024, followed by the first online session at 15:00 CEST on August 20, 2024

The minutes are shared online here: [RTC SWG Report SA4#129-e.docx](https://docs.google.com/document/d/1tHK5B_-01EWwHwXc-JhNRPT1xL_2ynXs)

Razvan-Andrei Stoica and Shane He agreed to serve as the acting secretaries for the meeting.

Participants were informed that the attendance for the sessions will be collected using Microsoft Teams.

The documents registered before the meeting and the agenda is provided in Annex A, as approved in the opening plenary of SA4#129.

## 10.2 IPR and antitrust reminder

The attention of the delegates to the meeting of this SWG Group was drawn to the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.

The delegates were asked to take note that they were thereby invited:

* to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.
* to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms.

The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chair and Vice-Chairs and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP. Delegates were reminded that timely submission of work items in advance of TSG/WG/SWG meetings was important to allow for full and fair consideration of such matters.

## 10.3 Reports and liaisons from other groups

During session-1, delegates were reminded to check email reflectors for draft LS replies shared in the email triggers for respective LSs.

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| [**S4-241412**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241412.zip) | Reply LS to SA2 on FS\_XRM PH2 | RAN WG2 | Andrijana Brekalo |

Sent for email discussion.

Desire to send LS to RAN and SA2 (see 1413)

**Decision: Noted**

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| [**S4-241413**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241413.zip) | Reply LS on Application-Layer FEC Awareness at RAN | RAN WG2 | Andrijana Brekalo |

Sent for email discussion.

Reply LS to ask for clarification in Tdoc 1617. Clarification to SA2 on reliability criteria for AL-FEC in Tdoc 1619.

Presenter: Liangping (Qualcomm)

Online Discussion:

**Decision: Noted**

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| [**S4-241617**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241617.zip) | LS Reply on Application-Layer FEC Awareness at RAN | QUALCOMM Europe Inc. - Italy | Ma Liangping |

Sent for email discussion.

Suggestion to merge 1617 and 1619, and provide application specific aspects. Concerns on questions being too RAN-specific.

Presenter: Liangping (Qualcomm)

Online Discussion:

* See discussion in 1619 (will be merged there)

**Decision: Merged to 1767**

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| [**S4-241619**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241619.zip) | [Draft] LS Reply on Application-Layer FEC Awareness at RAN | QUALCOMM Europe Inc. - Italy | Ma Liangping |

Sent for email discussion.

See for 1617

Presenter: Liangping (Qualcomm)

Online Discussion:

* Ryan: Remove near-MDS codes.
* Liangping: I can simplify to only MDS
* Serhan: Odd to make clarifications on RAN aspects to SA2. Why are we making these clarifications?
* Liangping: AL-FEC is cross-layer, no single WG has the expertise so it needs to start from somewhere. We can move this point as a question to RAN2 if RLC AM is excluded. SA2 view may be that only RLC UM is used, but what about RLC AM?
* Qi: Same concern as Serhan. Why not let SA2 take over this, or why did RAN2 not say anything on RLC AM?
* Thorsten: Why SA4 should clarify a RAN2 LS?
* Liangping: SA4 did not answer this question in the original LS exchange. We should clarify now.
* Thorsten: That seems like a SA2 problem than a SA4 one.
* Saba: Parked for offline discussion
* Liangping: explains r04
* Thorsten: Why SA4 needs to clarify RAN2 feedback?
* Liangping: SA2 may interpret wrongly AL-FEC requirements. We were CCed in RAN2 reply so we may provide our view/clarification
* Thorsten: Not really comfortable with this
* Saba: Should this be a reply LS really. Is more a LS. The language of the second to last sentence seems not clear
* Thorsten: This is not really clear
* Saba: Let’s revise and make this an LS

**Decision: Revised to 1767 (to go to plenary)**

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| [**S4-241419**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241419.zip) | LS on Binding information | SA WG2 | Andrijana Brekalo |

Sent for email discussion.

draft reply LS from Ericsson in drafts folder. Discussion needed on Q4 on whether the app can be downloaded from either local or remote DCSF.

Presenter: Bo (Ericsson)

Online Discussion:

* Bo: Answer 4 should start with a “no” instead of “yes” based on email comments, otherwise no change.
* No concerns raised on the reply LS in S4-241671

**Decision: Noted**

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| [**S4-241671**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241671.zip) | Reply LS on Binding information | SA WG2 | Bo Burman |

Sent for email discussion.

draft reply LS from Ericsson in drafts folder. Discussion needed on Q4 on whether the app can be downloaded from either local or remote DCSF.

Presenter: Bo (Ericsson)

Online Discussion: Answer to Q4 is No.

**Decision: Agreed**

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| [**S4-241420**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241420.zip) | LS on Clarification of DC Binding Information | SA WG2 | Andrijana Brekalo |

Sent for email discussion.

Draft reply composed by Huawei. To be decided:

* Use req-app-id to add version number of app
* Introduce a new field for version

Presenter: Huanyu (Huawei)

Online Discussion:

* Saba: Parked for further offline discussions
* Huan-yu: Cannot agree with E// email proposal.
* Bo: Interested to see on how DC binding information is conveyed.
* Huan-yu: Same view

**Decision: Posponed**

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| [**S4-241422**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241422.zip) | LS on FS\_XRM Ph2 | SA WG2 | Andrijana Brekalo |

Sent for email discussion.

No comments received.

**Decision:Noted**

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| [**S4-241454**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241454.zip) | Draft LS reply to SA2 on Periodicity and Time to Next Burst | Nokia | Serhan Gül |

Sent for email discussion.

Merge with 1522 available.

Presenter: Serhan(Nokia)

Online Discussion:

* Rufael: Good to not only condition on sender implementation, but also depends on the dynamic traffic characteristic being present/enabled. Why is it necessary to mention the last packet? Okay with this though if it is only to RAN2 directed.
* Liangping: On 1st Q: traffic may also not be periodic?
* Serhan: If not periodic, periodicity does not apply
* Liangping: If not periodic, then is that implicitly covered in Q2?
* Serhan: Yes, it is covered in Q2
* Liangping: Concern with user plane reply and dynamic adjustments comment. Adjustment on the periodicity may be achieved by control plane/user plane. This answer contradicts this
* Serhan: Why do we need to send periodicity over user plane as well? I see them as separate information
* Liangping: I think they are related, TTNB can convey periodicity.
* Serhan: What is proposed change?
* Liangping: We should not rule out the user plane solution for periodicity in Q1.
* Saba: What is difference between periodicity and TTNB?
* Liangping: Not yet clear, but if starting time is first PDU then no difference.
* Rufael: We are flexible on that part of TTNB definition.
* Liangping: If only in the last packet then TTNB may be lost
* Rufael: There are 2 aspects, TTNB definition (possibly a SA2 matter) and where to indicate it (one or more packets).
* Saba: Parked
* Serhan: explains r07.
* Rufael: Why need to add last sentence on efficiency - not asked by SA2.
* Serhan: Related to periodicity, if periodicity changes frequently traffic not periodic and then carrying periodicity in RTP HE is not efficient
* Rufael: They do not ask about efficiency.
* Liangping: Dynamic changes does not say how often change occurs. 1 in second may not be best via RTP HE, if very dynamic then maybe yes.
* Saba: No agreement - postpone?
* Liangping: can we keep open to plenary
* Saba: continue discussion over email to go to plenary

**Decision: Revised -> 1776 (to go to plenary)**

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| [**S4-241522**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241522.zip) | **Reply LS on FS\_XRM Ph2** | **Huawei, HiSilicon** | **Qi Pan** |

Sent for email discussion.

See for 1454.

**Decision: Merged to 1454**

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| [**S4-241435**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241435.zip) | Newly published data channel GSMA PRD TS.66 | GSMA | Andrijana Brekalo |

Sent for email discussion.

Reply from Huawei.

Discussion:

* Jiayi: Do we need to only to GSMA, right?
* Fred: Yes, SA1, SA6, CT, CT1, CT3, CT4 should also be kept in CC.

**Decision: Noted. Reply in 1684 was agreed.**

## 10.4 CRs to Features in Release 18 and earlier

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| [**S4-241385**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241385.zip) | [iRTCW] Dynamic Policies API usage | BBC | Richard Bradbury |

Sent for email discussion.

no revision

Presenter: Richard (BBC)

Online Discussion:

* Richard: Added Imed changes on SDP negotiation and PDU Set marking at the UPF for PDU Set QoS handling
* Imed: What does specific QoS mean
* Andrei: Specific QoS with PDU Set QoS Parameters

**Decision: Revised -> 1673 (agreed)**

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| [**S4-241408**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241408.zip) | Update on obsoleted reference | BEIJING SAMSUNG TELECOM R&D | Hakju Ryan Lee |

Sent for email discussion.

no revision

Presenter: Ryan (Samsung)

Online Discussion:

* No comments

**Decision: Agreed**

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| [**S4-241441**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241441.zip) | Terminology correction | NTT | Rihito Suzuki |

Sent for email discussion.

no revision

Presenter: Rihito (NTT)

Online Discussion:

* Richard: If RTC endpoint meets definition and does not implement signaling to join a session seems wrong
* Rihito: RTC application includes the signaling aspects and if RTC endpoint does not include the RTC application (which was a consensus in the last meeting), the definition of RTC endpoint not touch signalling capability.
* Richard: I question this consensus. Why is that?
* Rihito: I guess some analogy in 3GPP terminology RTC endpoint and IETF terminology WebRTC endpoint which is not including application terminating signalling.
* Richard: Not sure very convincing argument as system includes both media + signaling.
* Saba: I would agree with this point, I don’t understand why signaling is not included
* Ryan: I also got confused by this. Why do we have RTC-4s connected to this actor?
* Srinivas: Same as above.
* Saba: Parked
* Rihito: explains r04\_BBC
* Liangping: Does the RTC endpoint include the signaling function?
* Rihito: RTC Application is handling the signaling and/or may be supported by RTC Access Function in UE side. In the case of RTC AS, the RTC endpoint includes a signalling function.

**Decision: Revised -> 1724→1741 (agreed)**

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| [**S4-241602**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241602.zip) | [GA4RTAR] Clarification on metrics and consumption collection and reporting procedures | InterDigital Comunications, BBC | Srinivas Gudumasu |

Sent for email discussion.

no revision

Presenter: Srinivas (Interdigital)

Online Discussion:

* No comments - revisions offline based on email discussions

**Decision: Revised -> 1681 (Agreed wp)**

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| [**S4-241603**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241603.zip) | [iRTCW] Clarification on Metrics collection | InterDigital Comunications, BBC | Srinivas Gudumasu |

Sent for email discussion.

no revision

Presenter: Srinivas (Interdigital)

Online Discussion:

* No comments - revisions offline based on email discussions

**Decision: Revised -> 1683 (agreed wp)**

## 10.5 SR\_IMS (Split rendering over IMS)

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| [**S4-241514**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241514.zip) | [SR\_IMS] Enabling Generic IMS-based Split Rendering | Qualcomm France | Imed Bouazizi |
| [**S4-241532**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241532.zip) | [SR\_IMS] pCR Network Centric Procedures | Nokia | Gazi Karam Illahi |
| [**S4-241550**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241550.zip) | [SR\_IMS]Editorial updates to TS 26.567 | Nokia | Xuan (Shane) He |
| S4-241562 | [SR\_IMS] Proposed Updated Work Plan | Nokia | Xuan (Shane) He |
| [**S4-241564**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241564.zip) | [SR\_IMS]General procedures for session modifications | Nokia | Daniel Philip VENMANI |
| [**S4-241615**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241615.zip) | [SR\_IMS] Metadata formats | InterDigital Communications | Srinivas Gudumasu |

Discussion and results:

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| [**S4-241514**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241514.zip) | [SR\_IMS] Enabling Generic IMS-based Split Rendering | Qualcomm France | Imed Bouazizi |

Sent for email discussion.

no revision

Presenter: Imed

Online Discussion:

* Shane: TS 23.228 specified MF registration and discovery. We could discuss how to re-use or refer to the existing mechanism specified by SA2.
* parked and Imed will take the comments from email discussion

**Decision: Revised -> 1693**

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| [**S4-241693**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241693.zip) | [SR\_IMS] Enabling Generic IMS-based Split Rendering | Qualcomm France | Imed Bouazizi |

Sent for email discussion.

no revision

Presenter: Imed

Online Discussion:

* Imed: explains email discussion and delta from 1514
* Gazi: Note on split rendering is confusing. What would be the entry point to the application? The external app server is not a DC-AS or IMS AS, so what is the relation to these?
* Imed: App itself connects to external server (like edge feature in 5GMS). Communication with external servers is up to the application. What needs specification is the link and signaling between the application and MF/MRF.
* Huan-yu: Can we clarify the DC to just the IMS DC scenario?
* Imed: Replied to this on email. Hope we can clarify this in future
* Gazi: Okay with MRF discovery part, but proposal is unclear.

**Decision: Noted**

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| [**S4-241532**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241532.zip) | [SR\_IMS] pCR Network Centric Procedures | Nokia | Gazi Karam Illahi |

Sent for email discussion.

revision 02

Presenter: Gazi

Online Discussion:

* Huanyu: basically agree with the revision, further comments just for clarification
* Imed: main concern is to align with 26.264, and to clarify the delta.
* Gazi: the revision is made based on comments from emails, and aligned with 26.264
* Saba: parked and offline discussion is expected
* Gazi: explains r03

**Decision: Revised -> 1728 (agreed)**

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| [**S4-241564**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241564.zip) | [SR\_IMS]General procedures for session modifications | Nokia | Daniel Philip VENMANI |

Sent for email discussion.

revision produced

Presenter: Daniel

Online Discussion:

* Bo: if you could put different MF in the chat to avoid misunderstanding
* Imed: do we have any concrete use case?
* Daniel: mobility, multi-user,..different user requirements
* Imed: discovery issue also appears in this document
* Saba: parked and further revision is expected
* Daniel: explains r2
* Liangping: Why do we need to have MFn… just one example, never involved in communications.
* Bo: Don’t you need to release MF1? Or too much detail for the flow?
* Daniel: This is part of step 13.
* Bo: Okay, I see
* Daniel: Putting 3 dots between MFn and MF2 okay?
* Liangping: Just 2 MFs for simplicity
* Saba: can be written verbatim that more than 2MFs may participate
* Daniel: Ok will do
* NOTE: Agreed with above online revisions

**Decision: Revised -> 1731 (agreed)**

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| [**S4-241550**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241550.zip) | [SR\_IMS]Editorial updates to TS 26.567 | Nokia | Xuan (Shane) He |

Sent for email discussion.

agreed by email approval

Presenter: Shane

Online Discussion:

**Decision: Agreed**

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| [**S4-241615**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241615.zip) | [SR\_IMS] Metadata formats | InterDigital Communications | Srinivas Gudumasu |

Sent for email discussion.

Presenter: Srinivas

Online Discussion:

* Imed: to be accurate, which is for XR, which is for AR needs to be clarified
* Shane: it would be good to have a revision
* Saba: parked and revision is expected
* Srinivas: explains r02
* Imed: Not sure why do we limit action formats for AR services. Pose is just for XR services IMO.
* Srinivas: We can write both as XR services
* Gazi: Agree, but why limit action format only to XR services, can it not be online gaming as well
* Imed: Same, not limit action format to anything.
* Srinivas: Remove AR services from action format and put XR services for pose
* Gazi: Not sure we should have a hard “shall” requirement for pose and action formats. Would this exclude for pose the header extensions pose? All hard requirements in brackets for now
* Srinivas: Okay
* Saba: Okay to agree with shalls for pose and action formats in brackets?

**Decision: Revised -> 1735 (agreed with online changes as noted)**

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| [S4-241562](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241562.zip) | [SR\_IMS] Proposed Updated Work Plan | Nokia | Xuan (Shane) He |

Presenter: Shane

Online Discussion:

* Saba: Second telco was 6am CEST.
* Shane: Sure can revise

**Decision: Revised -> S4-241737 (agreed)**

## 10.6 FS\_5G\_RTP\_Ph2 (Study of 5G Real-time Transport Protocol Configurations, Phase 2)

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| [**S4-241486**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241486.zip) | TR 26.822 v.0.1.1 | Nokia UK | Igor Curcio | draft TR |

Sent for email discussion.

**Decision: Agreed (over email)**

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| [**S4-241453**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241453.zip) | [FS\_5G\_RTP\_Ph2] Solution KI#8: PSI indication to optimize RTP retransmission | Nokia | Serhan Gül | Retransmissions |

Sent for email discussion.

Presenter: Serhan G. (Nokia)

Online Discussion:

* Serhan: Email comments have been resolved - no further comments online.

**Decision: Revised to 1651 (agreed wp)**

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| [**S4-241444**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241444.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #1 Description PDU Set Size | Huawei, Hisilicon | Rufail Mekuria | PDU Set Size |

Sent for email discussion.

Presenter: Rufael (Huawei)

Online Discussion:

* Rufael: Maybe a need to send LS to clarify PSSIze requirements from RAN
* Andrei: Yes, my question was what are the next steps. LS is fine not a requirement though.

**Decision: Agreed**

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| [**S4-241497**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241497.zip) | [FS\_5G\_RTP\_Ph2] Update on the PDU Set Size information correction by indicating the remaining PDU Set Size in RTP header extension | QUALCOMM Europe Inc. - Italy | Ma Liangping | PDU Set Size |

Sent for email discussion.

Presenter: Liangping Ma (Qualcomm)

Online Discussion:

* Qi: Isn’t this a backward compatibility issue to change PSSize meaning for Rel-18?
* Liangping: Yes, but this is an improvement.
* Qi: Correct, but a Rel-19 cannot support Rel-18 RTP HE
* Liangping: This may be resolved by control signaling… The UPF/BS can decide which to support.
* Qi: But then Rel-18 BS cannot understand the meaning of PSSize
* Ryan: Same understanding and concern on backwards compatibility - what about discussion with RAN2/SA2 regarding benefits?
* Liangping: We could have the discussion but for now proposed is only to enhance the TR. We can defer the LS considering all other solutions
* Andrei: Same on the deferring the LS to next meeting - first focus on finalizing solution set and discussing them.

**Decision: Agreed**

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| [**S4-241447**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241447.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #9 RTP Multiplexing KI Description text update | Huawei, Hisilicon | Rufail Mekuria | Multiplexing |

Sent for email discussion.

Presenter: Rufael (Huawei)

Online Discussion:

* Rufael: Revision implements the comments
* Serhan: What is the PT of combined packets of MPEG-2 if they contain different media types?
* Rufael: MPEG-2 TS, cannot categorize as video/audio etc.
* Saba: Is MPEG-2 TS supported in 3GPP?
* Rufael: Yes, it is supported - old technology
* Saba: Are there specific PT formats for audio/video that preclude MPEG-2 TS
* Sujeet: Not aware of such PT formats specified as profile in 3GPP
* Bo: There is a MPEG-2 TS PT but we did not profile this in 3GPP
* Rufael: Reason for this is to use 5G\_RTP extensions for transmissions.

**Decision: Revised -> 241649**

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| [**S4-241448**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241448.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #13 Description text update to account for pdu set with multiple different media types | Huawei, Hisilicon | Rufail Mekuria | Multiplexing |

Sent for email discussion.

Presenter: Rufael (Huawei)

Online Discussion:

* Rufael: Revision to include media content.
* Andrei: Media content is already included in the media format (e.g., MPEG-2 TS). Prefer original first bullet formulation
* Rufael: Okay - we can agree to keep original.

**Decision: Noted**

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| [**S4-241445**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241445.zip) | [FS\_5G\_RTP\_Ph2] Improvements to text on description of KI#2 QoS Handling Requirements for Lonely PDU | Huawei, Hisilicon | Rufail Mekuria | Lonely PDUs |

Sent for email discussion.

Presenter: Rufael (Huawei)

Online Discussion:

* Rufael: Edited version removes the subbullets but kept marking vs non-marking of lone PDUs into PDU Sets
* Serhan: On last bullet, what is the goal: impact to application of marking or non-marking lone PDU in the UPF. Not clear to me.
* Rufael: Good way forward to keep lone PDUs unmarked or not? That is the question including overhead
* Serhan: Overhead for UPF?
* Rufael: Is mainly the transport/RTP layer overhead… and what benefits we can get by having or not from the app perspective.
* Liangping: Is the benefit significant enough to start marking lone PDU?
* Rufael: UPF expects that all PDUs of an application data flow to be marked with PDU Set information. A clean solution/guideline would be preferred. Happy to integrate suggestion if need be
* Serhan: I can try and reformulate last bullet
* Saba: Parked to email discussion
* Rufael: explains r04

**Decision: Revised -> 1751 (agreed)**

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| [**S4-241452**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241452.zip) | [FS\_5G\_RTP\_Ph2] Solution KI#2: PSI signaling for lone PDUs | Nokia | Serhan Gül | Lonely PDUs |

Sent for email discussion.

Presenter:

Online Discussion:

* Qi: If mux in SA2 may have some solutions to differentiate RTP and RTCP traffic, this may not be a problem to solve. RTP routed to one QoS flow, RTCP routed to another.
* Serhan: I agree with separation, but still problem that PDU Set information missing for RTCP packets
* Qi: For RTCP we don’t need to apply PDU Set QoS handling
* Serhan: If no need to apply PDU Set QoS handling to RTCP/STUN then this is not needed, but we did not conclude on this yet.
* Qi: For audio/haptic we can consider PDU Set concept, that is fine, but for RTCP maybe not. Not against it, but is it beneficial to do that after splitting QoS flows?
* Serhan: No way to mark RTCP. 2 separate problems: 1. need PDU Set handling for different protocols, 2. are the mechanisms in place
* Qi: If audio/haptics with PDU Set then how to apply/provide PDU Set information
* Serhan: RTP HE can be used
* Qi: But if we separate in different QoS flows video and audio/haptic why mark?
* Saba: Parked to email discussion
* Serhan: explains r02
* Bo: In NOTE at the end should be RTCP sender reports not RTP sender reports.

**Decision: Revised -> 1747(agreed with note change)**

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| [**S4-241523**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241523.zip) | [FS\_5G\_RTP\_Ph2]\_update of Sol#2 on lonely PDU | Huawei, HiSilicon | Qi Pan | Lonely PDUs |

Sent for email discussion.

Presenter: Qi (Huawei)

Online Discussion:

* Qi: Based on comments we can park this as SA2 is still at an interim conclusion stage.
* Saba: Noted I guess - waiting for SA2 to conclude yes?
* Qi: Parked, if possible to wash-up?
* Saba: Parked - to be updated based on SA2 in washup

**Decision: Noted**

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| [**S4-241501**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241501.zip) | FS\_5G\_RTP\_Ph2] Candidate RTCP messages and RTP header extensions to support XR services in 5G | QUALCOMM Incorporated, Lenovo | Ma Liangping | KI#7 |

Sent for email discussion.

Presenter:

Online Discussion:

**Decision: Merged -> 1660**

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| [**S4-241610**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241610.zip) | [FS\_5G\_RTP\_Ph2] Candidate RTCP messages and RTP header extensions to support XR services in 5G | InterDigital Communications | Srinivas Gudumasu | KI#7 |

Sent for email discussion.

Presenter: Srinivas (InterDigital)

Online Discussion:

* Andrei: 1610 as basis for merge with 1501 and 1611

**Decision: Revised -> 1660**

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| [**S4-241611**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241611.zip) | [5G\_RTP\_Ph2] RTCP congestion control feedback message for XR services | InterDigital Communications | Srinivas Gudumasu | KI#7 |

Sent for email discussion.

Presenter:

Online Discussion:

**Decision: Merged -> 1660**

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| [**S4-2416**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241610.zip)**60** | [FS\_5G\_RTP\_Ph2] Candidate RTCP messages and RTP header extensions to support XR services in 5G | InterDigital Communications | Srinivas Gudumasu | clean merge of KI#7 |

Presenter: Srinivas

Online Discussion:

**Decision: Agreed**

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| [**S4-241449**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241449.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #15 Description text update | Huawei, Hisilicon | Rufail Mekuria | KI#15 |

Sent for email discussion.

Presenter: Rufael (Huawei)

Online Discussion:

* Rufael: Implemented comments

**Decision: Revised -> S4-241657 (agreed wp)**

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| [**S4-241439**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241439.zip) | [FS\_5G\_RTP\_Ph2] KI#14 – MID Packet filtering | BEIJING SAMSUNG TELECOM R&D | Hakju Ryan Lee | KI#14 |

Sent for email discussion.

Presenter: Ryan (Samsung)

* Ryan: Added mid vs. SSRC mapping benefits and answered the questions to Qi and Bo on SSRC relation to mid bundling.
* Bo: The answers are fine for me - SSRC to be complemented by MID.
* Rufael: Can we map this to KI#9? Does bundle support multiple sessions on one 5-tuple
* Ryan: Ok to map to KI#9 on multiplexing. Yes, MID enables multiplexing
* Srinivas: Can we add a uniquely generated stream ID for the media?
* Ryan: IETF uses MID… Need to check if stream ID is possible. For unique generated then we need to IETF new mechanism, not possible.
* Bo: MID is unique in the SDP and same is used in the proposed RTP HE, we do not need anything else.
* Qi: Can we describe how MID complements SSRC solution?
* Ryan: Happy to provide more details in a later contribution…
* Saba: Ok to agree as is with added KI#9?

Online Discussion:

**Decision: Revised -> 1650 (agreed wp)**

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| [**S4-241405**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241405.zip) | [FS\_5G\_RTP] terms and abbreviations | Huawei, Hisilicon | Rufail Mekuria | Editorial |

Sent for email discussion.

Presenter: Rufael (Huawei)

Online Discussion:

* Rufael: Applied changes to resolve offline comments - revision available.
* Serhan: Revised further to remove QUIC

**Decision: Revised -> S4-241658 (agreed wp)**

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| [**S4-241450**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241450.zip) | [FS\_5G\_RTP\_PH2] KI#12 Solution Dynamic Traffic Characteristics of RTP Senders. | Huawei, Hisilicon | Rufail Mekuria | Data burst marking |

Sent for email discussion.

Presenter: Rufael (Huawei)

Online Discussion:

* Rufael: Added the changes to pCR header.
* Liangping: Can you conclude on how the traffic characteristics look at receiver vs that of the traffic characteristics at the sender.
* Rufael: Yes, but results are no conclusive - the data is still bursty and no large deviations between receiver and sender.
* Liangping: WHat is the server in between doing? Routing only?
* Rufael: No, is a media server: routing but also media processing (buffering, RTSP encapsulation), plus throttling as well
* Saba: Agreeable with new changes

**Decision: Revised -> S4-241659**

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| [**S4-241451**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241451.zip) | [FS\_5G\_RTP\_PH2] KI#12 solution RTP Header Extension for Dynamic Traffic Characteristics | Huawei, Hisilicon | Rufail Mekuria | Data burst marking |

Sent for email discussion.

Presenter: Rufael (Huawei)

Online Discussion:

* Liangping: Not sure if we need TCIN. Just process and forget.
* Rufael: I agree, but on a practical level we need it to ease implementation
* Serhan: Need to better understand the TCIN field requirements and usefulness
* Andrei: Syntax and semantics are part of normative work. If they are contentious why not put under []
* Rufael: Fine to put TCIN in brackets.
* Saba: Parked 1451 to determine way forward/brackets scope
* Rufael: explains r6
* Saba: remove or add a bracket around TCIN for proper syntax
* Srinivas: [TCIN] -> [corresponding to the TCIN]
* Liangping: Periodicity matters for CDRX. We may need to wait on C-plane/U-plane solutions before we put all the solutions in the TR
* Rufael: We can do the evaluation at the end.
* Liangping: We should have the same criteria for all solutions. On C-plane solution HW objected claiming no benefits, but this seems double standard
* Rufael: The paper was noted and we raised some valid concerns.
* Saba: Does QC have a formal objection?
* Liangping: Yes, we should have the same criterion on all solutions. This one does not put forward pros and cons of the solution. This proposal seems to not show the benefit, but we can agree to it conditionally to the note below.
* NOTE: Technically sound solutions can be agreed into the TR and later evaluated on benefits, pros and cons.

**Decision: Revised -> 1749 (Agreed with changes on the TCIN and corresponding to TCIN brackets as noted)**

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| [**S4-241498**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241498.zip) | [FS\_5G\_RTP\_Ph2] Control-Plane Solution to the Key Issue on Enhancements of Data Burst Marking | QUALCOMM Europe Inc. - Italy | Ma Liangping | Data burst marking |

Sent for [email discussion](https://list.etsi.org/scripts/wa.exe?REPORT=3GPP_TSG_SA_WG4_RTC&z=4&L=3GPP_TSG_SA_WG4_RTC&1=3GPP_TSG_SA_WG4_RTC&s=S4-240660).

new revision produced

Presenter: Liangping (Qualcomm)

Online Discussion:

* Serhan: benefit of this solution?
* Liangping: benefit actually is to facilitate the work in RAN
* Qi: HW has some concerns and need more time to understand this solution
* Saba: noted

**Decision: Noted**

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| [**S4-241499**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241499.zip) | [FS\_5G\_RTP\_Ph2] Overhead of Application-layer FEC | QUALCOMM Europe Inc. - Italy | Ma Liangping | AL-FEC |

Sent for [email discussion](https://list.etsi.org/scripts/wa.exe?REPORT=3GPP_TSG_SA_WG4_RTC&z=4&L=3GPP_TSG_SA_WG4_RTC&1=3GPP_TSG_SA_WG4_RTC&s=S4-240660).

new revision produced

Presenter: Liangping (Qualcomm)

Online Discussion:

* Saba: revise and fix the typo issue

**Decision: revised to 1663→ Agreed without presentation**

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| [**S4-241502**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241502.zip) | [FS\_5G\_RTP\_Ph2] Congestion control enhancements for AL-FEC awareness | QUALCOMM Europe Inc. - Italy | Ma Liangping | AL-FEC |

Sent for email discussion.

Presenter: Liangping (Qualcomm)

Online Discussion:

* Rafael/Liangping/Razvan: network related status ..
* Saba: parked and offline discussion needed
* Liangping: explains r01

**Decision: Revised -> 1763 (Agreed)**

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| [**S4-241538**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241538.zip) | [FS\_5G\_RTP\_Ph2] updates on text on KI #4 AL-FEC | Huawei, Hisilicon, Qualcomm Inc | Rufail Mekuria | AL-FEC |

Sent for email discussion.

Presenter: Rufail

Online Discussion:

**Decision: Agreed**

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| [**S4-241589**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241589.zip) | [FS\_5G\_RTP\_Ph2] On the feasibility of Application-layer FEC Awareness for PDU Set handling | QUALCOMM Europe Inc. - Italy | Ma Liangping | AL-FEC |

Sent for email discussion.

Presenter: Liangping (Qualcomm)

Online Discussion:

* Ryan: observation 4, 2nd bullet is difficult to agree
* Bo/Qi: the relevant discussion should be taken in RAN
* LP: it is related with LS
* Saba: parked and revisit with LS discussion
* Revision is explained by LiangPing
* Saba: agree to send LS

**Decision: Revised→ xxx (agreed)**

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| [**S4-241503**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241503.zip) | [FS\_5G\_RTP\_Ph2] AL-FEC awareness at RAN while considering upstream and downstream packet losses | QUALCOMM Europe Inc. - Italy | Ma Liangping | ALFEC |

Sent for [email discussion](https://list.etsi.org/scripts/wa.exe?REPORT=3GPP_TSG_SA_WG4_RTC&z=4&L=3GPP_TSG_SA_WG4_RTC&1=3GPP_TSG_SA_WG4_RTC&s=S4-240660).

Summary: no revision

Presenter: Liangping (Qualcomm)

Online Discussion: none

**Decision: Agreed**

## 

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| S4-241700 | [5G\_RTP\_SID] time Plan | Nokia | Igor Curcio |

Presenter: Igor

Online Discussion:

* Saba: Second telco was 6am CEST.
* Igor: I will revise

**Decision: Revised ->1754 (agreed)**

## 10.7 Others Rel-19 matters including TEI

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| --- | --- | --- | --- |
| [**S4-241442**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241442.zip) | Clarifications on SDP settings at DCMTSI client. | NTT | Yoshihiro Inoue |

Sent for email discussion.

Summary: Samsung proposed modification of the text style and NTT agreed to the modification

Presenter: Yoshihiro (NTT)

Online Discussion:

* No comments -

**Decision: Revised to S4-241675 >>> Agreed without presentation**

## 10.8 Any Other Business

Ad Hoc telco time were agreed. The deadline for the documents was made earlier to allow more time for delegates to review.

## 10.12 Close of the session

RTC SWG chair closed the session at 18:09 CEST on August 22, 2024.

# Annex A: Meeting Agenda

* **Color: late,  ~~withdrawn~~**, **moved to a different A.I**

|  |  |  |
| --- | --- | --- |
| 10 | Real-Time Communications (RTC) SWG |  |
| 10.1 | Opening of the session, registration of documents |  |
| 10.2 | IPR and antitrust reminder |  |
| 10.3 | Reports and liaisons from other groups | 1454 (reply to 1422), 1522 (reply to 1422), 1617 (reply to 1413), 1619 (reply to 1413) |
| 10.4 | CRs to completed features in Release 18 and earlier | 1385, 1408, 1441, 1455, 1602, 1603, 1654 |
| 10.5 | SR\_IMS (Split rendering over IMS) | 1514, 1532, 1550, 1564, 16151562 |
| 10.6 | FS\_5G\_RTP\_Ph2 (Study of 5G Real-time Transport Protocol Configurations, Phase 2) | 1405, 1439, 1444, 1445, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1486, 1497, 1498, 1499, 1501, 1502, 1503, 1523, 1538, 1589, 1610, 1611~~1500, 1579, 1581~~ |
| 10.7 | Other Rel-19 matters including TEI | 1442 |
| 10.8 | Any Other Business |  |
| 10.9 | Close of the session |  |

# Annex B: List of participants

37 delegates joined the RTC SWG online sessions.

|  |  |
| --- | --- |
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| Yousef Abdelmalek(Meta) |  |
| Yujian YIN （CMCC） |  |

# Annex C: TDoc Status

Tdocs available at: [3gpp.org TSG\_SA WG4\_CODEC TSGS4\_129-e Docs](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_129-e)

## C.1 Agreed not presented

|  |  |  |  |
| --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Contact** |
| [**S4-241550**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241550.zip) | [SR\_IMS]Editorial updates to TS 26.567 | Nokia | Xuan (Shane) He |
| [**S4-241728**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241728.zip) | [SR\_IMS] pCR Network Centric Procedures | Nokia | Gazi Karam Illahi |
| [**S4-241731**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241731.zip) | [SR\_IMS]General procedures for session modifications | Nokia | Daniel Philip VENMANI |
| [**S4-241735**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241735.zip) | [SR\_IMS] Metadata formats | InterDigital Communications | Srinivas Gudumasu |
| [**S4-241444**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241444.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #1 Description PDU Set Size | Huawei, Hisilicon | Rufail Mekuria |
| [**S4-241497**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241497.zip) | [FS\_5G\_RTP\_Ph2] Update on the PDU Set Size information correction by indicating the remaining PDU Set Size in RTP header extension | QUALCOMM Europe Inc. - Italy | Ma Liangping |
| [**S4-241503**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241503.zip) | [FS\_5G\_RTP\_Ph2] AL-FEC awareness at RAN while considering upstream and downstream packet losses | QUALCOMM Europe Inc. - Italy | Ma Liangping |
| [**S4-241538**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241538.zip) | [FS\_5G\_RTP\_Ph2] updates on text on KI #4 AL-FEC | Huawei, Hisilicon, Qualcomm Inc | Rufail Mekuria |
| [**S4-241649**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241649.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #9 RTP Multiplexing KI Description text update | Huawei, Hisilicon | Rufail Mekuria |
| [**S4-241650**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241650.zip) | [FS\_5G\_RTP\_Ph2] KI#14 – MID Packet filtering | BEIJING SAMSUNG TELECOM R&D | Hakju Ryan Lee |
| [**S4-241651**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241651.zip) | [FS\_5G\_RTP\_Ph2] Solution KI#8: PSI indication to optimize RTP retransmission | Nokia | Serhan Gül |
| [**S4-241657**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241657.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #15 Description text update | Huawei, Hisilicon, Nokia | Rufail Mekuria |
| [**S4-241658**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241658.zip) | [FS\_5G\_RTP\_ph2] terms and abbreviation | Huawei, Hisilicon | Rufail Mekuria |
| [**S4-241659**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241659.zip) | [FS\_5G\_RTP\_PH2] KI#12 Solution Dynamic Traffic Characteristics of RTP Senders. | Huawei, Hisilicon | Rufail Mekuria |
| [**S4-241660**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241660.zip) | [FS\_5G\_RTP\_Ph2] Candidate RTCP messages and RTP header extensions to support XR services in 5G | InterDigital Communications | Srinivas Gudumasu |
| [**S4-241663**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241663.zip) | [FS\_5G\_RTP\_Ph2] Overhead of Application-layer FEC | QUALCOMM Europe Inc. - Italy | Ma Liangping |
| [**S4-241747**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241747.zip) | [FS\_5G\_RTP\_Ph2] Solution KI#2: PSI signaling for lone PDUs | Nokia | Serhan Gül |
| [**S4-241749**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241749.zip) | [FS\_5G\_RTP\_PH2] KI#12 solution RTP Header Extension for Dynamic Traffic Characteristics | Huawei, Hisilicon | Rufail Mekuria |
| [**S4-241751**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241751.zip) | [FS\_5G\_RTP\_Ph2] Improvements to text on description of KI#2 QoS Handling Requirements for Lonely PDU | Huawei, Hisilicon | Rufail Mekuria |
| [**S4-241763**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241763.zip) | [FS\_5G\_RTP\_Ph2] Congestion control enhancements for AL-FEC awareness | QUALCOMM Europe Inc. - Italy | Ma Liangping |
| [**S4-241764**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241764.zip) | [FS\_5G\_RTP\_Ph2] On the feasibility of Application-layer FEC Awareness for PDU Set handling | QUALCOMM Europe Inc. - Italy | Ma Liangping |

## C.2 Agreed/Endorsed to be presented

|  |  |  |  |
| --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Contact** |
| [**S4-241671**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241671.zip) | Reply LS on Binding Information | Ericsson France S.A.S | Bo Burman |
| [**S4-241684**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241684.zip) | LS Reply on Newly Published data channel GSMA PRD TS.66 | Huawei Technologies R&D UK | Huan-yu Su |
| [**S4-241408**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241408.zip) | Update on obsoleted reference | BEIJING SAMSUNG TELECOM R&D | Hakju Ryan Lee |
| [**S4-241654**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241654.zip) | [iRTCW] Clarification on Metrics URIs | InterDigital Comunications, BBC | Srinivas Gudumasu |
| [**S4-241673**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241673.zip) | [iRTCW, 5GMS\_Pro\_Ph2] Dynamic Policies API usage | BBC | Richard Bradbury |
| [**S4-241681**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241681.zip) | [GA4RTAR] Clarification on metrics and consumption collection and reporting procedures | InterDigital Comunications, BBC | Srinivas Gudumasu |
| [**S4-241683**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241683.zip) | [iRTCW] Clarification on Metrics collection | InterDigital Comunications, BBC | Srinivas Gudumasu |
| [**S4-241741**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241741.zip) | Terminology correction | NTT | Rihito Suzuki |
| [**S4-241455**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241455.zip) | Editorial Corrections to TS 26.264 | Nokia | Serhan Gül |
| [**S4-241675**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241675.zip) | Clarifications on SDP settings at DCMTSI client. | NTT | Yoshihiro Inoue |
| [**S4-241737**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241737.zip) | [SR\_IMS] Proposed Updated Work Plan | Nokia | Xuan (Shane) He |
| [**S4-241754**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241754.zip) | 5G\_RTP\_Ph2 SID Time plan v. 0.0.5 | Nokia UK | Igor Curcio |

## C.3 Not agreed to be presented

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| --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Contact** |
| S4-241776 | LS Reply on FS\_XRM\_Ph2 | Nokia | Serhan Gül |
| [S4-241767](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241767.zip) | [Draft] LS on Application-Layer FEC Awareness at RAN | QUALCOMM Europe Inc. - Italy | Ma Liangping |
| S4-241739 | [SR\_IMS]Draft TS 26.567 Split Rendering over IMS v0.3.0 | Nokia | Xuan (Shane) He |
| S4-241672 | TR 26.822 v.0.2.0 | Nokia UK | Igor Curcio |

## C.4 Not agreed not presented

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| **TDoc** | **Title** | **Source** | **Contact** | **TDoc Status** |
| [**S4-241454**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241454.zip) | Draft LS reply to SA2 on Periodicity and Time to Next Burst | Nokia | Serhan Gül | **revised** |
| [**S4-241522**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241522.zip) | Reply LS on FS\_XRM Ph2 | Huawei, HiSilicon | Qi Pan | **merged** |
| [**S4-241617**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241617.zip) | LS Reply on Application-Layer FEC Awareness at RAN | QUALCOMM Europe Inc. - Italy | Ma Liangping | **merged** |
| [**S4-241619**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241619.zip) | [Draft] LS Reply on Application-Layer FEC Awareness at RAN | QUALCOMM Europe Inc. - Italy | Ma Liangping | **revised** |
| [**S4-241385**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241385.zip) | [iRTCW] Dynamic Policies API usage | BBC | Richard Bradbury | **revised** |
| [**S4-241441**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241441.zip) | Terminology correction | NTT | Rihito Suzuki | **revised** |
| [**S4-241602**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241602.zip) | [GA4RTAR] Clarification on metrics and consumption collection and reporting procedures | InterDigital Comunications, BBC | Srinivas Gudumasu | **revised** |
| [**S4-241603**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241603.zip) | [iRTCW] Clarification on Metrics collection | InterDigital Comunications, BBC | Srinivas Gudumasu | **revised** |
| [**S4-241606**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241606.zip) | Metrics reporting configuration updates | InterDigital Comunications, BBC | Srinivas Gudumasu | **revised** |
| [**S4-241514**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241514.zip) | [SR\_IMS] Enabling Generic IMS-based Split Rendering | Qualcomm France | Imed Bouazizi | **revised** |
| [**S4-241532**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241532.zip) | [SR\_IMS] pCR Network Centric Procedures | Nokia | Gazi Karam Illahi | **revised** |
| [**S4-241562**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241562.zip) | [SR\_IMS] Proposed Updated Work Plan | Nokia | Xuan (Shane) He | **revised** |
| [**S4-241564**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241564.zip) | [SR\_IMS]General procedures for session modifications | Nokia | Daniel Philip VENMANI | **revised** |
| [**S4-241615**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241615.zip) | [SR\_IMS] Metadata formats | InterDigital Communications | Srinivas Gudumasu | **revised** |
| [**S4-241693**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241693.zip) | [SR\_IMS] Enabling Generic IMS-based Split Rendering | Qualcomm France | Imed Bouazizi | **noted** |
| [**S4-241405**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241405.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #1 Description PDU Set Size | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241439**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241439.zip) | [FS\_5G\_RTP\_Ph2] KI#14 – MID Packet filtering | BEIJING SAMSUNG TELECOM R&D | Hakju Ryan Lee | **revised** |
| [**S4-241445**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241445.zip) | [FS\_5G\_RTP\_Ph2] Improvements to text on description of KI#2 QoS Handling Requirements for Lonely PDU | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241447**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241447.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #9 RTP Multiplexing KI Description text update | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241448**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241448.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #13 Description text update to account for pdu set with multiple different media types | Huawei, Hisilicon | Rufail Mekuria | **noted** |
| [**S4-241449**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241449.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #15 Description text update | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241450**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241450.zip) | [FS\_5G\_RTP\_PH2] KI#12 Solution Dynamic Traffic Characteristics of RTP Senders. | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241451**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241451.zip) | [FS\_5G\_RTP\_PH2] KI#12 solution RTP Header Extension for Dynamic Traffic Characteristics | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241452**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241452.zip) | [FS\_5G\_RTP\_Ph2] Solution KI#2: PSI signaling for lone PDUs | Nokia | Serhan Gül | **revised** |
| [**S4-241453**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241453.zip) | [FS\_5G\_RTP\_Ph2] Solution KI#8: PSI indication to optimize RTP retransmission | Nokia | Serhan Gül | **revised** |
| [**S4-241486**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241486.zip) | TR 26.822 v.0.1.1 | Nokia UK | Igor Curcio | **revised** |
| [**S4-241498**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241498.zip) | [FS\_5G\_RTP\_Ph2] Control-Plane Solution to the Key Issue on Enhancements of Data Burst Marking | QUALCOMM Europe Inc. - Italy | Ma Liangping | **noted** |
| [**S4-241499**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241499.zip) | [FS\_5G\_RTP\_Ph2] Overhead of Application-layer FEC | QUALCOMM Europe Inc. - Italy | Ma Liangping | **revised** |
| [**S4-241501**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241501.zip) | FS\_5G\_RTP\_Ph2] Candidate RTCP messages and RTP header extensions to support XR services in 5G | QUALCOMM Incorporated, Lenovo | Ma Liangping | **merged** |
| [**S4-241502**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241502.zip) | [FS\_5G\_RTP\_Ph2] Congestion control enhancements for AL-FEC awareness | QUALCOMM Europe Inc. - Italy | Ma Liangping | **revised** |
| [**S4-241523**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241523.zip) | [FS\_5G\_RTP\_Ph2]\_update of Sol#2 on lonely PDU | Huawei, HiSilicon | Qi Pan | **noted** |
| [**S4-241589**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241589.zip) | [FS\_5G\_RTP\_Ph2] On the feasibility of Application-layer FEC Awareness for PDU Set handling | QUALCOMM Europe Inc. - Italy | Ma Liangping | **revised** |
| [**S4-241610**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241610.zip) | [FS\_5G\_RTP\_Ph2] Candidate RTCP messages and RTP header extensions to support XR services in 5G | InterDigital Communications | Srinivas Gudumasu | **revised** |
| [**S4-241611**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241611.zip) | [5G\_RTP\_Ph2] RTCP congestion control feedback message for XR services | InterDigital Communications | Srinivas Gudumasu | **merged** |
| [**S4-241700**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241700.zip) | 5G\_RTP\_Ph2 SID Time plan v. 0.0.4 | Nokia UK | Igor Curcio | **revised** |
| [**S4-241442**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241442.zip) | Clarifications on SDP settings at DCMTSI client. | NTT | Yoshihiro Inoue | **revised** |
| [**S4-241737**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241737.zip) | [SR\_IMS] Proposed Updated Work Plan | Nokia | Xuan (Shane) He | **available** |
| [**S4-241412**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241412.zip) | Reply LS to SA2 on FS\_XRM PH2 | RAN WG2 | Andrijana Brekalo | **noted** |
| [**S4-241413**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241413.zip) | Reply LS on Application-Layer FEC Awareness at RAN | RAN WG2 | Andrijana Brekalo | **noted** |
| [**S4-241419**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241419.zip) | LS on Binding information | SA WG2 | Andrijana Brekalo | **noted** |
| [**S4-241420**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241420.zip) | LS on Clarification of DC Binding Information | SA WG2 | Andrijana Brekalo | **postponed** |
| [**S4-241422**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241422.zip) | LS on FS\_XRM Ph2 | SA WG2 | Andrijana Brekalo | **noted** |
| [**S4-241435**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241435.zip) | Newly published data channel GSMA PRD TS.66 | GSMA | Andrijana Brekalo | **noted** |

## C.5 TDoc List and Status

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| --- | --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Contact** | **TDoc Status** |
| [**S4-241385**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241385.zip) | [iRTCW] Dynamic Policies API usage | BBC | Richard Bradbury | **revised** |
| [**S4-241405**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241405.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #1 Description PDU Set Size | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241408**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241408.zip) | Update on obsoleted reference | BEIJING SAMSUNG TELECOM R&D | Hakju Ryan Lee | **agreed** |
| [**S4-241412**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241412.zip) | Reply LS to SA2 on FS\_XRM PH2 | RAN WG2 | Andrijana Brekalo | **noted** |
| [**S4-241413**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241413.zip) | Reply LS on Application-Layer FEC Awareness at RAN | RAN WG2 | Andrijana Brekalo | **noted** |
| [**S4-241419**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241419.zip) | LS on Binding information | SA WG2 | Andrijana Brekalo | **noted** |
| [**S4-241420**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241420.zip) | LS on Clarification of DC Binding Information | SA WG2 | Andrijana Brekalo | **postponed** |
| [**S4-241422**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241422.zip) | LS on FS\_XRM Ph2 | SA WG2 | Andrijana Brekalo | **noted** |
| [**S4-241435**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241435.zip) | Newly published data channel GSMA PRD TS.66 | GSMA | Andrijana Brekalo | **noted** |
| [**S4-241439**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241439.zip) | [FS\_5G\_RTP\_Ph2] KI#14 – MID Packet filtering | BEIJING SAMSUNG TELECOM R&D | Hakju Ryan Lee | **revised** |
| [**S4-241441**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241441.zip) | Terminology correction | NTT | Rihito Suzuki | **revised** |
| [**S4-241442**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241442.zip) | Clarifications on SDP settings at DCMTSI client. | NTT | Yoshihiro Inoue | **revised** |
| [**S4-241444**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241444.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #1 Description PDU Set Size | Huawei, Hisilicon | Rufail Mekuria | **agreed** |
| [**S4-241445**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241445.zip) | [FS\_5G\_RTP\_Ph2] Improvements to text on description of KI#2 QoS Handling Requirements for Lonely PDU | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241447**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241447.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #9 RTP Multiplexing KI Description text update | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241448**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241448.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #13 Description text update to account for pdu set with multiple different media types | Huawei, Hisilicon | Rufail Mekuria | **noted** |
| [**S4-241449**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241449.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #15 Description text update | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241450**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241450.zip) | [FS\_5G\_RTP\_PH2] KI#12 Solution Dynamic Traffic Characteristics of RTP Senders. | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241451**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241451.zip) | [FS\_5G\_RTP\_PH2] KI#12 solution RTP Header Extension for Dynamic Traffic Characteristics | Huawei, Hisilicon | Rufail Mekuria | **revised** |
| [**S4-241452**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241452.zip) | [FS\_5G\_RTP\_Ph2] Solution KI#2: PSI signaling for lone PDUs | Nokia | Serhan Gül | **revised** |
| [**S4-241453**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241453.zip) | [FS\_5G\_RTP\_Ph2] Solution KI#8: PSI indication to optimize RTP retransmission | Nokia | Serhan Gül | **revised** |
| [**S4-241454**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241454.zip) | Draft LS reply to SA2 on Periodicity and Time to Next Burst | Nokia | Serhan Gül | **revised** |
| [**S4-241486**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241486.zip) | TR 26.822 v.0.1.1 | Nokia UK | Igor Curcio | **revised** |
| [**S4-241497**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241497.zip) | [FS\_5G\_RTP\_Ph2] Update on the PDU Set Size information correction by indicating the remaining PDU Set Size in RTP header extension | QUALCOMM Europe Inc. - Italy | Ma Liangping | **agreed** |
| [**S4-241498**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241498.zip) | [FS\_5G\_RTP\_Ph2] Control-Plane Solution to the Key Issue on Enhancements of Data Burst Marking | QUALCOMM Europe Inc. - Italy | Ma Liangping | **noted** |
| [**S4-241499**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241499.zip) | [FS\_5G\_RTP\_Ph2] Overhead of Application-layer FEC | QUALCOMM Europe Inc. - Italy | Ma Liangping | **revised** |
| [**S4-241501**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241501.zip) | FS\_5G\_RTP\_Ph2] Candidate RTCP messages and RTP header extensions to support XR services in 5G | QUALCOMM Incorporated, Lenovo | Ma Liangping | **merged** |
| [**S4-241502**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241502.zip) | [FS\_5G\_RTP\_Ph2] Congestion control enhancements for AL-FEC awareness | QUALCOMM Europe Inc. - Italy | Ma Liangping | **revised** |
| [**S4-241503**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241503.zip) | [FS\_5G\_RTP\_Ph2] AL-FEC awareness at RAN while considering upstream and downstream packet losses | QUALCOMM Europe Inc. - Italy | Ma Liangping | **agreed** |
| [**S4-241514**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241514.zip) | [SR\_IMS] Enabling Generic IMS-based Split Rendering | Qualcomm France | Imed Bouazizi | **revised** |
| [**S4-241522**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241522.zip) | Reply LS on FS\_XRM Ph2 | Huawei, HiSilicon | Qi Pan | **merged** |
| [**S4-241523**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241523.zip) | [FS\_5G\_RTP\_Ph2]\_update of Sol#2 on lonely PDU | Huawei, HiSilicon | Qi Pan | **noted** |
| [**S4-241532**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241532.zip) | [SR\_IMS] pCR Network Centric Procedures | Nokia | Gazi Karam Illahi | **revised** |
| [**S4-241538**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241538.zip) | [FS\_5G\_RTP\_Ph2] updates on text on KI #4 AL-FEC | Huawei, Hisilicon, Qualcomm Inc | Rufail Mekuria | **agreed** |
| [**S4-241550**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241550.zip) | [SR\_IMS]Editorial updates to TS 26.567 | Nokia | Xuan (Shane) He | **agreed** |
| [**S4-241562**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241562.zip) | [SR\_IMS] Proposed Updated Work Plan | Nokia | Xuan (Shane) He | **revised** |
| [**S4-241564**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241564.zip) | [SR\_IMS]General procedures for session modifications | Nokia | Daniel Philip VENMANI | **revised** |
| [**S4-241589**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241589.zip) | [FS\_5G\_RTP\_Ph2] On the feasibility of Application-layer FEC Awareness for PDU Set handling | QUALCOMM Europe Inc. - Italy | Ma Liangping | **revised** |
| [**S4-241602**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241602.zip) | [GA4RTAR] Clarification on metrics and consumption collection and reporting procedures | InterDigital Comunications, BBC | Srinivas Gudumasu | **revised** |
| [**S4-241603**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241603.zip) | [iRTCW] Clarification on Metrics collection | InterDigital Comunications, BBC | Srinivas Gudumasu | **revised** |
| [**S4-241606**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241606.zip) | Metrics reporting configuration updates | InterDigital Comunications, BBC | Srinivas Gudumasu | **revised** |
| [**S4-241610**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241610.zip) | [FS\_5G\_RTP\_Ph2] Candidate RTCP messages and RTP header extensions to support XR services in 5G | InterDigital Communications | Srinivas Gudumasu | **revised** |
| [**S4-241611**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241611.zip) | [5G\_RTP\_Ph2] RTCP congestion control feedback message for XR services | InterDigital Communications | Srinivas Gudumasu | **merged** |
| [**S4-241615**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241615.zip) | [SR\_IMS] Metadata formats | InterDigital Communications | Srinivas Gudumasu | **revised** |
| [**S4-241617**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241617.zip) | LS Reply on Application-Layer FEC Awareness at RAN | QUALCOMM Europe Inc. - Italy | Ma Liangping | **merged** |
| [**S4-241619**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241619.zip) | [Draft] LS Reply on Application-Layer FEC Awareness at RAN | QUALCOMM Europe Inc. - Italy | Ma Liangping | **revised** |
| [**S4-241649**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241649.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #9 RTP Multiplexing KI Description text update | Huawei, Hisilicon | Rufail Mekuria | **agreed** |
| [**S4-241650**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241650.zip) | [FS\_5G\_RTP\_Ph2] KI#14 – MID Packet filtering | BEIJING SAMSUNG TELECOM R&D | Hakju Ryan Lee | **agreed** |
| [**S4-241651**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241651.zip) | [FS\_5G\_RTP\_Ph2] Solution KI#8: PSI indication to optimize RTP retransmission | Nokia | Serhan Gül | **agreed** |
| [**S4-241654**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241654.zip) | [iRTCW] Clarification on Metrics URIs | InterDigital Comunications, BBC | Srinivas Gudumasu | **agreed** |
| [**S4-241657**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241657.zip) | [FS\_5G\_RTP\_Ph2] Key Issue #15 Description text update | Huawei, Hisilicon, Nokia | Rufail Mekuria | **agreed** |
| [**S4-241658**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241658.zip) | [FS\_5G\_RTP\_ph2] terms and abbreviation | Huawei, Hisilicon | Rufail Mekuria | **agreed** |
| [**S4-241659**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241659.zip) | [FS\_5G\_RTP\_PH2] KI#12 Solution Dynamic Traffic Characteristics of RTP Senders. | Huawei, Hisilicon | Rufail Mekuria | **agreed** |
| [**S4-241660**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241660.zip) | [FS\_5G\_RTP\_Ph2] Candidate RTCP messages and RTP header extensions to support XR services in 5G | InterDigital Communications | Srinivas Gudumasu | **agreed** |
| [**S4-241663**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241663.zip) | [FS\_5G\_RTP\_Ph2] Overhead of Application-layer FEC | QUALCOMM Europe Inc. - Italy | Ma Liangping | **agreed** |
| [**S4-241671**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241671.zip) | Reply LS on Binding Information | Ericsson France S.A.S | Bo Burman | **agreed** |
| S4-241672 | TR 26.822 v.0.2.0 | Nokia UK | Igor Curcio | not treated |
| [**S4-241673**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241673.zip) | [iRTCW, 5GMS\_Pro\_Ph2] Dynamic Policies API usage | BBC | Richard Bradbury | **agreed** |
| [**S4-241675**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241675.zip) | Clarifications on SDP settings at DCMTSI client. | NTT | Yoshihiro Inoue | **agreed** |
| [**S4-241681**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241681.zip) | [GA4RTAR] Clarification on metrics and consumption collection and reporting procedures | InterDigital Comunications, BBC | Srinivas Gudumasu | **agreed** |
| [**S4-241683**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241683.zip) | [iRTCW] Clarification on Metrics collection | InterDigital Comunications, BBC | Srinivas Gudumasu | **agreed** |
| [**S4-241684**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241684.zip) | LS Reply on Newly Published data channel GSMA PRD TS.66 | Huawei Technologies R&D UK | Huan-yu Su | **agreed** |
| [**S4-241693**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241693.zip) | [SR\_IMS] Enabling Generic IMS-based Split Rendering | Qualcomm France | Imed Bouazizi | **noted** |
| [**S4-241700**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241700.zip) | 5G\_RTP\_Ph2 SID Time plan v. 0.0.4 | Nokia UK | Igor Curcio | **revised** |
| [**S4-241728**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241728.zip) | [SR\_IMS] pCR Network Centric Procedures | Nokia | Gazi Karam Illahi | **agreed** |
| [**S4-241731**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241731.zip) | [SR\_IMS]General procedures for session modifications | Nokia | Daniel Philip VENMANI | **agreed** |
| [**S4-241735**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241735.zip) | [SR\_IMS] Metadata formats | InterDigital Communications | Srinivas Gudumasu | **agreed** |
| [**S4-241737**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241737.zip) | [SR\_IMS] Proposed Updated Work Plan | Nokia | Xuan (Shane) He | **agreed** |
| S4-241739 | [SR\_IMS]Draft TS 26.567 Split Rendering over IMS v0.3.0 | Nokia | Xuan (Shane) He | not treated |
| [**S4-241741**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241741.zip) | Terminology correction | NTT | Rihito Suzuki | **agreed** |
| [**S4-241747**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241747.zip) | [FS\_5G\_RTP\_Ph2] Solution KI#2: PSI signaling for lone PDUs | Nokia | Serhan Gül | **agreed** |
| [**S4-241749**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241749.zip) | [FS\_5G\_RTP\_PH2] KI#12 solution RTP Header Extension for Dynamic Traffic Characteristics | Huawei, Hisilicon | Rufail Mekuria | **agreed** |
| [**S4-241751**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241751.zip) | [FS\_5G\_RTP\_Ph2] Improvements to text on description of KI#2 QoS Handling Requirements for Lonely PDU | Huawei, Hisilicon | Rufail Mekuria | **agreed** |
| [**S4-241754**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241754.zip) | 5G\_RTP\_Ph2 SID Time plan v. 0.0.5 | Nokia UK | Igor Curcio | **agreed** |
| [**S4-241763**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241763.zip) | [FS\_5G\_RTP\_Ph2] Congestion control enhancements for AL-FEC awareness | QUALCOMM Europe Inc. - Italy | Ma Liangping | **agreed** |
| [**S4-241764**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241764.zip) | [FS\_5G\_RTP\_Ph2] On the feasibility of Application-layer FEC Awareness for PDU Set handling | QUALCOMM Europe Inc. - Italy | Ma Liangping | **agreed** |
| [**S4-241767**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_129-e/Docs/S4-241767.zip) | [Draft] LS on Application-Layer FEC Awareness at RAN | QUALCOMM Europe Inc. - Italy | Ma Liangping | **not treated** |

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