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

**Meeting Report  
for  
TSG SA WG3  
meeting: 113**

**Chicago, US, 06/11/2023 to 10/11/2023**

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## 1 Agenda and Meeting Objectives

The attention of the delegates to the meeting of this Technical Specification 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 Chairman and Vice-Chairmen 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 meetings was important to allow for full and fair consideration of such matters.

**S3-234400 Agenda**

*Type: agenda For: (not specified)  
 Source: SA WG3 Chair*

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

**S3-234402 Process for SA3#113**

*Type: other For: (not specified)  
 Source: SA WG3 Chair*

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

**S3-234403 Detail agenda planning for SA3#113**

*Type: other For: (not specified)  
 Source: SA WG3 Chair*

**Decision:** The document was **revised to S3-234985**.

**S3-234985 Detail agenda planning for SA3#113**

*Type: other For: -  
 Source: SA WG3 Chair*

(Replaces S3-234403)

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

## 2 Meeting Reports

**S3-234401 Report from SA3#112**

*Type: report For: (not specified)  
 Source: MCC*

**Decision:** The document was **revised to S3-234986**.

**S3-234986 Report from SA3#112**

*Type: report For: -  
 Source: MCC*

(Replaces S3-234401)

**Discussion:**

Incorporating comments from Qualcomm.

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

**S3-234405 Report to SA3 from SA**

*Type: report For: (not specified)  
 Source: SA WG3 Chair*

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

## 3 Reports and Liaisons from other Groups

**S3-234978 SAGE-23-02 Resynchronisation protection f5\*\* for MILENAGE-128 and Tuak.**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ETSI SAGE*

**Discussion:**

It was queried whether this should be incorporated in a new specification or be part of an existing specification. This needed some moe time to be analised.

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

**S3-234471 Reply LS on security for selective SCG activation**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2309268*

**Decision:** The document was **replied to in S3-235051**.

**S3-234979 Reply LS on security for selective SCG activation**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2311618*

**Decision:** The document was **replied to in S3-235051**.

**S3-234437 Reply LS on Security Solution for Selective SCG**

*Type: LS out For: (not specified)  
 to 3GPP RAN WG2, cc 3GPP RAN WG3  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235051**.

**S3-235051 Reply LS on Security Solution for Selective SCG**

*Type: LS out For: -  
 to 3GPP RAN WG2, cc 3GPP RAN WG3  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234437)

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

**S3-234647 Draft LS reply on security for selective SCG activation**

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

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

**S3-234649 Update on the procedures of Security of Selective SCG Activation**

*Type: other For: Approval  
 33.501 v..  
 Source: Huawei, HiSilicon*

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

**S3-234441 LS reply to S3-233786 and S3-234296 on the introduction of the domain ""ipxnetwork.org"" and clarifications of the Outsourced SEPP and Hosted SEPP deployment scenarios**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

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

**S3-234693 LS reply on SCPAC security**

*Type: LS out For: Approval  
 to RAN2  
 Source: OPPO*

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

**S3-234442 N32-f Lifetime and Reconnection**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

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

**S3-234443 N32-f N32-c correlation**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

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

**S3-234444 LS on Educational paper on N32 connection establishment for bilateral TLS**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

**Decision:** The document was **replied to in S3-235068**.

**S3-234861 DP on Educational Paper N32 connection establishment for bilateral TLS**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235112**.

**S3-235112 DP on Educational Paper N32 connection establishment for bilateral TLS**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234861)

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

**S3-234862 LS-Reply on N32 connection establishment for bilateral TLS**

*Type: LS out For: Approval  
 to GSMA NG 5GMRR, CT4  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235068**.

**S3-235068 LS-Reply on N32 connection establishment for bilateral TLS**

*Type: LS out For: Approval  
 to GSMA NG 5GMRR, cc CT4  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234862)

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

**S3-234445 LS on Handling of SOR counter and the UE parameter update counter if stored in NVM**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-232696*

**Decision:** The document was **replied to in S3-235053**.

**S3-234656 Draft reply LS on NVM issue**

*Type: LS out For: Approval  
 to CT1, cc CT4  
 Source: Huawei, HiSilicon*

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

**S3-234658 Agenda and notes of conference call on the storage of UPU and SoR counters in NVM**

*Type: other For: Information  
 Source: Huawei, HiSilicon*

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

**S3-234670 Reply LS on Handling of SOR counter and the UE parameter update counter if stored in NVM**

*Type: LS out For: Approval  
 to CT1, cc CT4  
 Source: Apple*

**Decision:** The document was **revised to S3-235053**.

**S3-235053 Reply LS on Handling of SOR counter and the UE parameter update counter if stored in NVM**

*Type: LS out For: Approval  
 to CT1, cc CT4,CT6  
 Source: Apple*

(Replaces S3-234670)

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

**S3-234682 Handling of SoR counter and UE parameter update counter in NVM**

*Type: discussion For: Approval  
 Source: THALES*

**Abstract:**

Handling of SoR counter and UE parameter update counter in NVM

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

**S3-234837 Discussion paper on handling of SOR and UPU counter if stored in NVM**

*Type: discussion For: Discussion  
 Source: Samsung*

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

**S3-234446 Reply LS on UPU enhancement**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-235532*

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

**S3-234447 Reply LS on Mitigation of Downgrade attacks**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-236517*

**Decision:** The document was **replied to in S3-234991**.

**S3-234878 LS reply for Reply LS on Mitigation of Downgrade attacks**

*Type: LS out For: Approval  
 to CT1, cc RAN2  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: legacy equipment turned off so the network no longer offers 2G/3G service, it’s actually better this way.

**Decision:** The document was **revised to S3-234991**.

**S3-234906 [Draft] Reply LS on supporting resource owner-aware northbound API access**

*Type: LS out For: Approval  
 to CT3, cc SA6  
 Source: Xiaomi communications*

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

**S3-234991 LS reply for Reply LS on Mitigation of Downgrade attacks**

*Type: LS out For: Approval  
 to CT1, cc RAN2  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234878)

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

**S3-234448 LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-236521*

**Decision:** The document was **replied to in S3-235071**.

**S3-235071 Reply to: LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE**

*Type: LS out For: approval  
 to CT1, cc SA2  
 Source: Nokia*

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

**S3-234483 LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2311800*

**Decision:** The document was **replied to in S3-235071**.

**S3-234535 Reply LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE**

*Type: LS out For: Approval  
 to CT1, cc SA2  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234453 LS on Retrieving keys for decryption of protected IEs for U2N relay**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-234362*

**Decision:** The document was **replied to in S3-235098**.

**S3-234520 Reply LS on Retrieving keys for decryption of protected IEs for U2N relay**

*Type: LS out For: Approval  
 to CT1  
 Source: InterDigital Finland Oy*

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

**S3-234712 Draft Reply LS on Retrieving keys for decryption of protected IEs for U2N relay**

*Type: LS out For: Approval  
 to CT1  
 Source: Qualcomm Incorporated*

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

**S3-234729 LS reply on LS on Retrieving keys for decryption of protected IEs for U2N relay**

*Type: LS out For: Approval  
 to CT1  
 Source: Ericsson*

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

**S3-234904 Reply LS on Retrieving keys for decryption of protected IEs for U2N relay**

*Type: LS out For: Approval  
 to CT1  
 Source: Beijing Xiaomi Mobile Software*

**Discussion:**

Interdigital: there are other proposals on the table. This solution opens up to attacks and is not efficient at all.

**Decision:** The document was **revised to S3-235098**.

**S3-235098 Reply LS on Retrieving keys for decryption of protected IEs for U2N relay**

*Type: LS out For: Approval  
 to CT1, cc SA2  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-234904)

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

**S3-234454 LS on security for 5G ProSe UE-to-network relay discovery**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-237900*

**Decision:** The document was **replied to in S3-234992**.

**S3-234692 LS reply on security for 5G ProSe UE-to-network relay discovery**

*Type: LS out For: Approval  
 to CT1  
 Source: OPPO*

**Decision:** The document was **revised to S3-234992**.

**S3-234992 LS reply on security for 5G ProSe UE-to-network relay discovery**

*Type: LS out For: Approval  
 to CT1, cc SA2  
 Source: OPPO*

(Replaces S3-234692)

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

**S3-234905 Reply LS on Security for 5G ProSe UE-to-Network Relay Discovery**

*Type: LS out For: Approval  
 to CT1  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-234455 LS on key and security materials used for Ranging\_SL**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-237928*

**Decision:** The document was **replied to in S3-235075**.

**S3-234760 LS reply on key and security materials used for Ranging\_SL**

*Type: LS out For: Approval  
 to CT1  
 Source: OPPO*

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

**S3-234883 [Draft] Reply LS on key and security materials used for Ranging\_SL**

*Type: LS out For: Approval  
 to CT1, cc SA2  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-235075**.

**S3-235075 Reply LS on key and security materials used for Ranging\_SL**

*Type: LS out For: Approval  
 to CT1, cc SA2  
 Source: Xiaomi Technology*

(Replaces S3-234883)

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

**S3-234456 LS on supporting resource owner-aware northbound API access**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-234640*

**Decision:** The document was **replied to in S3-235003**.

**S3-234613 LS-reply to CT3 on SNAAPPY**

*Type: LS out For: Approval  
 to CT3, cc SA6  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-235003**.

**S3-235003 LS-reply to CT3 on SNAAPPY**

*Type: LS out For: Approval  
 to CT3, cc SA6  
 Source: Huawei, HiSilicon*

(Replaces S3-234613)

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

**S3-234457 LS on AKMA service restrictions in Rel-17**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-232563*

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

**S3-234988 Reply to: LS on AKMA service restrictions in Rel-17**

*Type: LS out For: approval  
 to C3-232563  
 Source: Nokia*

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

**S3-234531 LS reply on AKMA service restrictions in Rel-17**

*Type: LS out For: Approval  
 to CT3, cc SA2  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234748 [draft] LS on Draft Reply LS on AKMA service restrictions**

*Type: LS out For: Approval  
 to CT3, cc SA2  
 Source: China Mobile*

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

**S3-234840 Reply LS on AKMA service restrictions in Rel-17**

*Type: LS out For: Approval  
 to CT3, SA3-LI, cc SA2  
 Source: NDRE, NTAC, PIDS, Security Service*

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

**S3-234458 IETF HTTP RFCs obsoleted by RFCs 9110, 9111 and 9113**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-233513*

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

**S3-234659 HTTP RFC obsoleted by IETF RFC 9110**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0195 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

It was commented that there may be remaining specifications that are impacted by this. Companies were requested to check it out for the next meeting cycle.

It was asked if it was appropriate to replace the reference like this instead of voiding, but Nokia replied that this is the way CT4 had done it.

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

**S3-234660 HTTP RFC obsoleted by IETF RFC 9113**

*Type: CR For: Agreement  
 33.310 v18.1.0 CR-0174 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234661 HTTP RFCs obsoleted by IETF RFC 9110**

*Type: CR For: Agreement  
 33.220 v18.1.0 CR-0225 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234662 HTTP RFC obsoleted by IETF RFC 9113**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1831 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234459 Reply LS on Authorization of NF service consumers for data access via DCCF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-233596*

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

**S3-234792 Discussion on the authentication result removal operation**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-234462 LS on Authentication Result Removal**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-224418*

**Decision:** The document was **replied to in S3-235099**.

**S3-234793 Reply LS on Authentication Result Removal**

*Type: LS out For: Approval  
 to CT4  
 Source: Ericsson*

**Decision:** The document was **revised to S3-235099**.

**S3-235099 Reply LS on Authentication Result Removal**

*Type: LS out For: Approval  
 to CT4  
 Source: Ericsson*

(Replaces S3-234793)

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

**S3-234463 LS on Removal of the uavAuthenticated IE from Create SM Context Request**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-230790*

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

**S3-234937 Response LS to C4-230790**

*Type: LS out For: Approval  
 to CT4, cc SA2, CT1  
 Source: Lenovo*

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

**S3-234478 Reply LS on Clarification on Removal of the Indicator of UUAA result from AMF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2309697*

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

**S3-234610 reply to CT4 on removal of uavAuthenticated IE**

*Type: LS out For: Approval  
 to CT4, cc CT1, SA2  
 Source: Huawei, HiSilicon*

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

**S3-234745 [draft] Reply LS for C4-230790 on Removal of the uavAuthenticated IE from Create SM Context Request\_LS**

*Type: LS out For: Approval  
 to CT4, cc CT1, SA2  
 Source: China Mobile*

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

**S3-234468 LS on a Framework for Network Slices in Networks Built from IETF Technologies Submission**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: IETF*

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

**S3-234469 LS on user consent for SON/MDT for NB-IoT UEs**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2309030*

**Decision:** The document was **replied to in S3-235004**.

**S3-234851 LS reply for LS on user consent for SON/MDT for NB-IoT UEs**

*Type: LS out For: Approval  
 to RAN2  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235004**.

**S3-235004 LS reply for LS on user consent for SON/MDT for NB-IoT UEs**

*Type: LS out For: Approval  
 to RAN2, cc SA5  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234851)

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

**S3-234473 LS on Reporting of Relay UE C-RNTI and NCGI**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2- 2306693*

**Decision:** The document was **replied to in S3-235005**.

**S3-234836 Draft\_LS reply for R2- 2306693 on Reporting of Relay UE C-RNTI and NCGI**

*Type: LS out For: Approval  
 to RAN2  
 Source: Samsung*

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

**S3-234646 Draft LS reply on Reporting of Relay UE C-RNTI and NCGI**

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

**Decision:** The document was **revised to S3-235005**.

**S3-235005 LS reply on Reporting of Relay UE C-RNTI and NCGI**

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

(Replaces S3-234646)

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

**S3-234683 LS reply on Reporting of Relay UE C-RNTI and NCGI**

*Type: LS out For: Approval  
 to RAN2  
 Source: OPPO*

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

**S3-234903 Reply LS on Reporting of Relay UE C-RNTI and NCGI**

*Type: LS out For: Approval  
 to RAN2  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-234476 LS on Roaming Hub Requirements**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-232654*

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

**S3-234500 Reply LS on Roaming Hubs**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-231203*

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

**S3-234866 LS on PRINS security profiling**

*Type: LS out For: Approval  
 to GSMA NG 5GMRR  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei preferred to prepare a CR for the next meetng.

**Decision:** The document was **revised to S3-235067**.

**S3-235067 LS on PRINS security profiling**

*Type: LS out For: Approval  
 to GSMA NG 5GMRR  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234866)

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

**S3-234461 LS on modifications for PRINS middle box**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-234666*

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

**S3-234477 DNS over TLS (DoT) and DNS over HTTPS (DoH)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2306210*

**Decision:** The document was **replied to in S3-235073**.

**S3-234780 [Draft] Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH)**

*Type: LS out For: Approval  
 to SA2  
 Source: Ericsson*

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

**S3-234948 Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH)**

*Type: LS out For: Approval  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei,Samsung and Qualcommsupported this approach.

**Decision:** The document was **revised to S3-235073**.

**S3-235073 Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH)**

*Type: LS out For: Approval  
 to SA2  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234948)

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

**S3-234479 Clarification related to reliable location**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2309698*

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

**S3-234547 Reply LS on Clarification related to reliable location**

*Type: LS out For: Approval  
 to SA2, cc SA2  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia commented that there were new solutions proposed in SA2 for Rel-17. They proposed to just to refer to what is written currently in the SA3 specificaitons.

OPPO: we don’t agree with any UE-based solution.

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

**S3-234628 Reply LS on Clarification related to reliable location**

*Type: LS out For: Approval  
 to SA2  
 Source: Huawei, HiSilicon*

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

**S3-234480 Reply LS on LS on UE Ranging/SL Positioning privacy profile**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2309830*

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

**S3-234778 [Draft] Reply LS on Clarification related to reliable location**

*Type: LS out For: Approval  
 to SA2  
 Source: Ericsson*

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

**S3-234813 3 - Reply LS on UE Ranging SL Positioning privacy profile**

*Type: LS out For: Agreement  
 to SA2  
 Source: Philips International B.V.*

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

**S3-234481 Reply LS on Reply LS on security aspects for Ranging/Sidelink Positioning**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2310025*

**Decision:** The document was **replied to in S3-235078**.

**S3-234636 Reply LS on security aspects for Ranging/Sidelink Positioning**

*Type: LS out For: Approval  
 to SA2, cc RAN2  
 Source: Huawei, HiSilicon*

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

**S3-234812 3 - Reply LS on security aspects for Ranging Sidelink Positioning**

*Type: LS out For: Agreement  
 to SA2  
 Source: Philips International B.V.*

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

**S3-234894 [Draft] Reply LS on security aspects for Ranging/Sidelink Positioning**

*Type: LS out For: Approval  
 to SA2  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-235078**.

**S3-235078 Reply LS on security aspects for Ranging/Sidelink Positioning**

*Type: LS out For: Approval  
 to SA2,RAN2  
 Source: Xiaomi Technology*

(Replaces S3-234894)

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

**S3-234485 Reply LS on NSWO support in SNPN using CH AAA server**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2311815*

**Decision:** The document was **replied to in S3-235109**.

**S3-234486 LS on MSISDN exposure to trusted AF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2311893*

**Discussion:**

It was decided to wait for GSMA's reply before acting on this.

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

**S3-234771 Reply LS on MSISDN exposure to trusted AF**

*Type: LS out For: Approval  
 to SA2, cc SA6, GSMA OPG  
 Source: Huawei, HiSilicon*

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

**S3-234783 [Draft] Reply LS on LS on MSISDN exposure to trusted AF**

*Type: LS out For: Approval  
 to SA2, cc SA6, GSMA OPG  
 Source: Ericsson*

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

**S3-234488 Non-Support of Ciphering Algorithm GEA2**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GCF*

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

**S3-234962 Prohibiting GEA1 and GEA2 in devices (Response to LS in S3-234488)**

*Type: discussion For: Agreement  
 Source: VODAFONE*

**Decision:** The document was **revised to S3-234975**.

**S3-234963 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: (not specified)  
 43.020 v6.5.1 CR-0075 Cat: F (Rel-6)  
  
 Source: Vodafone*

**Decision:** The document was **revised to S3-234993**.

**S3-234993 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: -  
 43.020 v6.5.1 CR-0075 rev 1 Cat: F (Rel-6)  
  
 Source: Vodafone*

(Replaces S3-234963)

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

**S3-234964 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v7.3.1 CR-0076 Cat: A (Rel-7)  
  
 Source: VODAFONE*

**Decision:** The document was **revised to S3-234994**.

**S3-234994 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v7.3.1 CR-0076 rev 1 Cat: A (Rel-7)  
  
 Source: VODAFONE*

(Replaces S3-234964)

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

**S3-234965 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v8.0.0 CR-0077 Cat: A (Rel-8)  
  
 Source: Vodafone*

**Decision:** The document was **revised to S3-234995**.

**S3-234995 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v8.0.0 CR-0077 rev 1 Cat: A (Rel-8)  
  
 Source: Vodafone*

(Replaces S3-234965)

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

**S3-234966 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v9.2.0 CR-0078 Cat: A (Rel-9)  
  
 Source: Vodafone*

**Decision:** The document was **revised to S3-234996**.

**S3-234996 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v9.2.0 CR-0078 rev 1 Cat: A (Rel-9)  
  
 Source: Vodafone*

(Replaces S3-234966)

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

**S3-234967 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v10.2.0 CR-0079 Cat: A (Rel-10)  
  
 Source: Vodafone*

**Decision:** The document was **revised to S3-234997**.

**S3-234997 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v10.2.0 CR-0079 rev 1 Cat: A (Rel-10)  
  
 Source: Vodafone*

(Replaces S3-234967)

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

**S3-234969 Prohibition of GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v12.2.0 CR-0081 Cat: F (Rel-12)  
  
 Source: Vodafone*

**Decision:** The document was **revised to S3-234998**.

**S3-234998 Prohibition of GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v12.2.0 CR-0081 rev 1 Cat: A (Rel-12)  
  
 Source: Vodafone*

(Replaces S3-234969)

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

**S3-234970 Prohibition of GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v13.7.0 CR-0082 Cat: A (Rel-13)  
  
 Source: Vodafone*

**Decision:** The document was **revised to S3-234999**.

**S3-234999 Prohibition of GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v13.7.0 CR-0082 rev 1 Cat: A (Rel-13)  
  
 Source: Vodafone*

(Replaces S3-234970)

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

**S3-234971 Prohibition of GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v14.4.0 CR-0083 Cat: A (Rel-14)  
  
 Source: Vodafone*

**Decision:** The document was **revised to S3-235000**.

**S3-235000 Prohibition of GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v14.4.0 CR-0083 rev 1 Cat: A (Rel-14)  
  
 Source: Vodafone*

(Replaces S3-234971)

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

**S3-234972 Prohibition of GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v15.1.0 CR-0084 Cat: A (Rel-15)  
  
 Source: Vodafone*

**Decision:** The document was **revised to S3-235001**.

**S3-235001 Prohibition of GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v15.1.0 CR-0084 rev 1 Cat: A (Rel-15)  
  
 Source: Vodafone*

(Replaces S3-234972)

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

**S3-234974 Prohibition of GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v11.4.0 CR-0080 rev 1 Cat: F (Rel-11)  
  
 Source: Vodafone*

(Replaces S3-234968)

**Decision:** The document was **revised to S3-235002**.

**S3-234975 Prohibiting GEA1 and GEA2 in devices (Response to LS in S3-234488)**

*Type: discussion For: Agreement  
 Source: VODAFONE*

(Replaces S3-234962)

**Discussion:**

GSMA: it is sensible to do this, but we can't force manufacturers to implement specific versions of the specifications. Maybe this can be tied to handset testing work done in GSMA instead.

Ericsson: 21st December 2023 too early?

Qualcomm: by the time these CRs are implemented we already have passed this date.

Apple: we don’t mention dates

MCC agreed that there was no need to put any dates. The prohibition would apply as the specifications were published.

GSMA: consequences if not approved need to be better justified on the cover pages.

MCC commented that Rel-6 and Rel-7 were closed and making CRs for these releases was against 3GPP Working procedures. MCC also commented that the use of the word "prohibited" was more appropriate for regulators but not for standards. Wording such as "shall not be supported" would have been more appropriate. Since the word "prohibited" had been in the spec since very early releases MCC conceded to leave it as it is.

It was decided to agree on the CRs but MCC warned that SA would have to decide on the Rel-6 and Rel-7 issue.

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

**S3-235002 Prohibition of GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v11.4.0 CR-0080 rev 2 Cat: A (Rel-11)  
  
 Source: Vodafone*

(Replaces S3-234974)

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

**S3-234489 LS on LI for AKMA in roaming**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: s3i230421*

**Decision:** The document was **replied to in S3-234987**.

**S3-234987 Reply to: LS on LI for AKMA in roaming**

*Type: LS out For: approval  
 to SA3-LI, cc CT3,GSMA FASG  
 Source: Nokia*

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

**S3-234749 Rely LS on LI for AKMA in roaming**

*Type: LS out For: Approval  
 to SA3-LI, cc GSMA FASG  
 Source: China Mobile*

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

**S3-234846 Response LS on LI for AKMA in roaming**

*Type: LS out For: Approval  
 to SA3-LI, cc GSMA FASG  
 Source: NDRE, NTAC, PIDS, Security Service*

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

**S3-234493 Security for AI ML management capabilities**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-234776*

**Decision:** The document was **replied to in S3-235101**.

**S3-234849 LS reply for Security for AI ML management capabilities**

*Type: LS out For: Approval  
 to SA5  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235101**.

**S3-235101 LS reply for Security for AI ML management capabilities**

*Type: LS out For: Approval  
 to SA5  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234849)

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

**S3-234495 LS on developing a security solution for PINAPP architecture**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-233112*

**Decision:** The document was **replied to in S3-235074**.

**S3-234564 DRAFT LS Reply on developing a security solution for PINAPP architecture**

*Type: LS out For: Approval  
 to SA6, cc SA, CT1, CT3  
 Source: InterDigital Communications*

**Abstract:**

This contribution provides DRAFT LS Reply on developing a security solution for PINAPP architecture.

**Decision:** The document was **revised to S3-235074**.

**S3-235074 LS Reply on developing a security solution for PINAPP architecture**

*Type: LS out For: Approval  
 to SA6, cc SA, CT1, CT3  
 Source: InterDigital Communications*

(Replaces S3-234564)

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

**S3-234565 Discussion Paper on PINAPP Security Approach**

*Type: discussion For: Endorsement  
 Source: InterDigital Communications*

**Abstract:**

This contribution provides relevant discussion points and is seeking SA3 endorsement on the approach for the development of PINAPP security in SA3.

**Discussion:**

Huawei: TLS is enough.

Mike (T-Mobile): CT groups don’t know what to do, that is the issue here.

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

**S3-234496 LS to SA, SA3 and SA5 on potential collaboration between 3GPP SA3/SA5 and ETSI SAI ISG**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ETSI ISG SAI*

**Decision:** The document was **replied to in S3-235007**.

**S3-234751 Reply LS on potential collaboration between 3GPP SA3/SA5 and ETSI SAI ISG**

*Type: LS out For: Approval  
 to ETSI ISG SAI, cc SA5  
 Source: China Mobile*

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

**S3-234506 DRAFT Reply LS on potential collaboration between 3GPP SA3 and ETSI**

*Type: LS out For: Approval  
 to ETSI SAI, cc SA,SA5  
 Source: InterDigital Communications*

**Abstract:**

This contribution provides Draft Reply LS to ETSI SAI. The original incoming LS is in S3-234496 (SAI(23)18a007r4, LS to SA, SA3, and SA5 on potential collaboration between 3GPP SA3/SA5 and ETSI SAI ISG).

**Decision:** The document was **revised to S3-235007**.

**S3-235007 Reply LS on potential collaboration between 3GPP SA3 and ETSI**

*Type: LS out For: Approval  
 to ETSI SAI, cc SA, SA5  
 Source: InterDigital Communications*

(Replaces S3-234506)

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

**S3-234497 LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T*

**Discussion:**

GSMA: we need to respond before next ITU-SG17's meeting, otherwise it will be too late as they impact on GSMA and 3GPP's work (modified AKA protocol and countries implementing it causing a possible market fragmentation).

**Decision:** The document was **replied to in S3-235006**.

**S3-235006 Reply to: LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond**

*Type: LS out For: approval  
 to ITU-T SG17  
 Source: Huawei*

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

**S3-234498 LS on work progress on X.1818 (ex. X.5Gsec-ctrl) “Security controls for operation and maintenance of IMT-2020/5G network systems”**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T*

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

**S3-234499 LSOut Reply to 3GPP Reply LS on Authenticated Vulnerability Testing**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ETSI ISG NFV*

**Decision:** The document was **replied to in S3-235008**.

**S3-235008 Reply to: LSOut Reply to 3GPP Reply LS on Authenticated Vulnerability Testing**

*Type: LS out For: approval  
 to ETSI ISG NFV  
 Source: Nokia*

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

**S3-234507 TCG progress - report from TCG rapporteur**

*Type: other For: Information  
 Source: InterDigital Communications*

**Abstract:**

This contribution provides a brief incremental summary of the progress in TCG Working Groups as of November 2023.

**Discussion:**

1. TCG – Highlights

Publication of new or revised deliverables (incremental changes from the status reported at SA3#112)

• TCG Storage Component Class Registry v1.0 – public review September 2023

• TCG Registry of Reserved TPM 2.0 Handles & Localities v1.2 – public review September 2023

• TCG Storage Opal Family Feature Set: Datastore Tables v1.01 – public review August 2023

• TCG DICE Concise Evidence Binding for SPDM v 1.0 – public review August 2023

• TCG DICE Attestation Architecture v1.1 – public review August 2023

• TCG PC Client Platform Firmware Profile v1.06 – public review July 2023

• TCG Mobile Reference Architecture v2.0 – publication approved by TC July 2023

• TCG CPU to TPM Bus Protection for Passive Attacks v1.0 – public review July 2023

• TCG Storage App Note: Encrypting Drives with Key Per I/O SSC – public review July 2023

2. Meetings

• TCG Members Meeting Hybrid F2F (Tokyo, Japan) – 27-29 February 2024

• TCG Members Meeting Hybrid F2F (TBD Location) – June 2024

• MP WG meets every Monday at 10-11 ET

• TMS WG meets every Monday and Friday at 12-13 ET

CyRes WG meets every Wednesday at 11-12:30 ET

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

**S3-234467 LS to 3GPP re Monitoring of Encrypted 5GS Signalling Traffic**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

**Decision:** The document was **replied to in S3-235009**.

**S3-234875 Reply LS on Monitoring of Encrypted 5GS Signalling Traffic**

*Type: LS out For: (not specified)  
 to GSMA 5GPKIWP, cc GSMA 5GMRR, GSMA NRG, GSMA DESS, 3GPP TSG SA WG2, 3GPP TSG SA WG5  
 Source: Ericsson*

**Discussion:**

Nokia: not an interoperability topic for 3GPP. It’s between the operator and hhoever is providing the product.

**Decision:** The document was **revised to S3-235009**.

**S3-235009 Reply LS on Monitoring of Encrypted 5GS Signalling Traffic**

*Type: LS out For: -  
 to GSMA 5GPKIWP, cc GSMA 5GMRR, GSMA NRG, GSMA DESS, 3GPP TSG SA WG2, 3GPP TSG SA WG5  
 Source: Ericsson*

(Replaces S3-234875)

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

**S3-234475 LS on QMC support in RRC\_IDLE and RRC\_INACTIVE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-234745*

**Decision:** The document was **replied to in S3-235102**.

**S3-234472 Reply LS on QMC support in RRC\_IDLE and RRC\_INACTIVE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2311409*

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

**S3-234852 LS reply for LS on QMC support in RRC\_IDLE and RRC\_INACTIVE**

*Type: LS out For: Approval  
 to RAN3, cc RAN2, SA2, SA5  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235102**.

**S3-235102 LS reply for LS on QMC support in RRC\_IDLE and RRC\_INACTIVE**

*Type: LS out For: Approval  
 to RAN3, cc RAN2, SA2, SA5  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234852)

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

**S3-234482 Reply LS on procedures for UE discovery for Ranging\_SL**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2311767*

**Decision:** The document was **replied to in S3-235075**.

**S3-234716 Draft Reply LS on procedures for UE discovery for Ranging\_SL**

*Type: LS out For: Approval  
 to CT1  
 Source: Qualcomm Incorporated*

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

**S3-234490 Reply LS on Security Context Transfer between MBSF and MBSTF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-231485*

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

**S3-234440 N32 Race conditions and recovery**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

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

**S3-234980 Reply LS on N32 Race conditions and recovery**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-234663*

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

**S3-234449 LS on procedures for UE discovery for Ranging\_SL**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-236527*

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

**S3-234450 LS on LPP message and supplementary service event report over a user plane connection between UE and LMF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-236562*

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

**S3-234451 LS on Trigger for secure user plane establishment via user plane**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-237891*

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

**S3-234452 LS on 5G ProSe UE-to-UE relay discovery with security aspects**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-237897*

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

**S3-234470 Reply LS to SA2 on Sidelink positioning procedure**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2309119*

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

**S3-234474 Reply LS on DTLS for SCTP next steps and request for input**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-234497*

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

**S3-234484 LS on the progress of 5WWC\_Ph2 normative work**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2311801*

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

**S3-234491 Reply to LS on 3GPP work on energy efficiency**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-235778*

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

**S3-234492 Reply LS on user consent of Non-public Network**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-236928*

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

**S3-234494 LS reply on Support of multiple UEs in Northbound APIs**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-233104*

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

**S3-234487 Reply LS on ProSe Secondary Authentication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2307743*

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

**S3-234976 LS to include Source and Destination Interface Type for Indirect DL Data Forwarding Tunnel related N4 requests**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: s3i230618*

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

**S3-234977 LS on NAS Cause Value - Unspecified**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: s3i230621*

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

**S3-234460 Reply LS on N32 Race conditions and recovery**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-234663*

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

**S3-234940 Discussion on UUAA Determination**

*Type: discussion For: Discussion  
 33.256 v..  
 Source: Lenovo*

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

**S3-234968 Prohibition of GEA1 and GEA2 due to security concerns**

*Type: CR For: Approval  
 43.020 v11.4.0 CR-0080 Cat: A (Rel-11)  
  
 Source: VODAFONE*

**Decision:** The document was **revised to S3-234974**.

**S3-234989 Elaborated LS reply to S3-234350 on Roaming Hub requirements as applicable to the Modified PRINS solution**

*Type: LS in For: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

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

**S3-234990 Elaborated LS reply to S3-234350 on IPX Service Hub requirements as applicable to the Modified PRINS solution**

*Type: LS in For: discussion  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

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

## 4 Work areas

### 4.1 Maintenance (Rel-15/16/17/18)

#### 4.1.1 Security Assurance

**S3-234407 To replace RRC connection reconfiguration by RRC reconfiguration**

*Type: CR For: Approval  
 33.511 v18.1.0 CR-0050 Cat: D (Rel-18)  
  
 Source: ISSDU*

**Decision:** The document was **revised to S3-234408**.

**S3-234408 To replace RRC connection reconfiguration by RRC reconfiguration**

*Type: CR For: Approval  
 33.511 v18.1.0 CR-0050 rev 1 Cat: D (Rel-18)  
  
 Source: ISSDU*

(Replaces S3-234407)

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

**S3-234409 To replace RRC connection reconfiguration by RRC reconfiguration**

*Type: CR For: Approval  
 33.501 v17.11.1 CR-1792 Cat: D (Rel-17)  
  
 Source: ISSDU*

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

**S3-234410 To replace RRC connection reconfiguration by RRC reconfiguration**

*Type: CR For: Approval  
 33.511 v16.10.0 CR-0051 Cat: D (Rel-16)  
  
 Source: ISSDU*

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

**S3-234411 Clarification on SCAS Modal Text**

*Type: CR For: Approval  
 33.117 v18.1.0 CR-0128 Cat: F (Rel-18)  
  
 Source: T-Mobile USA Inc., Deutsche Telekom, ZTE Corporation, BSI, Nokia, Ericson, Huawei, Telus, MITRE Corporation*

**Abstract:**

Ensure the TS follows the ETSI Modal verbs terminology as described in the ETSI drafting rules. Corrections on use are made throughout the TS.

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

**S3-234412 Clarification on SCAS Definitions and abbreviations**

*Type: CR For: Approval  
 33.117 v18.1.0 CR-0129 Cat: F (Rel-18)  
  
 Source: T-Mobile USA Inc.T-Mobile US, Deutsche Telekom, ZTE Corporation, BSI, Nokia, Ericson, Huawei, Telus, MITRE Corporation*

**Abstract:**

Update undefined terms, missing definitions, missing abbreviations and references.

**Decision:** The document was **revised to S3-235108**.

**S3-235108 Clarification on SCAS Definitions and abbreviations**

*Type: CR For: Approval  
 33.117 v18.1.0 CR-0129 rev 1 Cat: F (Rel-18)  
  
 Source: T-Mobile USA Inc.T-Mobile US, Deutsche Telekom, ZTE Corporation, BSI, Nokia, Ericson, Huawei, Telus, MITRE Corporation*

(Replaces S3-234412)

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

**S3-234413 To replace RRC connection reconfiguration by RRC reconfiguration**

*Type: CR For: Approval  
 33.511 v18.1.0 CR-0052 Cat: D (Rel-18)  
  
 Source: ISSDU*

**Decision:** The document was **revised to S3-234982**.

**S3-234982 To replace RRC connection reconfiguration by RRC reconfiguration**

*Type: CR For: Approval  
 33.511 v18.1.0 CR-0052 rev 1 Cat: A (Rel-18)  
  
 Source: ISSDU*

(Replaces S3-234413)

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

**S3-234414 To replace RRC connection reconfiguration by RRC reconfiguration**

*Type: CR For: Approval  
 33.511 v17.4.0 CR-0053 Cat: D (Rel-17)  
  
 Source: ISSDU*

**Decision:** The document was **revised to S3-234983**.

**S3-234983 To replace RRC connection reconfiguration by RRC reconfiguration**

*Type: CR For: Approval  
 33.511 v17.4.0 CR-0053 rev 1 Cat: A (Rel-17)  
  
 Source: ISSDU*

(Replaces S3-234414)

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

**S3-234415 To replace RRC connection reconfiguration by RRC reconfiguration**

*Type: CR For: Approval  
 33.511 v16.10.0 CR-0054 Cat: D (Rel-16)  
  
 Source: ISSDU*

**Decision:** The document was **revised to S3-234984**.

**S3-234984 To replace RRC connection reconfiguration by RRC reconfiguration**

*Type: CR For: Approval  
 33.511 v16.10.0 CR-0054 rev 1 Cat: F (Rel-16)  
  
 Source: ISSDU*

(Replaces S3-234415)

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

**S3-234423 Clarification of Test Cases in TS 33.117**

*Type: discussion For: Decision  
 33.117 v..  
 Source: Deutsche Telekom AG, T-Mobile US, Telecom Italia Mobile, Telus,China Mobile,Ericsson, Huawei, Nokia, ZTE, BSI (Germany), MITRE Corporation*

**Abstract:**

Some test case descriptions in TS 33.117 use imprecise wording, which leaves room for interpretations. This implies that security testers do not clearly know what to do. As ISO 17025 requires test labs to perform repeatable and reproduceable tests, it is

**Discussion:**

Ericsson clarified that this showed the changes in TS 33.117 that needed to be brought in future meetings.

GSMA asked to endorse this document and ask formally SA3 companies to resolve these issues by bringing CRs for the next meeting cycle if possible.

The Chair suggested to find volunteers to make that the job was done in time.

**Decision:** The document was **endorsed**.

**S3-234435 Basic Editorial Updates to TS 33.117**

*Type: CR For: Approval  
 33.117 v18.1.0 CR-0131 Cat: F (Rel-18)  
  
 Source: ZTE Corporation, Deutsche Telekom, T-Mobile USA, BSI, Huawei, Nokia, Ericsson, Telus, MITRE Corporation*

**Discussion:**

Ericsson: in the threat references it is not mentioned what threat we are talking about, we are just putting the whole document TR 33.926.The clause should be added as well. About the requirement reference, it should be added some reference instead of something like "industry best practice".

GSMA: accept these changes, but we need to be more precise or we will get issues with the labs.

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

**S3-234436 Inconsistent use of terms**

*Type: draftCR For: (not specified)  
 33.117 v18.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia commented that these changes came from the NESAS group.

MCC commented that this needed to be converted into a CR.

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

**S3-235049 Inconsistent use of terms**

*Type: CR For: -  
 33.117 v18.1.0 CR-0133 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Deutsche Telekom, T-mobile, ZTE, Ericsson, BSI, Huawei, TELUS, MITRE Corporation*

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

**S3-234438 Specification mismatch is leading to inconsistent certification result**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234439 Disclaimer for Indirect Communication**

*Type: CR For: (not specified)  
 33.117 v18.1.0 CR-0132 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235050**.

**S3-235050 Disclaimer for Indirect Communication**

*Type: CR For: -  
 33.117 v18.1.0 CR-0132 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234439)

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

**S3-234738 Clarification EMS interface**

*Type: CR For: Agreement  
 33.927 v18.0.1 CR-0001 Cat: F (Rel-18)  
  
 Source: China Mobile*

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

**S3-234739 Correction for VNF package and VNF image integrity of clause 4.2.3.3.5.2**

*Type: CR For: Agreement  
 33.527 v18.0.1 CR-0001 Cat: F (Rel-18)  
  
 Source: China Mobile*

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

**S3-234842 Correction of protocol in Expected format of evidence**

*Type: CR For: Approval  
 33.513 v18.0.0 CR-0014 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-234950**.

**S3-234844 Added missing Test Name and Expected format of evidence**

*Type: CR For: Approval  
 33.514 v18.1.0 CR-0010 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-234952**.

**S3-234845 Correction of IE and protocol**

*Type: CR For: (not specified)  
 33.515 v18.0.0 CR-0011 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-234951**.

**S3-234847 Added UDM threat reference for use of an invalid and uncompressed point in ECIES protection scheme for SUCI decryption**

*Type: CR For: Approval  
 33.926 v18.1.0 CR-0080 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-234953**.

**S3-234848 Added UDM SCAS test cases for checking an invalid and uncompressed point in ECIES protection scheme for SUCI decryption**

*Type: CR For: Approval  
 33.514 v18.1.0 CR-0011 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-234954**.

**S3-234929 Add UDM SCAS test case for checking the authentication verification of a synchronization failure message**

*Type: CR For: Approval  
 33.514 v18.1.0 CR-0012 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-234955**.

**S3-234930 Add UDM threat reference for missing verification of synchronization failure messages.**

*Type: CR For: Agreement  
 33.926 v18.1.0 CR-0081 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-234956**.

**S3-234950 Correction of protocol in Expected format of evidence**

*Type: CR For: Approval  
 33.513 v18.0.0 CR-0014 rev 1 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-234842)

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

**S3-234951 Correction of IE and protocol**

*Type: CR For: (not specified)  
 33.515 v18.0.0 CR-0011 rev 1 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-234845)

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

**S3-234952 Added missing Test Name and Expected format of evidence**

*Type: CR For: Approval  
 33.514 v18.1.0 CR-0010 rev 1 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-234844)

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

**S3-234953 Added UDM threat reference for use of an invalid and uncompressed point in ECIES protection scheme for SUCI decryption**

*Type: CR For: Approval  
 33.926 v18.1.0 CR-0080 rev 1 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-234847)

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

**S3-234954 Added UDM SCAS test cases for checking an invalid and uncompressed point in ECIES protection scheme for SUCI decryption**

*Type: CR For: Approval  
 33.514 v18.1.0 CR-0011 rev 1 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-234848)

**Decision:** The document was **revised to S3-235043**.

**S3-235043 Added UDM SCAS test cases for checking an invalid and uncompressed point in ECIES protection scheme for SUCI decryption**

*Type: CR For: Approval  
 33.514 v18.1.0 CR-0011 rev 2 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-234954)

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

**S3-234955 Add UDM SCAS test case for checking the authentication verification of a synchronization failure message**

*Type: CR For: Approval  
 33.514 v18.1.0 CR-0012 rev 1 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-234929)

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

**S3-234956 Add UDM threat reference for missing verification of synchronization failure messages.**

*Type: CR For: Approval  
 33.926 v18.1.0 CR-0081 rev 1 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-234930)

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

#### 4.1.2 Service Based Architecture

**S3-234718 Use "visited PLMN" in the roaming description**

*Type: CR For: Agreement  
 33.501 v16.16.0 CR-1840 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-234719 Use "visited PLMN" in the roaming description**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1841 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

mirror CR

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

**S3-234720 Validation of the parameters in the access token request in hierarchial NRF deployment**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1842 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234721 Validation of the parameters in the access token request in roaming scenarios**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1843 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234722 Validation of the parameters in the access token request in interconnect scenarios**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1844 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234723 Use "visited PLMN" in the roaming description**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1845 Cat: A (Rel-18)  
  
 Source: Ericsson*

**Abstract:**

mirror CR

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

**S3-234917 Correcting the UUID example in SBA certificates**

*Type: CR For: (not specified)  
 33.310 v16.14.0 CR-0178 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-234918 Non-critical X.509 subjectAltName and unique DN following RFC 5280**

*Type: CR For: (not specified)  
 33.310 v16.14.0 CR-0179 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-234919 Correcting the UUID example in SBA certificates**

*Type: CR For: (not specified)  
 33.310 v17.7.0 CR-0180 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-234921 Non-critical X.509 subjectAltName and unique DN following RFC 5280**

*Type: CR For: (not specified)  
 33.310 v17.7.0 CR-0181 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-234922 Correcting the UUID example in SBA certificates**

*Type: CR For: (not specified)  
 33.310 v18.1.0 CR-0182 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-234924 Non-critical X.509 subjectAltName and unique DN following RFC 5280**

*Type: CR For: (not specified)  
 33.310 v18.1.0 CR-0183 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-234928 Correcting the UUID example in SBA certificates**

*Type: CR For: (not specified)  
 33.310 v16.14.0 CR-0184 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-234931 Correcting the UUID example in SBA certificates**

*Type: CR For: (not specified)  
 33.310 v17.7.0 CR-0185 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-234935 Correcting the UUID example in SBA certificates**

*Type: CR For: (not specified)  
 33.310 v18.1.0 CR-0186 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-234943 Non-critical X.509 subjectAltName and unique DN following RFC 5280**

*Type: CR For: (not specified)  
 33.310 v17.7.0 CR-0188 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-234947 Non-critical X.509 subjectAltName and unique DN following RFC 5280**

*Type: CR For: (not specified)  
 33.310 v18.1.0 CR-0189 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

#### 4.1.3 Security Aspects of Proximity based services in 5GS ProSe

**S3-234511 Key identification for decryption of protected IEs for UE-to-Network Relay**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0127 Cat: C (Rel-18)  
  
 Source: Philips International B.V.*

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

**S3-234521 Retrieving keys for decryption of protected IEs in DCR for U2N relay**

*Type: CR For: Agreement  
 33.503 v17.5.0 CR-0125 Cat: F (Rel-17)  
  
 Source: Interdigital*

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

**S3-234522 Retrieving keys for decryption of protected IEs in DCR for U2N relay**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0126 Cat: F (Rel-18)  
  
 Source: Interdigital*

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

**S3-234728 Retrieving keys for decryption of protected IEs for U2N relay**

*Type: CR For: Agreement  
 33.503 v17.5.0 CR-0142 Cat: F (Rel-17)  
  
 Source: Ericsson, Huawei, HiSilicon*

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

**S3-234732 Retrieving keys for decryption of protected IEs for U2N relay**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0145 Cat: A (Rel-18)  
  
 Source: Ericsson, Huawei, HiSilicon*

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

**S3-234698 CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 17**

*Type: CR For: Approval  
 33.503 v17.5.0 CR-0133 Cat: F (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **revised to S3-235054**.

**S3-235054 CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 17**

*Type: CR For: Approval  
 33.503 v17.5.0 CR-0133 rev 1 Cat: F (Rel-17)  
  
 Source: CATT*

(Replaces S3-234698)

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

**S3-234699 CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 18 (mirror)**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0134 Cat: A (Rel-18)  
  
 Source: CATT*

**Decision:** The document was **revised to S3-235055**.

**S3-235055 CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 18 (mirror)**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0134 rev 1 Cat: A (Rel-18)  
  
 Source: CATT*

(Replaces S3-234699)

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

**S3-234509 Security of 5G ProSe PC5 Communication – clarification**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0124 Cat: F (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Ericsson, Qualcomm: the new sentence is not needed.

**Decision:** The document was **revised to S3-235066**.

**S3-235066 Security of 5G ProSe PC5 Communication – clarification**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0124 rev 1 Cat: F (Rel-18)  
  
 Source: Philips International B.V.*

(Replaces S3-234509)

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

**S3-234700 CR to TS33.503 Correction U2U Relay Communication**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0135 Cat: F (Rel-18)  
  
 Source: CATT*

**Decision:** The document was **revised to S3-235010**.

**S3-235010 CR to TS33.503 Correction U2U Relay Communication**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0135 rev 1 Cat: F (Rel-18)  
  
 Source: CATT*

(Replaces S3-234700)

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

**S3-234841 Incorrect clause reference**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0147 Cat: D (Rel-18)  
  
 Source: OPPO*

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

**S3-234897 Clarification on UE-to-UE Relay coverage status in the U2U discovery model B procedure**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0153 Cat: F (Rel-18)  
  
 Source: Beijing Xiaomi Mobile Software*

**Discussion:**

Qualcomm didn’t agree with the last sentence added.Ericsson agreed with this.

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

**S3-234641 Clairification and editorial changes to clause 6.6.3.3**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0129 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Interdigital: reference is wrong.

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

**S3-234731 Corrections**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0144 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234512 4.1.3 - Clause 6.1.3.3 - Clarification DDS**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0149 Cat: F (Rel-18)  
  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-235056**.

**S3-235056 4.1.3 - Clause 6.1.3.3 - Clarification DDS**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0149 rev 1 Cat: F (Rel-18)  
  
 Source: Philips International B.V.*

(Replaces S3-234512)

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

**S3-234727 CR to TS33.503 Clarification on the process of protecting U2U relay discovery message**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0141 Cat: F (Rel-18)  
  
 Source: CATT*

**Discussion:**

Qualcomm: not inline with what we have specified in SA2 and SA3.

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

**S3-234896 Clarification on protection on the direct discovery set in the U2U discovery**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0152 Cat: F (Rel-18)  
  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-234642 Clarification about key derivation in CP procedures and edtiorial changes R17**

*Type: CR For: Agreement  
 33.503 v17.5.0 CR-0130 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-234643 Clarification about key derivation in CP procedures and edtiorial changes R18**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0131 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234710 Rel17 ProSe: Updates on U2N relay security over control plane**

*Type: CR For: Agreement  
 33.503 v17.5.0 CR-0137 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

**S3-234839 Hop-by-hop security policy**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0146 Cat: F (Rel-18)  
  
 Source: OPPO*

**Discussion:**

It was clarified that this was for layer 3.

Qualcomm didn’t agree with adding this note.Ericsson felt also sceptic about this and didn’t agree.

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

**S3-234856 4.1.3 - Clause 6.1.3.3 - Clarification UE-to-UE Relay discovery key provisioning**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0150 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Huawei: this is not correct. Qualcomm didn’t support this either.

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

**S3-234942 Rel18 ProSe: Updates on U2N relay security over control plane**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0140 rev 1 Cat: A (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-234714)

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

**S3-234688 Update clause 6.1.1, 6.6.1, 6.6.3.3 and 6.6.4.1**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0132 Cat: F (Rel-18)  
  
 Source: OPPO, Xidian*

**Decision:** The document was **revised to S3-235011**.

**S3-234711 Rel18 ProSe – Adding security for U2U Relay communication with integrated discovery**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0138 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

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

**S3-235011 Update clause 6.1.1, 6.6.1, 6.6.3.3 and 6.6.4.1**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0132 rev 1 Cat: F (Rel-18)  
  
 Source: OPPO, Xidian*

(Replaces S3-234688)

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

**S3-234843 UE-to-UE Relay Communication with integrated discovery**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0143 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-234730)

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

**S3-234895 Add the general clause for UE-to-UE Relay Communication**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0151 Cat: F (Rel-18)  
  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-234923 Update discovery key response of U2N discovery security procdure**

*Type: CR For: Agreement  
 33.503 v17.5.0 CR-0109 rev 2 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-234855)

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

**S3-235012 Update discovery key response of U2N discovery security procdure**

*Type: CR For: Agreement  
 33.503 v17.5.0 CR-0109 rev 3 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

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

**S3-234709 Rel17 ProSe - Updates on U2N relay discovery key request procedure**

*Type: CR For: Agreement  
 33.503 v17.5.0 CR-0136 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

**S3-234941 Rel18 ProSe - Updates on U2N relay discovery key request procedure**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0139 rev 1 Cat: A (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-234713)

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

**S3-235013 Update discovery key response of U2N discovery security procdure**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0139 rev 2 Cat: A (Rel-18)  
  
 Source: Nokia,Qualcomm Incorporated*

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

**S3-234898 Clarification on the discovery security parameters in the U2N discovery**

*Type: CR For: Agreement  
 33.503 v17.5.0 CR-0154 Cat: F (Rel-17)  
  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-234899 Clarification on the discovery security parameters in the U2N discovery (mirror)**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0155 Cat: A (Rel-18)  
  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-234510 UTC-based Counter Reconciliation**

*Type: CR For: Approval  
 33.503 v18.0.0 CR-0148 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Qualcomm: this is not a security requirement, and it's new.Philips replied that this was not new.

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

**S3-234713 Rel18 ProSe - Updates on U2N relay discovery key request procedure**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0139 Cat: A (Rel-18)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-234941**.

**S3-234714 Rel18 ProSe: Updates on U2N relay security over control plane**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0140 Cat: A (Rel-18)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-234942**.

**S3-234730 UE-to-UE Relay Communication with integrated discovery**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0143 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-234843**.

**S3-234855 Update discovery key response of U2N discovery security procdure**

*Type: CR For: Agreement  
 33.503 v17.5.0 CR-0109 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-233614)

**Decision:** The document was **revised to S3-234923**.

**S3-235076 Ls on uniqueness of Prose U2NRSC**

*Type: LS out For: Approval  
 to SA2  
 Source: Nokia*

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

#### 4.1.4 Mission Critical

**S3-234501 [33.180] Clarification on SIP core access authentication**

*Type: CR For: Agreement  
 33.180 v17.9.0 CR-0209 rev 1 Cat: F (Rel-18)  
  
 Source: UK Home Office*

(Replaces S3-233591)

**Abstract:**

This CR makes references to MCX core architecture document 3GPP TS 23.280. It also proposes that other SIP Core access authentication security mechanisms may be considered for Control Room MC UEs attached to the network over non-3GPP access routes.

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

**S3-234775 [Draft] LS on authentication and authorization aspects in usage of MC Gateway UE**

*Type: LS out For: Approval  
 to SA6, CT1  
 Source: Ericsson*

**Discussion:**

Nokia didn’t support this LS.

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

#### 4.1.5 Authentication and key management for applications based on 3GPP credential in 5G

**S3-234523 Correction in UDM and GPSI related requirements**

*Type: CR For: Agreement  
 33.535 v17.9.0 CR-0180 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235014**.

**S3-235014 Correction in UDM and GPSI related requirements**

*Type: CR For: Agreement  
 33.535 v17.9.0 CR-0180 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234523)

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

**S3-234524 Correction in UDM and GPSI related requirements**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0181 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235015**.

**S3-235015 Correction in UDM and GPSI related requirements**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0181 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234524)

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

**S3-234525 A-KID privacy related requirments**

*Type: CR For: Agreement  
 33.535 v17.9.0 CR-0182 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234526 A-KID privacy related requirments**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0183 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234527 Editorial alignment**

*Type: CR For: Agreement  
 33.535 v17.9.0 CR-0184 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235016**.

**S3-235016 Existing AKMA procedure alignment**

*Type: CR For: Agreement  
 33.535 v17.9.0 CR-0184 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234527)

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

**S3-234528 Editorial alignment**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0185 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235017**.

**S3-235017 Existing AKMA procedure alignment**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0185 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234528)

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

**S3-234529 Discussion paper on AKMA service restriction in VPLMN**

*Type: discussion For: Discussion  
 33.535 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234530 AKMA service restriction in VPLMN**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0186 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: not a security solution solved by SA3. Ericsson share the same view.

Nokia: AKMA is defined by SA3, nobody else will clarify this.

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

**S3-234532 AKMA Service disable or withdrawn**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0187 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, ZTE, ChinaMobile*

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

**S3-234939 Non-critical X.509 subjectAltName and unique DN following RFC 5280**

*Type: CR For: (not specified)  
 33.310 v16.14.0 CR-0187 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

#### 4.1.6 Enhancements to User Plane Integrity Protection Support in 5GS

#### 4.1.7 Security Aspects of Enhancements for 5G Multicast-Broadcast Services

**S3-234637 Clarification about the NOTE in MOCN**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1824 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234838 5MBS Annex W.4.2**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1882 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Correction to Annex W.4.2

**Decision:** The document was **revised to S3-235106**.

**S3-235106 5MBS Annex W.4.2**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1882 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-234838)

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

**S3-234850 5MBS Annex W.4.2**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1883 Cat: A (Rel-18)  
  
 Source: Ericsson*

**Abstract:**

Correction to Annex W.4.2 (Rel-18 mirror)

**Decision:** The document was **revised to S3-235107**.

**S3-235107 5MBS Annex W.4.2**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1883 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-234850)

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

#### 4.1.8 Security for enhanced support of Industrial IoT

#### 4.1.9 Security Aspects of eNPN

**S3-234571 NSWO support in SNPN using CH with AAA server**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1697 rev 2 Cat: B (Rel-18)  
  
 Source: CableLabs, Charter Communications*

(Replaces S3-234290)

**Decision:** The document was **revised to S3-235077**.

**S3-235077 NSWO support in SNPN using CH with AAA server**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1697 rev 3 Cat: F (Rel-18)  
  
 Source: CableLabs, Charter Communications*

(Replaces S3-234571)

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

**S3-234572 Reply LS on NSWO support in SNPN using CH AAA server**

*Type: LS out For: Approval  
 to SA2, cc CT1, CT4  
 Source: CableLabs*

**Decision:** The document was **revised to S3-235109**.

**S3-235109 Reply LS on NSWO support in SNPN using CH AAA server**

*Type: LS out For: Approval  
 to SA2, cc CT1, CT4  
 Source: CableLabs*

(Replaces S3-234572)

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

**S3-234653 Delete Editor's Note in trusted non-3GPP access**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1828 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234756 Resolving EN about AN parameters**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1851 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234857 Resolution of EN concerning the content of AN-parameters.**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1884 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

CableLabs: last change is not needed. Refer to IETF.

Nokia: we discussed it before; we don’t agree with the threat here.Some proprietary solution can take care of this. We don’t see a need for this.

Qualcomm: not convinced that there is a massive threat here.I need to see more details on how the network checks all these identities coming.

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

**S3-235083 Resolution of EN concerning the content of AN-parameters.**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1884 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234626 Discussion on security issue for NSWO**

*Type: discussion For: Endorsement  
 Source: Huawei, HiSilicon*

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

**S3-234627 Security for NSWO support in SNPN**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1823 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234757 Correction of CR implementation**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1852 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-235018**.

**S3-235018 Correction of CR implementation**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1852 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson,Nokia*

(Replaces S3-234757)

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

**S3-234859 Reintroduction of agreed changes not merged to TS 33.501 v 18.3.0**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1886 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234758 Editorial correction of CR implementation**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1853 Cat: F (Rel-18)  
  
 Source: Ericsson,Nokia*

**Discussion:**

Adding Nokia as co-source since the CR in 858 is a duplication.

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

**S3-234858 Editorial correction of incorrectly formatted text.**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1885 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Same change as previous document.

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

#### 4.1.10 Security Aspects of Enhancement of Support for Edge Computing in 5GC

**S3-234562 Adding conclusions for KI#2.6**

*Type: draftCR For: (not specified)  
 33.739 v18.0.0  
 Source: InterDigital, Inc.*

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

**S3-234761 CR of fixing references**

*Type: CR For: Approval  
 33.739 v18.0.0 CR-0001 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-235019**.

**S3-235019 CR of fixing references**

*Type: CR For: Approval  
 33.739 v18.0.0 CR-0001 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-234761)

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

**S3-234762 CR of terms, abbreviations and symbols**

*Type: CR For: Approval  
 33.739 v18.0.0 CR-0002 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234779 Security of EAS discovery**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1862 Cat: B (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

Nokia: postpone this. We need time to study this more in SA2.

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

**S3-235061 Security of EAS discovery**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1862 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234781 33.501 Rel-17 Correction: Reverting Annex P back to informative**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1863 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

Nokia didn’t agree with making this Annex normative again.There are other references to Annex P that may imply that this cannot be normative.There was other CR touching the same annex, so the decision was postponed until that CR was opened.

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

**S3-235062 33.501 Rel-17 Correction: Reverting Annex P back to informative**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1863 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-234782 33.501 Rel-18 Correction: Reverting Annex P back to informative**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1864 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-235063 33.501 Rel-18 Correction: Reverting Annex P back to informative**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1864 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-234788 Correction on the GPSI verification**

*Type: CR For: Agreement  
 33.558 v18.0.1 CR-0016 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

Nokia disagreed with the note.

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

**S3-234789 Clarification on EDGE-10 interface to cover the ECS-ER security**

*Type: CR For: Agreement  
 33.558 v18.0.1 CR-0017 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-235023**.

**S3-235023 Clarification on EDGE-10 interface to cover the ECS-ER security**

*Type: CR For: Agreement  
 33.558 v18.0.1 CR-0017 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-234789)

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

#### 4.1.11 Security aspects of Uncrewed Aerial Systems

**S3-234611 Align UUAA with TS23.256 due to removal of uavAuthenticated IE**

*Type: CR For: Agreement  
 33.256 v17.4.0 CR-0029 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Qualcomm: this is aligned with the LS answer from SA2.They don’t support this in step 6 anymore.

Lenovo disagreed with Qualcomm.

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

**S3-235024 Align UUAA with TS23.256 due to removal of uavAuthenticated IE**

*Type: CR For: Agreement  
 33.256 v17.4.0 CR-0029 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-234612 Align UUAA with TS23.256 due to removal of uavAuthenticated IE**

*Type: CR For: Agreement  
 33.256 v18.0.0 CR-0030 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-235025 Align UUAA with TS23.256 due to removal of uavAuthenticated IE**

*Type: CR For: Agreement  
 33.256 v18.0.0 CR-0030 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234746 Removal of the indicator of UUAA-MM result from AMF**

*Type: CR For: Approval  
 33.256 v17.4.0 CR-0036 Cat: F (Rel-17)  
  
 Source: CMCC*

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

**S3-234747 Removal of the indicator of UUAA-MM result from AMF**

*Type: CR For: Approval  
 33.256 v18.0.0 CR-0037 Cat: A (Rel-18)  
  
 Source: CMCC*

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

**S3-234944 Updates to Clause 5.2.1.1**

*Type: CR For: Approval  
 33.256 v18.0.0 CR-0040 Cat: F (Rel-18)  
  
 Source: Lenovo*

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

**S3-234629 Clarification related to reliable location**

*Type: CR For: Agreement  
 33.256 v17.4.0 CR-0031 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-234630 Clarification related to reliable location**

*Type: CR For: Agreement  
 33.256 v18.0.0 CR-0032 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234776 R17-Clarification on reliable location information**

*Type: CR For: Agreement  
 33.256 v17.4.0 CR-0038 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-234777 Rel18-Clarification on reliable location information**

*Type: CR For: Agreement  
 33.256 v18.0.0 CR-0039 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-234644 Editorial changes and clarification about identity mapping R17**

*Type: CR For: Agreement  
 33.256 v17.4.0 CR-0033 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-234645 Editorial changes and clarification about identity mapping R17**

*Type: CR For: Agreement  
 33.256 v18.0.0 CR-0034 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234606 Direct C2 security for unicast**

*Type: CR For: Agreement  
 33.256 v18.0.0 CR-0028 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Qualcomm didn’t agree with this CR.

Interdigital supported this CR.

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

**S3-234949 Clarify the use of UUAA-MM for pairing authorisation**

*Type: CR For: Agreement  
 33.256 v18.0.0 CR-0035 rev 1 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-234707)

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

**S3-234707 Clarify the use of UUAA-MM for pairing authorisation**

*Type: CR For: Agreement  
 33.256 v18.0.0 CR-0035 Cat: A (Rel-18)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-234949**.

#### 4.1.12 Security Aspects of Ranging Based Services and Sidelink Positioning

**S3-234584 Update the abbreviations in 33.533**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0004 Cat: F (Rel-18)  
  
 Source: ZTE*

**Decision:** The document was **revised to S3-235026**.

**S3-235026 Update the abbreviations in 33.533**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0004 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE*

(Replaces S3-234584)

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

**S3-234880 Update to the Reference Points in Clause 4.2.2**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0017 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234881 Update to Common Security in Clause 5**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0018 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234580 Allocate FC Value for 33.533**

*Type: CR For: Agreement  
 33.220 v18.1.0 CR-0224 Cat: F (Rel-18)  
  
 Source: ZTE*

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

**S3-234581 Update the FC Value in 33.533**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0001 Cat: F (Rel-18)  
  
 Source: ZTE*

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

**S3-234715 Rel18 SL positioning - Updates on UE discovery procedure**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0008 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

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

**S3-234807 Update clause 6.2.3 in TS 33.533**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0012 Cat: F (Rel-18)  
  
 Source: OPPO*

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

**S3-234882 Add differences between Ranging discovery and ProSe discovery**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0019 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Decision:** The document was **revised to S3-235027**.

**S3-235027 Add differences between Ranging discovery and ProSe discovery**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0019 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi*

(Replaces S3-234882)

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

**S3-234884 Update to failure handling for authorization of UE role included in DCR**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0020 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234901 Clarification on the Ranging/SL Positioning service exposure**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0031 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234885 Update to AF authorization procedure for Ranging/SL positioning service exposure**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0021 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Decision:** The document was **revised to S3-235028**.

**S3-235028 Update to AF authorization procedure for Ranging/SL positioning service exposure**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0021 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi*

(Replaces S3-234885)

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

**S3-234631 Clarification on the authorization procedure of AF or 5GC NF**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0005 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234633 Location\_PrivacyCheck service from GMLC for UEs belonging to different PLMNs**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0007 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234900 Clarification on the authorization for UEs belonging to different PLMNs**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0030 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234632 Location\_PrivacyCheck service from AMF**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0006 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234886 Add privacy handing for Ranging/SL positioning service exposure through 5GC CP**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0022 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Decision:** The document was **revised to S3-235029**.

**S3-235029 Add privacy handing for Ranging/SL positioning service exposure through 5GC CP**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0022 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi*

(Replaces S3-234886)

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

**S3-234888 Update to authorization for Ranging/SL positioning service exposure through PC5**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0024 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234733 UE Privacy handling for service exposure through PC5**

*Type: discussion For: Endorsement  
 33.533 v..  
 Source: Ericsson*

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

**S3-234734 UE Privacy handling for service exposure through PC5**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0010 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234887 Add privacy handing for Ranging/SL positioning service exposure through PC5**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0023 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-235030 Add privacy handing for Ranging/SL positioning service exposure through PC5**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0023 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234516 Clarification to 6.3.7 on discovery**

*Type: CR For: Approval  
 33.533 v18.0.0 CR-0016 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Qualcomm and Ericsson didn’t understand the proposal.Check during the discovery, then after the discovery it is not necessary anymore.

Huawei: we think it is not necessary, but we are open to discussion.

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

**S3-234893 Update to the procedure of UE privacy verification for UE-only operation**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0029 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234514 Additions to enable secure network based SL positioning for UE without NAS connection**

*Type: CR For: Approval  
 33.533 v18.0.0 CR-0014 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Qualcomm: this is a new procedure, Rel-18 s frozen.

Philips: we are answering to an SA2's concern.

Huawei: we need more time to discuss this.

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

**S3-234811 4.1.12 - Discussion on privacy of sharing location of Located UEs**

*Type: discussion For: Discussion  
 33.533 v..  
 Source: Philips International B.V.*

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

**S3-234515 Addition of Ranging/SL Positioning privacy profile**

*Type: CR For: Approval  
 33.533 v18.0.0 CR-0015 Cat: B (Rel-18)  
  
 Source: Philips International B.V.*

**Discussion:**

Ericsson had several issues with this contribution and proposed sending an LS to SA2 for furtherclarifications.

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

**S3-234582 Remove the Note in clause 6.3.5**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0002 Cat: F (Rel-18)  
  
 Source: ZTE*

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

**S3-234735 UE Privacy handling for Ranging/SL positioning**

*Type: discussion For: Endorsement  
 33.533 v..  
 Source: Ericsson*

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

**S3-234736 UE Privacy profile for Ranging SL positioning**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0011 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234902 Clarification on the UE Ranging/SL Positioning privacy profile**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0032 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234889 Update to the title for unicast direct communication with long-term credential**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0025 Cat: D (Rel-18)  
  
 Source: Xiaomi*

**Decision:** The document was **revised to S3-235031**.

**S3-235031 Update to the title for unicast direct communication with long-term credential**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0025 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi*

(Replaces S3-234889)

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

**S3-234717 Rel18 SL positioning - Updates on unicast direct communication security**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0009 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

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

**S3-234890 Resolve the Editor's Note on SL Positioning service identifier**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0026 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Discussion:**

Same content as 717.

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

**S3-234891 Update to unicast communication for SL positioning service provided by network**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0027 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Discussion:**

Ericsson didn’t support this.

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

**S3-234892 Unicast communication security supported by V2X UEs for SL positioning service provided by network**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0028 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Discussion:**

Qualcomm and Ericsson didn’t support this.

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

**S3-234513 4.1.12 - Clause 6.4.4 - clarification**

*Type: CR For: Approval  
 33.533 v18.0.0 CR-0013 Cat: F (Rel-18)  
  
 Source: Philips International B.V.*

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

**S3-234583 Resolve the issue when SLPTK ID is about to wrap around**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0003 Cat: F (Rel-18)  
  
 Source: ZTE*

**Decision:** The document was **revised to S3-235079**.

**S3-235079 Resolve the issue when SLPTK ID is about to wrap around**

*Type: CR For: Agreement  
 33.533 v18.0.0 CR-0003 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE*

(Replaces S3-234583)

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

#### 4.1.13 Security Aspects of eNA

**S3-234752 EN resolving in TS33.501 X.2(R17)**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1847 Cat: F (Rel-17)  
  
 Source: China Mobile*

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

**S3-234753 EN resolving in TS33.501 X.2(R18)**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1848 Cat: A (Rel-18)  
  
 Source: China Mobile*

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

**S3-234560 Conveying the CCA of the source NF service consumer**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1807 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

**Decision:** The document was **revised to S3-235034**.

**S3-235034 Conveying the CCA of the source NF service consumer**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1807 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-234560)

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

**S3-234553 Conveying the CCA of the source NF service consumer**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1804 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

**Decision:** The document was **revised to S3-235035**.

**S3-235035 Conveying the CCA of the source NF service consumer**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1804 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-234553)

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

**S3-234554 Adding service area for authorization in FL**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1805 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234665 Updates to Federated Learning**

*Type: draftCR For: (not specified)  
 33.501 v18.3.0  
 Source: Intel*

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

**S3-234686 Update Service Area in FL Authorization**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1835 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234687 Discussion paper on Service Area in FL**

*Type: discussion For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-234555 Removing EN in X.10 clause of TS 33.501 related to allowed NF consumers list**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1806 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235036**.

**S3-235036 Removing EN in X.10 clause of TS 33.501 related to allowed NF consumers list**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1806 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234555)

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

**S3-234816 Resolution of one Editor's Note (Transaction ID) for Security for AI/ML model storage and sharing**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1869 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234814 Resolution of one EN (storage request update) in Security for AI/ML model storage and sharing**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1867 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234754 Vendor ID EN resolving in TS33.501 X.10\_Rel 17**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1849 Cat: F (Rel-17)  
  
 Source: China mobile*

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

**S3-234755 Vendor ID EN resolving in TS33.501 X.10\_Rel 18**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1850 Cat: F (Rel-18)  
  
 Source: China mobile*

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

**S3-234960 Resolution of one Editor's Note (Interoperability ID) for Security for AI/ML model storage and sharing**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1898 Cat: F (Rel-18)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell,China Mobile*

**Discussion:**

China Mobile added as co-signer as 755 is identical.

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

**S3-234815 Update flow of Nnwdaf\_MLModelProvision**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1868 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-235037**.

**S3-235037 Update flow of Nnwdaf\_MLModelProvision**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1868 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-234815)

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

**S3-234817 Correction on allowed NFc list for model storage and sharing in indirect communication scenarios**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1870 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

Nokia couldn’t agree with this.Huawei couldn’t agree either with the statement on the SCP.

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

**S3-234818 Clarify ADRF usage to be optional**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1871 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234819 Authorization of Model Sharing with MTLF**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1872 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

Nokia: this came up in SA2 quite late. We still believe that this needs to be properly studied. There is a security issue but we need more time.

Huawei supported this with modifications in the note.

It was commented that this was not a correction. Given that it would bring a new security solution MCC advised to bring this to Rel-19.

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

**S3-234820 LS on Model Sharing With MTLF**

*Type: LS out For: Approval  
 to SA2  
 Source: Ericsson*

**Decision:** The document was **revised to S3-235110**.

**S3-235110 LS on Model Sharing With MTLF**

*Type: LS out For: Approval  
 to SA2  
 Source: Ericsson*

(Replaces S3-234820)

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

**S3-234684 Discussion paper on the DataSetTag**

*Type: discussion For: Endorsement  
 Source: Huawei, HiSilicon*

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

**S3-234685 Procedure for secured and authorized AIML model data sharing**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1834 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Nokia: threats are not evident here.

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

**S3-234664 Updates to ML Model Storage and Sharing**

*Type: draftCR For: (not specified)  
 33.501 v18.3.0  
 Source: Intel Corporation (UK) Ltd*

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

**S3-234625 Correction on protection of data and analytics exchange in roaming case**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1822 Cat: D (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234638 withdrawn**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1825 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

#### 4.1.14 Modified PRINS for roaming service providers in 5G

**S3-234615 Defining Roaming Hub**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1821 Cat: F (Rel-18)  
  
 Source: NTT DOCOMO, Vodafone*

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

**S3-235070 Defining Roaming Hub**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1821 rev 1 Cat: F (Rel-18)  
  
 Source: NTT DOCOMO, Vodafone*

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

**S3-234764 Editorial modifications on PRINS**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1855 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234973 Updating intermediary originated error message procedure**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1820 rev 1 Cat: F (Rel-18)  
  
 Source: NTT DOCOMO, Vodafone*

(Replaces S3-234614)

**Abstract:**

revision adding Vodafone as co-signing company

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

**S3-234694 Resolving Editor's Note on N32 and/or SBA layers for Modified PRINS**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1836 Cat: F (Rel-18)  
  
 Source: Vodafone, Verizon, T-Mobile USA, NTT DOCOMO, Telefonica*

**Decision:** The document was **revised to S3-235069**.

**S3-235069 Restructuring and addressing editor's Note on N32 and/or SBA layers for Modified PRINS**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1836 rev 1 Cat: F (Rel-18)  
  
 Source: Vodafone, Verizon, T-Mobile USA, NTT DOCOMO, BSI (DE), Nokia, Nokia Shanghai Bell, Comcast, Deutsche Telekom*

(Replaces S3-234694)

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

**S3-234863 SEPP requirement for error handling from Roaming Intermediaries**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1887 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234767 Editorial modifications on PRINS**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1857 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234768 Addressing ENs on reformattedData and N32-f context**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1858 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234769 Addressing EN on error message layers**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1859 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234833 Updating security procedure to enable Roaming Hubs**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1881 Cat: B (Rel-18)  
  
 Source: Samsung*

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

**S3-234770 Deleting Note 3 in clause 5.9.3.2**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1860 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234826 Correction of N32-f terminology**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1877 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234864 N32f and N32c correlation issue**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1888 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234865 Security profiles for PRINS**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1889 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234556 Discussion paper on data control by roaming hubs with modified PRINS**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234557 LS on data control by Roaming Hubs with PRINS**

*Type: LS out For: Approval  
 to SA2, cc SA5, CT4  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia highlighted that GSMA has been asking for several times already. There was a lack of response to GSMA and SA2 on the need for roaming hub to control the PDU session. Telecom Italia supported Nokia and stated that SA3 needed to draft something to SA2 to let them aware of the problem.

Verizon: this has architecture impact and it’s out of scope of SA3.

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

**S3-234614 Updating intermediary originated error message procedure**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1820 Cat: F (Rel-18)  
  
 Source: NTT DOCOMO*

**Decision:** The document was **revised to S3-234973**.

#### 4.1.15 All other maintenance topics (not listed above)

**S3-234868 Detailed functional security model description for support of RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0050 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235104**.

**S3-235104 Detailed functional security model description for support of RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0050 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234868)

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

**S3-234907 Clarification for CAPIF-8**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0051 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Decision:** The document was **revised to S3-235111**.

**S3-235111 Clarification for CAPIF-8**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0051 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi,Nokia, Nokia Shanghai Bell*

(Replaces S3-234907)

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

**S3-234961 Resolving stage 2 editor's notes**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0056 rev 1 Cat: F (Rel-18)  
  
 Source: NTT DOCOMO*

(Replaces S3-234945)

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

**S3-234616 Revocation procedures invoked by API invoker**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0037 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234617 Revocation procedure invoked by resource owner client**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0038 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234910 Update for authorization revocation procedure for RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0054 Cat: F (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234832 Revocation procedure for RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0049 Cat: B (Rel-18)  
  
 Source: Samsung*

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

**S3-234911 Resolve EN related to API invoker ID and GPSI**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0055 Cat: C (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234786 Clarification on resource owner ID**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0046 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-235059**.

**S3-235059 Clarification on resource owner ID**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0046 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-234786)

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

**S3-234618 Correction on authentication and authorization for RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0039 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-235113**.

**S3-235113 Correction on authentication and authorization for RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0039 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon,Nokia, Nokia Shanghai Bell*

(Replaces S3-234618)

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

**S3-234619 Security negotiation for RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0040 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234620 Access token profile for RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0041 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-235115**.

**S3-235115 Access token profile for RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0041 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon,Nokia, Nokia Shanghai Bell*

(Replaces S3-234620)

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

**S3-234621 Obtaining Tokens Procedure for RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0042 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234622 Refreshing Token for RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0043 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234784 Identification of RNAA token**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0044 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-235064 Identification of RNAA token**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0044 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234908 Resolve EN related to authorization flow**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0052 Cat: F (Rel-18)  
  
 Source: Xiaomi*

**Decision:** The document was **revised to S3-235114**.

**S3-235114 Resolve EN related to authorization flow**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0052 rev 1 Cat: F (Rel-18)  
  
 Source: Xiaomi,Nokia, Nokia Shanghai Bell*

(Replaces S3-234908)

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

**S3-234790 Optimization in the authorization code flow usage**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0048 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234785 Optimizations for accessing own resources**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0045 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-235065 Optimizations for accessing own resources**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0045 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234909 Streamline the Editor's Notes for RNAA**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0053 Cat: D (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234787 Clarification on the scope of the Rel-18 RNAA specification**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0047 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-235060 Clarification on the scope of the Rel-18 RNAA specification**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0047 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234550 Updates to the SBA certificate profile**

*Type: CR For: Agreement  
 33.310 v18.1.0 CR-0169 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: this is related to a draft, not a finished RFC.We can wait until it is finished, no rush.

Nokia: it is in a mature status, only editorial changes expected.

Nokia commented that they had received comments to improve this and that they would bring it back next meeting.

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

**S3-234639 Update to Set up of initial trust**

*Type: CR For: Agreement  
 33.310 v18.1.0 CR-0171 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234640 Update to Validation of usage of X.509 certificate**

*Type: CR For: Agreement  
 33.310 v18.1.0 CR-0172 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234652 CR to update certificate lifecycle management**

*Type: CR For: Agreement  
 33.310 v18.1.0 CR-0173 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Nokia: this may be seen as mandatory to implement if it’s a normative clause.

Huawei: everything in this clause is a guideline for implementation.

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

**S3-234589 A-KID update after UPU**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0188 Cat: F (Rel-18)  
  
 Source: ZTE*

**Discussion:**

Ericsson didn’t agree with this CR.

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

**S3-234590 Adding SUPI/GPSI as an option in KAF request message**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0189 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-234591 Editorial corrections to TS 33.535 in R17**

*Type: CR For: Agreement  
 33.535 v17.9.0 CR-0190 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-235080**.

**S3-235080 Editorial corrections to TS 33.535 in R17**

*Type: CR For: Agreement  
 33.535 v17.9.0 CR-0190 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces S3-234591)

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

**S3-234592 Editorial corrections to TS 33.535 in R18**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0191 Cat: A (Rel-18)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-235081**.

**S3-235081 Editorial corrections to TS 33.535 in R18**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0191 rev 1 Cat: A (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S3-234592)

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

**S3-234593 Update AKMA key lifetimes**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0192 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-234594 Update AKMA related UDM services**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0193 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-234595 Adding indication to inform UE of A-KID refresh**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0194 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-234912 Routing indicator update issue in the A-KID construction procedure Release 17**

*Type: CR For: Agreement  
 33.535 v17.9.0 CR-0196 Cat: F (Rel-17)  
  
 Source: Xiaomi*

**Discussion:**

Huawei didn’t agree with this contribution.

Qualcomm: this clarification is necessary.

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

**S3-234913 Routing indicator update issue in the A-KID construction procedure Release 18 (mirror)**

*Type: CR For: Agreement  
 33.535 v18.1.0 CR-0197 Cat: A (Rel-18)  
  
 Source: Xiaomi*

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

**S3-234599 Dummy WID for R18 eNS**

*Type: WID new For: Agreement  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, Xiaomi, ZTE*

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

**S3-234605 NSSAA procedure update for multiple registration**

*Type: CR For: Agreement  
 33.501 v17.11.0 CR-1817 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Huawei commented that the current specification was broken and requested the operators to check it out.

Ericsson commented that this was the 4th time that they saw this contribution and that they still didn’t agree.

The Chair commented that a Working Agreement could be necessary to put an end to it.

Ericsson commented that not pursuing this would be a solution and that the working agreement could be avoided.

Ericsson added this was a new feature and not a correction.

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

**S3-234600 Home control for Network Slice Admission Control procedures**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1816 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, Xiaomi, ZTE*

**Discussion:**

The Chair commented that there was no exception for Rel-18 topics. Huawei wanted to include this content and recurring to a technical vote if necessary,

It was commented that stage 2 for Rel-18 was frozen already, so little chance to have this approved in Plenary. This was taken offline.

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

**S3-234596 Reuse error code during home network triggered primary authentication procedure**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1813 Cat: F (Rel-18)  
  
 Source: ZTE*

**Discussion:**

Huawei: we don’t need to refer to CT4. This is not purely aligned with them either.Nokia supported this.

Nokia and Huawei agreed on the second change.

Ericsson: the second change may not be correctly placed.

**Decision:** The document was **revised to S3-235038**.

**S3-235038 Reuse error code during home network triggered primary authentication procedure**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1813 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE*

(Replaces S3-234596)

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

**S3-234597 Clarify AMF responses in HONTRA procedure.**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1814 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-235039 Clarify AMF responses in HONTRA procedure.**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1814 rev 1 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-234598 HONTRA procedure corrections**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1815 Cat: F (Rel-18)  
  
 Source: ZTE Corporation*

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

**S3-234655 clarification for HONTRA procedure**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1830 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-235040**.

**S3-235040 clarification for HONTRA procedure**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1830 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-234655)

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

**S3-234680 Clarification on signalling overload in Home Network Triggered Authentication**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1833 Cat: F (Rel-18)  
  
 Source: LG Electronics*

**Discussion:**

Nokia: not convinced with the text.

Ericsson: not needed.

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

**S3-234794 Implementation corrections**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1865 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234795 Clarifications of the AMF and UDM behaviour**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1866 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234534 Callback URI clarification and API correction**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1793 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: not necessary.

Huawei: it needs rewording.

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

**S3-235041 Callback URI clarification and API correction**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1793 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234704 Establishing IPsec SAs for IAB inter-CU topology adaptation and backhaul RLF recovery procedure**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1839 Cat: A (Rel-18)  
  
 Source: Qualcomm Incorporated*

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

**S3-234772 Guidance on mitigating privacy risk of variable length NAI based SUPIs**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1861 Cat: F (Rel-18)  
  
 Source: Ericsson, Qualcomm Incorporated*

**Discussion:**

MCC comment: dangerous to mention a study when introducing a CR, even if the change is not normative.

The NOTE should not have a recommendation, so better to have NOTE 0 as plain text instead.

**Decision:** The document was **revised to S3-235058**.

**S3-235058 Guidance on mitigating privacy risk of variable length NAI based SUPIs**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1861 rev 1 Cat: F (Rel-18)  
  
 Source: Ericsson, Qualcomm Incorporated*

(Replaces S3-234772)

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

**S3-234828 [IAB][Rel-17] IAB inter-CU topology adaptation procedure**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1878 Cat: F (Rel-17)  
  
 Source: Samsung, Intel, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235032**.

**S3-235032 [IAB][Rel-17] IAB inter-CU topology adaptation procedure**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1878 rev 1 Cat: F (Rel-17)  
  
 Source: Samsung, Intel, Nokia, Nokia Shanghai Bell*

(Replaces S3-234828)

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

**S3-234829 [IAB][Rel-18] IAB inter-CU topology adaptation procedure**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1879 Cat: F (Rel-18)  
  
 Source: Samsung, Intel, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235033**.

**S3-235033 [IAB][Rel-18] IAB inter-CU topology adaptation procedure**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1879 rev 1 Cat: A (Rel-18)  
  
 Source: Samsung, Intel, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-234829)

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

**S3-234925 Guidance on mitigating privacy risk of variable length NAI-based SUPIs**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1808 rev 2 Cat: F (Rel-19)  
  
 Source: InterDigital Communications, Nokia*

(Replaces S3-234854)

**Abstract:**

The FS\_Id\_Prvc study concluded that informative guidance on how operators can protect against the potential threat of anonymity set reduction in 5GS when using NAI-based SUPIs that are of variable length is recommended to be added to TS 33.501.

This CR i

**Discussion:**

MCC comment: dangerous to mention a study when introducing a CR, even if the change is not normative.

The NOTE should not have a recommendation, so better to have NOTE 0 as plain text instead.

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

**S3-234933 Establishing IPsec SAs for IAB inter-CU topology adaptation and backhaul RLF recovery procedure**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1838 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-234703)

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

**S3-234936 Updating the FC values**

*Type: CR For: Agreement  
 33.220 v17.4.0 CR-0226 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-234705)

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

**S3-234938 Updating the FC values**

*Type: CR For: Agreement  
 33.220 v18.1.0 CR-0227 rev 1 Cat: A (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-234706)

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

**S3-234538 N3IWF procedure clarification**

*Type: CR For: Agreement  
 33.501 v15.17.0 CR-1796 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234539 N3IWF procedure clarification**

*Type: CR For: Agreement  
 33.501 v16.16.0 CR-1797 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234540 N3IWF procedure clarification**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1798 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234541 N3IWF procedure clarification**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1799 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235082**.

**S3-235082 N3IWF procedure clarification**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1799 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234541)

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

**S3-234577 AUSF sends back MSK to W-AGF after successful EAP authentication**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1810 Cat: C (Rel-18)  
  
 Source: CableLabs*

**Discussion:**

Nokia: is this a correction or a functional modification? Rel-18 is frozen.

Huawei: alignment with CT4 definitions, so it can be cat-F. Nokia wasn’t sure about this.

Huawei: this should be done in Rel-17 as well.

**Decision:** The document was **revised to S3-235048**.

**S3-235048 AUSF sends back MSK to W-AGF after successful EAP authentication**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1810 rev 1 Cat: F (Rel-18)  
  
 Source: CableLabs*

(Replaces S3-234577)

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

**S3-234585 Remove the EN on I.10.3.1**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1811 Cat: F (Rel-18)  
  
 Source: ZTE*

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

**S3-234545 SOR UPU NVM issue**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1802 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234708 Handling of SoR/UPU Counter stored in NVM**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1746 rev 1 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-233892)

**Decision:** The document was **revised to S3-235052**.

**S3-235052 Handling of SoR/UPU Counter stored in NVM**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1746 rev 2 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-234708)

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

**S3-234419 Correction in trusted non-3GPP access authentication**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1894 Cat: F (Rel-19)  
  
 Source: Lenovo*

**Discussion:**

Same change in 4759.

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

**S3-234669 CR on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203**

*Type: CR For: Approval  
 33.203 v17.1.0 CR-0274 Cat: F (Rel-18)  
  
 Source: Apple*

**Discussion:**

Huawei: fine with the original proposal from Apple but this is different.

Nokia: issues with the first change.Huawei agreed that it wasn’t needed.

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

**S3-234879 Correction of reference and related text**

*Type: CR For: Approval  
 33.310 v18.1.0 CR-0175 Cat: F (Rel-18)  
  
 Source: Orange*

**Decision:** The document was **revised to S3-235020**.

**S3-235020 Correction of reference and related text**

*Type: CR For: Approval  
 33.310 v18.1.0 CR-0175 rev 1 Cat: A (Rel-18)  
  
 Source: Orange*

(Replaces S3-234879)

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

**S3-234915 Correction of reference and related text**

*Type: CR For: Approval  
 33.310 v17.7.0 CR-0176 Cat: A (Rel-17)  
  
 Source: Orange*

**Decision:** The document was **revised to S3-235021**.

**S3-235021 Correction of reference and related text**

*Type: CR For: Approval  
 33.310 v17.7.0 CR-0176 rev 1 Cat: A (Rel-17)  
  
 Source: Orange*

(Replaces S3-234915)

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

**S3-234916 Correction of reference and related text**

*Type: CR For: Approval  
 33.310 v16.14.0 CR-0177 Cat: A (Rel-16)  
  
 Source: Orange UK*

**Decision:** The document was **revised to S3-235022**.

**S3-235022 Correction of reference and related text**

*Type: CR For: Approval  
 33.310 v16.14.0 CR-0177 rev 1 Cat: F (Rel-16)  
  
 Source: Orange UK*

(Replaces S3-234916)

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

**S3-234920 Correction to Figure 16.4-1**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1893 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The figure is not available for all readers.

**Discussion:**

Ericsson: no change, it’s an editorial change because the figure is not visible in TS 33.501.

This had to be checked.

MCC commented that they could check this during CR implementation.

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

**S3-234927 Correction to Figure 16.4-1**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1895 Cat: A (Rel-18)  
  
 Source: Ericsson*

**Abstract:**

The figure is not available for all readers.

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

**S3-234542 Discussion paper on security aspect of NF accessing the external AF services**

*Type: discussion For: Discussion  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234543 Framework for NF accessing the external AF data**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1800 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234544 Framework for NF accessing the external AF data**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1801 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234575 Replace reference to IETF draft-emu-eap-tls13 in annex B with RFC 9190**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1809 Cat: F (Rel-18)  
  
 Source: CableLabs*

**Discussion:**

Qualcomm: it's the same document, we don’t need to void the existing reference.

**Decision:** The document was **revised to S3-235042**.

**S3-235042 Replace reference to IETF draft-emu-eap-tls13 in annex B with RFC 9190**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1809 rev 1 Cat: F (Rel-18)  
  
 Source: CableLabs*

(Replaces S3-234575)

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

**S3-234650 Update the abbreviation list to include CPA and CPC R17**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1826 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-234651 Update the abbreviation list to include CPA and CPC R18**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1827 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234766 Authentication result removal**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1856 Cat: B (Rel-19)  
  
 Source: Huawei, HiSilicon*

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

**S3-234957 Add the case of a failed AUTS verification in the UDM/ARPF to the synchronization failure recovery of the Home Network**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1897 rev 1 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-234932)

**Discussion:**

Ericsson: privacy attack is not clear.

Nokia: fine with the text, the justification can be adjusted.

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

**S3-234959 Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure**

*Type: CR For: Approval  
 33.102 v17.0.0 CR-0283 rev 2 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-234958)

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

**S3-234551 Discussion paper on automated additions of root CAs certificates using CMP**

*Type: discussion For: Information  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234552 Automated additions of root CAs certificates using CMP**

*Type: CR For: Agreement  
 33.310 v18.1.0 CR-0170 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

MCC commented that this looked like a rel-19 change,there was no correction being made. It was commented that this was no addition of a feature or a functional modification.

Ericsson: no rush, let's postpone this.

Ericsson commented that this was considered as an expansion.

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

**S3-234566 Rel-18 Work Item Exception for FS\_PIN\_Sec**

*Type: WI exception request For: Approval  
 Source: InterDigital Communications*

**Abstract:**

This contribution proposes an Exception Sheet for Study on personal Internet of Things (IoT) networks security aspects.

**Discussion:**

MCC: we don’t need exception sheets for studies.

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

**S3-234587 Update the clause 6.6.3.3 in 33.503**

*Type: CR For: Agreement  
 33.503 v18.0.0 CR-0128 Cat: F (Rel-18)  
  
 Source: ZTE*

**Discussion:**

Huawei didn’t agree with the changes in the first paragraph.Qualcomm supported this comment.

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

**S3-234796 Update UE terminating procedures for e2DCe**

*Type: CR For: Agreement  
 33.328 v18.0.0 CR-0072 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234797 Change of the abbreviation "DCMF to "MF" and related changes to the text and figures**

*Type: CR For: Agreement  
 33.328 v18.0.0 CR-0073 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234798 Add the abbreviation "IMS AS"**

*Type: CR For: Agreement  
 33.328 v18.0.0 CR-0074 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234799 Remove "DC Application Server" in Figure N.3.4-1 and add a NOTE**

*Type: CR For: Agreement  
 33.328 v18.0.0 CR-0075 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234800 Editorial changes to clause 7.2.5**

*Type: CR For: Agreement  
 33.328 v18.0.0 CR-0076 Cat: D (Rel-18)  
  
 Source: Ericsson*

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

**S3-234801 Change the "P-CSCF(IMS AS)" to "IMS AS via the P-CSCF"**

*Type: CR For: Agreement  
 33.328 v18.0.0 CR-0077 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-234821 Handling of 3gpp-Sbi-Originating-Network-Id header in the SNPN case**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1873 Cat: F (Rel-17)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

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

**S3-234822 Handling of 3gpp-Sbi-Originating-Network-Id header in the SNPN case**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1874 Cat: A (Rel-18)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

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

**S3-234823 Discussion of the Verification of the serving network name by the AUSF**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-234824 Verification of the serving network name by the AUSF**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1875 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-234825 Verification of the serving network name by the AUSF**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1876 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-234433 Evaluation of different options of security for selective SCG Activation.**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234434 Security for Selective SCG Activation**

*Type: draftCR For: (not specified)  
 33.501 v18.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234648 draftCR on Securtiy of Selective SCG Activation**

*Type: draftCR For: Approval  
 33.501 v18.3.0  
 Source: Huawei, HiSilicon, Qualcomm Incorporated, Ericsson, Nokia, Nokia Shanghai Bell, Samsung*

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

**S3-234666 Updates to Security for Selective SCG Activation**

*Type: draftCR For: (not specified)  
 33.501 v18.3.0  
 Source: Intel*

**Decision:** The document was **revised to S3-235100**.

**S3-235100 Updates to Security for Selective SCG Activation**

*Type: draftCR For: -  
 33.501 v18.3.0  
 Source: Intel*

(Replaces S3-234666)

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

**S3-234696 Security for subsequent CPAC**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1837 Cat: B (Rel-18)  
  
 Source: OPPO*

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

**S3-234737 Security for Subsequent Conditional PSCell Addition or Change**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

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

**S3-234830 Discussion paper on Selective SCG activation**

*Type: discussion For: Discussion  
 Source: Samsung*

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

**S3-234831 Security for Selective SCG Activation**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1880 Cat: B (Rel-18)  
  
 Source: Samsung*

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

**S3-234420 Discussion on UPU Header Security**

*Type: discussion For: Discussion  
 33.501 v..  
 Source: Lenovo*

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

**S3-234421 UPU Header Security**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1896 Cat: F (Rel-18)  
  
 Source: Lenovo*

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

**S3-235047 UPU Header Security**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1896 rev 1 Cat: F (Rel-18)  
  
 Source: Lenovo*

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

**S3-234548 Discussion paper of UPU implementation gaps**

*Type: discussion For: Discussion  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234549 Enhancement in UPU procedure to protect UPU header**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1803 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234586 Remove the 5G-GUTI in the Registration Reject message in clause 7.2.1 and 7A.2.1**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1812 Cat: F (Rel-18)  
  
 Source: ZTE*

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

**S3-234667 Remove the 5G-GUTI in the Registration Reject message in clause 7.2.1 and 7A.2.1**

*Type: CR For: (not specified)  
 33.501 v18.3.0 CR-1832 Cat: F (Rel-18)  
  
 Source: Intel*

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

**S3-234654 Update step 8 in AUN3 devices supporting 5G key hierarchy procedure**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1829 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234759 Correction of Figure 7A.2.1-1**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1854 Cat: F (Rel-18)  
  
 Source: Ericsson,Lenovo*

**Discussion:**

Same change in 4419. Lenovo added as a co-signer.

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

**S3-234867 Discussion SNAAPP-CAPIF RNAA authorization methods and related interfaces**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234536 Removing GUTI from Registration Reject**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1794 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235045**.

**S3-235045 Removing GUTI from Registration Reject**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1794 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234536)

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

**S3-234537 NULL encryption clarification**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1795 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-235046**.

**S3-235046 NULL encryption clarification**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1795 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-234537)

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

**S3-234561 Guidance on mitigating privacy risk of variable length NAI-based SUPIs**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1808 Cat: F (Rel-19)  
  
 Source: InterDigital Communications, Nokia*

**Abstract:**

The FS\_Id\_Prvc study concluded that informative guidance on how operators can protect against the potential threat of anonymity set reduction in 5GS when using NAI-based SUPIs that are of variable length is recommended to be added to TS 33.501.

This CR a

**Decision:** The document was **revised to S3-234854**.

**S3-234588 Discussion on the AKMA context removal and A-KID update after UPU**

*Type: discussion For: Discussion  
 33.535 v..  
 Source: ZTE Corporation*

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

**S3-234701 Discussion on protecting header information in UPU**

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

(Replaces S3-233869)

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

**S3-234702 Protection of UPU header**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1612 rev 2 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-233870)

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

**S3-234703 Establishing IPsec SAs for IAB inter-CU topology adaptation and backhaul RLF recovery procedure**

*Type: CR For: Agreement  
 33.501 v17.11.1 CR-1838 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-234933**.

**S3-234705 Updating the FC values**

*Type: CR For: Agreement  
 33.220 v17.4.0 CR-0226 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-234936**.

**S3-234706 Updating the FC values**

*Type: CR For: Agreement  
 33.220 v18.1.0 CR-0227 Cat: A (Rel-18)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-234938**.

**S3-234724 Guidance on mitigating privacy risk of variable length NAI based SUPIs**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1846 Cat: F (Rel-18)  
  
 Source: Ericsson, Qualcomm Incorporated*

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

**S3-234854 Guidance on mitigating privacy risk of variable length NAI-based SUPIs**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1808 rev 1 Cat: F (Rel-19)  
  
 Source: InterDigital Communications, Nokia*

(Replaces S3-234561)

**Abstract:**

The FS\_Id\_Prvc study concluded that informative guidance on how operators can protect against the potential threat of anonymity set reduction in 5GS when using NAI-based SUPIs that are of variable length is recommended to be added to TS 33.501.

This CR i

**Decision:** The document was **revised to S3-234925**.

**S3-234926 Discussion paper on 33.122 updates and responses for reply-LS on SNAAPPY**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234932 Add the case of a failed AUTS verification in the UDM/ARPF to the synchronization failure recovery of the Home Network**

*Type: CR For: Approval  
 33.501 v18.3.0 CR-1897 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-234957**.

**S3-234934 Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure**

*Type: CR For: Approval  
 33.102 v17.0.0 CR-0283 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-234958**.

**S3-234945 resolving RNA stage 2 editor's notes**

*Type: CR For: Agreement  
 33.122 v18.1.0 CR-0056 Cat: F (Rel-18)  
  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-234961**.

**S3-234958 Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure**

*Type: CR For: Approval  
 33.102 v17.0.0 CR-0283 rev 1 Cat: F (Rel-19)  
  
 Source: BSI (DE)*

(Replaces S3-234934)

**Decision:** The document was **revised to S3-234959**.

### 4.2 New WID on 5G Security Assurance Specification (SCAS) for the Unified Data Repository (UDR).

### 4.3 New WID on SCAS for Rel-18 features on existing functions.

**S3-234422 Evidence correction for 33.117**

*Type: CR For: Agreement  
 33.117 v18.1.0 CR-0130 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon, Deutsche Telecom, T-mobile, ZTE, Nokia, Ericsson, China Mobile, Federal Office for Information Security (BSI), TELUS, MITRE*

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

**S3-234519 SCAS AUSF - Serving network management**

*Type: CR For: Approval  
 33.516 v18.0.0 CR-0007 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

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

### 4.4 New WID on 5G Security Assurance Specification (SCAS) for the Short Message Service Function (SMSF).

**S3-234674 TS 33.529 Skeleton for Security Assurance Specification for Short Message Service Function (SMSF)**

*Type: draft TS For: (not specified)  
 33.529 v0.1.0  
 Source: IIT Bombay*

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

**S3-234675 Scope of Security Assurance Specification for Short Message Service Function (SMSF)**

*Type: pCR For: (not specified)  
 33.529 v0.1.0  
 Source: IIT Bombay*

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

**S3-234676 References of Security Assurance Specification for Short Message Service Function (SMSF)**

*Type: pCR For: (not specified)  
 33.529 v0.1.0  
 Source: IIT Bombay*

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

**S3-234808 Definitions of terms, symbols and abbreviations of Security Assurance Specification for Short Message Service Function (SMSF)**

*Type: pCR For: (not specified)  
 33.529 v0.1.0  
 Source: IIT Bombay*

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

**S3-235044 Draft TS 33.529**

*Type: draft TS For: Approval  
 33.529 v0.2.0  
 Source: IIT Bombay*

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

### 4.5 New WID on Addition of 256-bit security Algorithms.

**S3-234424 Introduction of the Snow 5G 256-bits algorithm specification**

*Type: draft TS For: (not specified)  
 35.240 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Nokia commented that this implied a change in what was planned in the WID.

Qualcomm was concerned on the decision about using the combined algorithm. The Chair clarified that this wasn’t for Rel-18 anyway and no decision had been made yet. Qualcomm thought that it might be better to go back and ask SAGE to separate the algorithms and have a new naming. They also pointed out the difficulty of discussing non public documents when comments needed to be made. The Chair commeanted that a call with SAGE could be arranged and take a new meeting cycle.

Qualcomm: the link to the ETSI website doesn’t work now because the algorithm is not approved. It was suggested to have it as an editor's note.

Nokia commented that SAGE replied that the algorithms couldn’t be split.They asked if it was possible to have a call with SAGE by the end of January, before the Athens meeting.

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

**S3-234425 Introduction of the Snow 5G 256-bits implementers’ test data**

*Type: draft TS For: (not specified)  
 35.241 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234426 Introduction of the Snow 5G 256-bits design conformance test data**

*Type: draft TS For: (not specified)  
 35.242 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234427 Introduction of the AES 256-bits algorithm specification**

*Type: draft TS For: (not specified)  
 35.243 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234428 Introduction of the AES 256-bits implementers’ test data**

*Type: draft TS For: (not specified)  
 35.244 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234429 Introduction of the AES 256-bits design conformance test data**

*Type: draft TS For: (not specified)  
 35.245 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234430 Introduction of the ZUC based 256-bits algorithm specification**

*Type: draft TS For: (not specified)  
 35.246 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234431 Introduction of the ZUC 256-bits implementers’ test data**

*Type: draft TS For: (not specified)  
 35.247 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234432 Introduction of the ZUC 256-bits design conformance test data**

*Type: draft TS For: (not specified)  
 35.248 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

## 5 Rel-19 Studies

## 6 New Study/Work item proposals

### 6.1 Release/TU management

**S3-234568 5G PQC Planning and Threats**

*Type: discussion For: Information  
 Source: U.S. National Security Agency*

**Abstract:**

Presentation on Post Quantum Cryptography, the threats it poses to 5G and how to prepare for it.

**Discussion:**

Dell commented that more use cases needed to be introduced.

Is the work done in other standards groups being considered? NSA replied that this was not a 3GPP problem only, so groups like IETF are also involved. GSMA is also looking at quantum for 5G threats.

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

**S3-234827 Input to Rel-19 prioritization and time planning**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Discussion:**

Motorola: security related to the work in other WGs is not here.

Ericsson: we always have to do that.

Huawei: we have concerns on the simplistic view of "we don’t know what RAN or SA is doing".

The Chair had a proposal in tdoc 853.

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

**S3-234853 Rel-19 TU management**

*Type: other For: Discussion  
 Source: SA WG3 Chair*

**Discussion:**

Huawei: concerned about not having a meeting in April. 2024 This is a big gap of 6 months not doing anything. We ended up being overwhelmed by waiting for progress from other groups, we need to be more proactive.

NTT-Docomo: harder to have many small WIDs than fewer bigger WIDs.

Lenovo: we need help from other WGs about the timeline of their work.

OPPO: anticipate the big items coming from SA2 and RAN.Have some additional adhocs, conference calls.

Nokia: endorse studies can be endorsed and sent to SA and RAN groups.

Qualcomm: not comfortable endorsing.

Interdigital: there is work that can be separately in separate streams (e.g. SCAS).

Apple: we need to evaluate whether the work started in other WGs needs security work.

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

### 6.2 SID/WID proposals for SA3 prime topics

**S3-234416 Discussions for Rel-19 Study on enablers for ZTS**

*Type: discussion For: Discussion  
 Source: Lenovo, Motorola Mobility*

(Replaces S3ah-230011)

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

**S3-234417 New SID on enablers for Zero Trust Security**

*Type: SID new For: Approval  
 Source: Lenovo, Motorola Mobility, MITRE, Interdigital, Motorola Solutions, Charter Communications, Johns Hopkins University APL, Intel, US National Security Agency, Telefonica, NCSC, OTD\_US, Deutsche Telekom, Keysight Technologies, Center for Internet Security,*

(Replaces S3ah-230012)

**Discussion:**

Huawei: WT3 is more about the next step, not key issues and solutions. This is not in scope of the study.There was no agreement in the previous study, so the outcome shouldn’t be referred here. We still have concerns about WT1, we believe that it will lead to the same discussions we had in the previous study.

John Hopkins: the outcome refers to the gap analysis we did in that study.

Ericsson: the objectives are not clear, it needs further work.

**Decision:** The document was **revised to S3-235089**.

**S3-235089 New SID on enablers for Zero Trust Security**

*Type: SID new For: Approval  
 Source: Lenovo, Motorola Mobility, MITRE, Interdigital, Motorola Solutions, Charter Communications, Johns Hopkins University APL, Intel, US National Security Agency, Telefonica, NCSC, OTD\_US, Deutsche Telekom, Keysight Technologies, Center for Internet Security,*

(Replaces S3-234417)

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

**S3-234418 Rel-19 eZTS Proposal\_Oflline Call Minutes**

*Type: discussion For: Information  
 Source: Lenovo, Motorola Mobility*

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

**S3-234502 Study of ACME for Automated Certificate Management in SBA**

*Type: SID new For: Approval  
 Source: Cisco Systems, Google, Mavenir, CableLabs, Charter Communications, AT&T, Microsoft, TELUS, DISH Network, Deutsche Telekom, Johns Hopkins University APL*

**Discussion:**

Ericsson: Trust in Cloud native platforms should also be studied.

Google: yes, it's part of the study.

Nokia: impact of virtualization impact on certificate management is not being considered here. In addition, is it good to have a new protocol in Rel-19?

It was commented that life cycle management of certificates need to be considered.

Huawei: justification reads that this is the best alternative due to virtualization is a bit far fetched. Please remove this part.

AT&T: SBA will be here for many releases, no issue with having a new protocol for certificate management.

**Decision:** The document was **revised to S3-235090**.

**S3-235090 Study of ACME for Automated Certificate Management in SBA**

*Type: SID new For: Approval  
 Source: Cisco Systems, Google, Mavenir, CableLabs, Charter Communications, AT&T, Microsoft, TELUS, DISH Network, Deutsche Telekom, Johns Hopkins University APL*

(Replaces S3-234502)

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

**S3-234504 Discussion on the Study on enabling 256-bits cryptographic algorithms**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: this can be done in parallel with the creation of the 256-bit specs. Coexistence of current algorithms and these algorithms will have to be studied.

GSMA: we have done this in 3GPP before. From 64 to 128 bits, without a massive study. Let's check what we did before. Focus on the symmetric 256-bit algorithms, not the asymmetric ones.

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

**S3-234505 Study on Alternative Authentication without Access to a Centralized 5G Core**

*Type: SID new For: Approval  
 Source: US Department of Homeland Security, The MITRE Corporation, Dell Technologies, AT&T, Apple, InterDigital, Cable Labs, Keysight Technologies*

**Discussion:**

ORANGE: it describes a service that is not addressed in SA1. It should be first be treated in SA1 and SA2 firstly.

Huawei: this was discussed in IOPS back in 4G, but it has an architectural impact that is not in scope of SA3.

IDEMIA: mission critical networks, private networks are in scope? It needs to be clarified.

KPN: it should be studied in the context of IOPS, consider what has been done there. Thales supported this, adding that SA1 and SA2 should be involved first.

Lenovo: disaster roaming work in SA2 could be related.

Dell: these are solid requirements that are worth working on.

The Chair commented that these were new scenarios to be taken into account firstly in SA1, currently out of scope of SA3.

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

**S3-234517 New SID on study on enabling a cryptographic algorithm transition to 256 bits**

*Type: SID new For: Approval  
 Source: KDDI Corporation*

**Discussion:**

Apple supported this SID. Maybe no impact on the RAN interface but on the products.

**Decision:** The document was **revised to S3-235091**.

**S3-235091 New SID on study on enabling a cryptographic algorithm transition to 256 bits**

*Type: SID new For: Approval  
 Source: KDDI Corporation*

(Replaces S3-234517)

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

**S3-234518 Discussion paper on transition to 256-bit cryptographic algorithms**

*Type: discussion For: Endorsement  
 Source: KDDI Corporation*

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

**S3-234533 New mini WID on AKMA service disabling**

*Type: WID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell, ZTE, ChinaMobile*

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

**S3-234546 Discussion on AKMA privacy issue**

*Type: discussion For: Discussion  
 33.535 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei didn’t think this was correct.

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

**S3-234558 Discussion paper on certificate bound access token in SBA OAuth framework**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Supported by Ericsson.They proposed to add it to the SBA study.MITRE supported this as well.

It was agreed that this was acceptable and Nokia was invited to bring a concrete WID or proposal for the next meeting.

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

**S3-234563 New SID on security enhancement for mobility over non-3GPP access to avoid full primary authentication**

*Type: SID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell, CableLabs, Charter Communications, Broadcom, Lenovo, Xiaomi, ChinaMobile, Google, ZTE, Apple Keysight Technologies, LGE, Rogers Communications, Philips International B.V., IIT Delhi, Intel Corporation (UK) Ltd*

**Discussion:**

ORANGE: what is the delay described here? What’s the gain? The justification is not enough for me.

Qualcomm: lot of new scenarios. They didn’t see the need for this SID.

Lenovo supported the SID.

**Decision:** The document was **revised to S3-235105**.

**S3-235105 New SID on security enhancement for mobility over non-3GPP access to avoid full primary authentication**

*Type: SID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell, CableLabs, Charter Communications, Broadcom, Lenovo, Xiaomi, ChinaMobile, Google, ZTE, Apple Keysight Technologies, LGE, Rogers Communications, Philips International B.V., IIT Delhi, Intel Corporation (UK) Ltd*

(Replaces S3-234563)

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

**S3-234567 Discussion on R19 priorities**

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

**Abstract:**

Brief presentation on MITRE priority topics and objectives for R19

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

**S3-234981 Discussion on R19 priorities**

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

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

**S3-234569 NIST Post Quantum Cryptography Update**

*Type: discussion For: Information  
 Source: NIST*

**Abstract:**

NIST post quantum cryptography update informative discussion slides

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

**S3-234576 Discussion paper supporting Rel-19 study on enablers for Zero Trust Security**

*Type: discussion For: Discussion  
 Source: Johns Hopkins University APL*

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

**S3-234578 New SID on application login via IMS**

*Type: SID new For: Agreement  
 Source: China Telecom Corporation Ltd.*

**Discussion:**

ORANGE: you need to go to SA1 first.

Google supported this SID.

Nokia didn’t support it.

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

**S3-234579 Discussion paper on application login via IMS**

*Type: discussion For: Discussion  
 Source: China Telecom Corporation Ltd.*

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

**S3-234601 Discussions for R19 security enhancement of network slicing**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

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

**S3-234602 R19 SID on security enhancement of network slicng**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson: this is not needed.

Google: clarification on how this will be used is needed.

Nokia: concerns on WT2.

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

**S3-234603 Discussions for R19 UAS security**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

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

**S3-234604 R19 SID on UAS security enhancement**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-234623 Discussion on Mitigations on Bidding Down Attack**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

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

**S3-234624 New study proposal on Mitigations on Bidding Down Attack**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Discussion:**

CableLabs: there isn't much we can do about mittigating the bidding down attacks.

Nokia: restrict to decomission of 2G and 3G base stations, we have other comments but we support the study.

GSMA: in Rel-15 we decided to allow backwards compatibility with 3G. We deliberately chose to allow this, so I'm not convinced to come back to this. However, we think this must be avoided in 6G. Not much can be done in 5G but definitely something to avoid in 6G.

Apple: impact only on UE. We don’t need WT1.1 and WT1.2.

ORANGE: on the impact we usually write "don’t know".

**Decision:** The document was **revised to S3-235096**.

**S3-235096 New study proposal on Mitigations on Bidding Down Attack**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-234624)

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

**S3-234634 Discussion on NEF–AF Exposure Security Enhancement**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

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

**S3-234635 New SID on 5G Security Enhancement for NEF**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson: we support this because we had a similar proposal (tdoc 4774). We need clear definitions and clear assumptions.

Lenovo: objectives and justification need to be refined.

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

**S3-234657 Discussion on key misalignment**

*Type: discussion For: Endorsement  
 Source: Huawei, HiSilicon*

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

**S3-234668 SERP-revised WID for R19 SERP**

*Type: WID new For: Approval  
 Source: Apple*

**Discussion:**

Qualcomm: we spent long time on this, we don’t agree.

Ericsson supported the WID.

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

**S3-234672 SERP-Discussion paper on SERP feature summary**

*Type: discussion For: Information  
 Source: Apple*

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

**S3-234673 SERP-LS on security protection on RRCResumeRequest message**

*Type: LS out For: Approval  
 to RAN, RAN2, RAN3  
 Source: Apple*

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

**S3-234678 New SID on Security Enhancements for URSP in Roaming Scenarios**

*Type: SID new For: Approval  
 Source: Lenovo, Nokia, Nokia Shanghai Bell, Philips, Intel, Interdigital*

**Discussion:**

Google: is this a problem that the operators are facing? Not sure we are solving the problem of misbehaving VPLMNs.

NTT-Docomo: if we don’t trust the VPLMN we are in a much bigger problem that we are considering here.

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

**S3-234679 New SID on Double Layer Security Optimization**

*Type: SID new For: Approval  
 Source: Lenovo, BROADCOM CORPORATION, CableLabs, CATT, Charter Communications, Inc, China Mobile, CISCO, Deutsche Telekom, InterDigital, Inc., LG Electronics, Nokia, Tencent, vivo Mobile Communication Co., Xiaomi, ZTE Corporation*

**Discussion:**

Wrong WID template used.

It was commented that this needed to have further analysis on the Impact on the UPF.

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

**S3-235092 New SID on Double Layer Security Optimization**

*Type: SID new For: Approval  
 Source: Lenovo, BROADCOM CORPORATION, CableLabs, CATT, Charter Communications, Inc, China Mobile, CISCO, Deutsche Telekom, InterDigital, Inc., LG Electronics, Nokia, Tencent, vivo Mobile Communication Co., Xiaomi, ZTE Corporation*

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

**S3-234689 Discussion on the A-KID update after UPU**

*Type: discussion For: Discussion  
 Source: ZTE Corporation.*

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

**S3-234681 New WID on Milenage-256 algorithm**

*Type: WID new For: Agreement  
 Source: THALES, Idemia, NIST, ORANGE, Nokia, Telecom Italia*

**Discussion:**

Ericsson: we believe that these specifications should be made publicly available, no license required.

Qualcomm: there may be some encryption here, not only authentication. Not clear that this should be made public.

**Decision:** The document was **revised to S3-235072**.

**S3-235072 New WID on Milenage-256 algorithm**

*Type: WID new For: Agreement  
 Source: THALES, Idemia, NIST, ORANGE, Nokia, Telecom Italia*

(Replaces S3-234681)

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

**S3-234690 Study on privacy aspects of collection and sharing management data**

*Type: SID new For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell, IIT Delhi, Interdigital, Lenovo, AT&T, CMCC, Apple*

**Discussion:**

COMCAST provided inputs for Nokia. They supported the SID.

Apple: not sure about impact on UICC.

Huawei: not clear enough. It may be purely OAM. The TU may not be enough for these topics. Not sure about the protection of the interfaces.

NTT-Docomo: super set of the radio identity privacy study? The number of TU doesn’t reflect the amount of work required for this. It’s very complex.

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

**S3-235093 Study on privacy aspects of collection and sharing management data**

*Type: SID new For: -  
 Source: Nokia, Nokia Shanghai Bell, IIT Delhi, Interdigital, Lenovo, AT&T, CMCC, Apple*

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

**S3-234691 New mini WID on AKMA identifier update**

*Type: WID new For: Approval  
 Source: ZTE Corporation.*

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

**S3-234725 New WID on 3GPP profiles for cryptographic algorithms and security protocols**

*Type: WID new For: Agreement  
 Source: Ericsson*

**Discussion:**

Cable Labs, Apple supported this WID.

Qualcomm: remove the last paragraph of the objectives.

Huawei: There is no rush for this. GBA not related to crypto maintenance, it can be dealt with a mini WID. This is a new feature. It would also be nice to see what is going to be changed. It looks like speculation now.

Deutsche Telekom supported this WID.

Ericsson commented that the CRs were brought in Berlin and it was asked to bring a WID.

NTT-Docomo supported having this as early as possible.

**Decision:** The document was **revised to S3-235094**.

**S3-235094 New WID on 3GPP profiles for cryptographic algorithms and security protocols**

*Type: WID new For: Agreement  
 Source: Ericsson*

(Replaces S3-234725)

**Discussion:**

NTT-Docomo: pleae bring CRs early because there is a lot of background to be done.

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

**S3-234726 Study on enhanced Security Aspects of the 5G Service Based Architecture Phase 2**

*Type: SID new For: Agreement  
 Source: Ericsson, Deutsche Telekom, Verizon, ZTE, China Telecom*

**Discussion:**

Cable Labs: we don’t need a study for this, it can be done with a WID and CRs.

Nokia: most of the text here is providing solutions, the study is not needed.

Huawei: we don’t mind having a study. Avoid reopening issues that were not agreed.

CableLabs: make it a WID, nthing to study here.

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

**S3-235097 Study on enhanced Security Aspects of the 5G Service Based Architecture Phase 2**

*Type: SID new For: Agreement  
 Source: Ericsson, Deutsche Telekom, Verizon, ZTE, China Telecom*

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

**S3-234740 Discussion on Security Management Serives Study**

*Type: discussion For: Discussion  
 Source: China Mobile*

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

**S3-234741 New SID on security management service**

*Type: SID new For: Approval  
 Source: China Mobile*

**Decision:** The document was **revised to S3-234773**.

**S3-234742 New SID on Study on security aspects of AIML enhancements**

*Type: SID new For: Approval  
 Source: China Mobile*

**Decision:** The document was **revised to S3-234805**.

**S3-234743 Discussion on security for XR**

*Type: discussion For: Discussion  
 Source: China Mobile*

**Decision:** The document was **revised to S3-234791**.

**S3-234744 New SID on security for XR services**

*Type: SID new For: Approval  
 Source: China Mobile*

**Decision:** The document was **revised to S3-234804**.

**S3-234750 New SID on security support for next generation real time communication services Phase 2**

*Type: SID new For: Approval  
 Source: China Mobile*

**Decision:** The document was **revised to S3-234806**.

**S3-234773 New SID on security management service**

*Type: SID new For: Approval  
 Source: China Mobile, ZTE, Nokia, Nokia Shanghai Bell, CATT, CableLabs, China Telecom*

(Replaces S3-234741)

**Discussion:**

Adrian (MITRE): a lot of overlap with topics like Zero Trust.

OPPO wanted to be added as supporting company.

NTT-Docomo: I don’t understand the outcome of this SID.

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

**S3-234774 New SID on NEF - AF Exposure security enhancements**

*Type: SID new For: Agreement  
 Source: Ericsson*

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

**S3-234803 Proposal for a living document for the Protection of the RRC Resume Request message**

*Type: draftCR For: Approval  
 33.501 v18.3.0  
 Source: Ericsson, Apple*

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

**S3-234873 SID on Security considerations for 5G SA roaming**

*Type: SID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

NTT-Docomo: address it as a one shot SID.

Verizon supported this SID.

Huawei: we can take this a bit later, we cannot commit to study this topic in this meeting.

Cable Labs: support hop by hop and end to end, they are not mutually esclusive.

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

**S3-234874 SID on 5G Security Assurance Specification (SCAS) for the Cloud Native Products (CNP)**

*Type: SID new For: Agreement  
 Source: Ericsson*

**Abstract:**

Current generation Network functions that are using Cloud Native architecture should be studied to ensure the security of Cloud Native deployments.

**Discussion:**

Nokia found this very challenging.

Huawei didn’t agree with this SID.They wondered: can current specs be reused to test this product? Too broad, cloud native is not defined in 3GPP.

GSMA: ITU-T SG17 has started work on this, ISO will do so as well. 3GPP is taking the risk of missing something that will likely be mandatory in Europe.There is a gap that we keep failing to fill.

NTT-Docomo: in TS 33.117 we had opposition against issues like password use that proved to be useful. We need test cases for issues we see in actualy deployments.

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

**S3-234876 discussion on resource isolation enforcement for application in 5G network**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3ah-230020)

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

**S3-234877 Study on resource isolation enforcement for application in 5G network**

*Type: SID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell, U.S. National Security Agency, NIST, CableLabs, China Telecommunications, Google*

(Replaces S3ah-230021)

**Discussion:**

ORANGE didn’t have the scope very clear.

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

**S3-235095 Study on resource isolation enforcement for application in 5G network**

*Type: SID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell, U.S. National Security Agency, NIST, CableLabs, China Telecommunications, Google*

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

### 6.3 SID/WID proposals for feature security dependent on other WGs

**S3-234406 New WID on mission critical security enhancements for release 19**

*Type: WID new For: Agreement  
 Source: Motorola Solutions Germany*

**Abstract:**

New WID on mission critical security release 19

**Decision:** The document was **revised to S3-234946**.

**S3-234503 Modified PRINS for roaming service providers in 5G**

*Type: WID revised For: Approval  
 Source: Verizon UK Ltd*

(Replaces SP-231190)

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

**S3-234508 New SID on security aspects of Usage of User Identifiers in the 5G System**

*Type: SID new For: Approval  
 Source: InterDigital Finland Oy*

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

**S3-234559 New SID on security aspects for Multi-Access**

*Type: SID new For: Information  
 Source: Nokia, Nokia Shanghai Bell, ZTE Corporation, China Telecom, OPPO, China Unicom, CATT, CableLabs, Lenovo*

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

**S3-234570 Study on Security Aspects of 5G Satellite Access Phase 2**

*Type: SID new For: Approval  
 Source: CATT, Nokia, Xiaomi, CAICT, China Mobile, China Unicom, ZTE, Deutsche Telekom, Thales, China Telecommunications, Samsung, Sectra Communications*

**Discussion:**

Ericsson: no satellite representatives in SA3, although they are present in other WGs like SA2 and RAN2. We need to requrest to them their participation since I don't see them in the supporting companies.

Spoofing, jamming still apply to satellite and should be included. If we study these things here, will the satellite stakeholders will implement our solutions to prevent those? Otherwise there will be much effort for something that will never see the daylight. The Chait was concerned that these new issues would utilise many more TU.

Interdigital: send an LS to SA2,RAN to ask for satellite stakeholders' assistance. Ericsson supported this.

**Decision:** The document was **revised to S3-235103**.

**S3-235103 Study on Security Aspects of 5G Satellite Access Phase 2**

*Type: SID new For: Approval  
 Source: CATT, Nokia, Xiaomi, CAICT, China Mobile, China Unicom, ZTE, Deutsche Telekom, Thales, China Telecommunications, Samsung, Sectra Communications*

(Replaces S3-234570)

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

**S3-234573 Discussion on security for PLMN hosting a NPN**

*Type: discussion For: Discussion  
 Source: China Telecommunications*

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

**S3-234574 New SID on security for PLMN hosting a NPN**

*Type: SID new For: Approval  
 Source: China Telecommunications, CableLabs, ZTE, CATT, China Unicom, Apple, China Mobile, Oppo, Lenovo*

**Discussion:**

Samsung: this is considering the core network?

CableLabs: we are not considering the radio network.

MITRE: PLMN may be a threat to the private network as well. It should be looked at.

ORANGE: I don’t understand the justification and whether there are other WGs involved.

**Decision:** The document was **revised to S3-235087**.

**S3-235087 New SID on security for PLMN hosting a NPN**

*Type: SID new For: Approval  
 Source: China Telecommunications, CableLabs, ZTE, CATT, China Unicom, Apple, China Mobile, Oppo, Lenovo*

(Replaces S3-234574)

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

**S3-234663 Discussion on Security Aspects on Ambient IoT Service**

*Type: discussion For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-234671 New WID on MASSS security**

*Type: SID new For: Discussion  
 Source: Apple*

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

**S3-234677 New SID on Security Aspects of Indirect Network Sharing**

*Type: SID new For: Approval  
 Source: China Unicom*

**Discussion:**

Ericsson: let SA2 the work and they will contact us if there is any help from SA3 needed.

MITRE: is there any rush to address this? It is being addressed there as TEI19 work.

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

**S3-234695 New SID on Study on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 3**

*Type: SID new For: Approval  
 Source: CATT*

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

**S3-234697 Discussion on security for LTM**

*Type: discussion For: Discussion  
 Source: OPPO*

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

**S3-234763 New\_SID\_EdgeComputing**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-234765 Dummy WID for Authentication result removal**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-234791 Discussion on security for XR**

*Type: discussion For: Discussion  
 Source: China Mobile*

(Replaces S3-234743)

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

**S3-234802 New SID on the security support for the Next Generation Real Time Communication services Phase 2**

*Type: SID new For: Agreement  
 Source: Ericsson*

**Discussion:**

CabkeLabs: the first objective is not needed if we read the justification.

Huawei: we prefer the CMCC version.

MITRE: confused with the justification and objectives. Are we starting IMS 3rd party security from scratch? Ericsson agreed to change the justification to clarify that it wouldn’t be needed.

Nokia preferred Ericsson's version with an update on the justification.

**Decision:** The document was **revised to S3-235085**.

**S3-235085 New SID on the security support for the Next Generation Real Time Communication services Phase 2**

*Type: SID new For: Agreement  
 Source: Ericsson*

(Replaces S3-234802)

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

**S3-234804 New SID on security for XR services**

*Type: SID new For: Approval  
 Source: China Mobile*

(Replaces S3-234744)

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

**S3-234805 New SID on Study on security aspects of AIML enhancements**

*Type: SID new For: Approval  
 Source: China Mobile, Interdigital, AT&T, Apple, Xiaomi, Oppo, Lenovo, Philips, ZTE*

(Replaces S3-234742)

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

**S3-234806 New SID on security support for next generation real time communication services Phase 2**

*Type: SID new For: Approval  
 Source: China Mobile*

(Replaces S3-234750)

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

**S3-234809 Discussion paper on security aspects of 5G support for Femto (HgNB)**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234810 Study on Security Aspect of Ambient IoT Services in 5G**

*Type: SID new For: Approval  
 Source: OPPO, Cable Labs, Apple, ZTE, Xiaomi, Verizon, Intel, T-Mobile USA, Philips International B.V., China Telecom, Lenovo, Xidian, BUPT, Vivo, China Unicom, Inter Digital, KPN, Huawei, HiSilicon, CATR, CATT, Samsung, China Mobile*

**Discussion:**

Huawei: SA3 is caught in negotiations between other WGs and it is creating a heavy burden for us.

The Chair commented that approving all SIDs and WIDs by March would delay the work in SA3, that's why it was being prioritised to have WIDs and SIDs that were approved already in other WGs.

NTT-Docomo: the TU may not be accurate; in case that there are massive changes in architecture in SA2 it would cause an increase of the work in SA3. Make it clear in SA the kind of impact we may have.

Huawei: this is a good example where SA3 wouldn’t want to be the bottleneck. We need to send the message to Plenary.

Qualcomm: we can start doing this now. MITRE supported Qualcomm.

NTT-Docomo: reserve an agenda item for next meeting to discuss this stuff.

Huawei asked to be minuted: "Huawei has concerns on postponing these studies which in our view will require considerable work. Based on the current schedule, by postponing the agreement on the topic we are delaying the work by half a year. "

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

**S3-235088 Study on Security Aspect of Ambient IoT Services in 5G**

*Type: SID new For: Approval  
 Source: OPPO, Cable Labs, Apple, ZTE, Xiaomi, Verizon, Intel, T-Mobile USA, Philips International B.V., China Telecom, Lenovo, Xidian, BUPT, Vivo, China Unicom, Inter Digital, KPN, Huawei, HiSilicon, CATR, CATT, Samsung, China Mobile*

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

**S3-234834 Discussion on study for security aspects of 5G Mobile Metaverse**

*Type: discussion For: Discussion  
 Source: Samsung*

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

**S3-234835 New SID on security aspects of 5G Mobile Metaverse services**

*Type: SID new For: Approval  
 Source: Samsung, Nokia, Nokia Shanghai Bell, Lenovo, OPPO*

**Discussion:**

Interdigital: remove WT1 as there is overlapping work in SA2.

NTT-Docomo: the TU estimation is not achievable, this is massive work.

Huawei: objectives related to SA6 are not clear.

Philips: we agree that this requires much more work than predicted in the TU here.

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

**S3-235086 New SID on security aspects of 5G Mobile Metaverse services**

*Type: SID new For: Approval  
 Source: Samsung, Nokia, Nokia Shanghai Bell, Lenovo, OPPO*

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

**S3-234860 New SID on 5GS enhancements for Energy Saving**

*Type: SID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell, Telecom Italia, OPPO*

**Discussion:**

Huawei: we did a study on the user consent already. We don’t understand the relation here.

Google: we don’t know at this point whether user consent will be an issue, we want to keep it here.

AT&T: we addressed user consent for the network, we don’t need to include it here.

NTT-Docomo: no urgency for this WID.

NTT-Docomo: user consent is a potential solution. We don’t want to exclude it.

Huawei: user consent is part of the privacy. It is in scope because it's part of the privacy. If the solution requires user consent there is nothing in the WID that prevents from writing that in the spec.

Google: user consent is not excluded, it needs to be evaluated. This was agreed to have it minuted as proposed by Google.

Ericsson: the first three objectives are not clear. What is the difference between them?

**Decision:** The document was **revised to S3-235084**.

**S3-235084 New SID on 5GS enhancements for Energy Saving**

*Type: SID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell, Telecom Italia, OPPO*

(Replaces S3-234860)

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

**S3-234914 New SID on security aspects of Integrated Sensing and Communication**

*Type: SID new For: Approval  
 Source: Xiaomi, OPPO, China Telecom, Apple, ZTE, Lenovo, vivo, Cable Labs, Huawei, HiSilicon, Intel*

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

**S3-234946 New WID on mission critical security enhancements for release 19**

*Type: WID new For: Agreement  
 Source: Motorola Solutions Germany*

(Replaces S3-234406)

**Abstract:**

New WID on mission critical security release 19

**Decision:** The document was **revised to S3-235057**.

**S3-235057 New WID on mission critical security enhancements for release 19**

*Type: WID new For: Agreement  
 Source: Motorola Solutions Germany*

(Replaces S3-234946)

**Discussion:**

Adding Nokia and Samsung.

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

## 7 CVD and research

**S3-234464 CVD-2023-0075 - Certificate validation on IMS access interface**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

**Discussion:**

Postponed to bring a CR to address this LS.

GSMA commented that there was an effort to involve researchers in the standardization work, and there may be a feeling that 3GPP is not interested in addressing these issues. Alex asked the SA3 delegates to take these CVDs seriously and address them properly.

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

**S3-234465 Invalid Curve Attack on the 5G SUCI Privacy**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

**Discussion:**

Addressed in SCAS already.

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

**S3-234466 CVD-2023-0069 - 5G Core Network Attacks**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

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

**S3-234607 reply to GSMA CVD (5G Core Network Attacks)**

*Type: LS out For: Approval  
 to GSMA CVD, cc CT4  
 Source: Huawei, HiSilicon*

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

**S3-234869 LS-reply to CVD-2023-0069 - 5G Core Network Attacks**

*Type: LS out For: Approval  
 to GSMA FASG CVD, CT4  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234608 Clarification on SBI service request procedures**

*Type: CR For: Agreement  
 33.501 v17.11.0 CR-1818 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Nokia had an alternate proposal in 4871.

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

**S3-234609 Clarification on SBI service request procedures**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1819 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-234870 CVD-0069 Cross check on NF discovery request**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1890 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234871 CVD-0069 Condition of including allowed sNSSAIs in access token**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1891 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-234872 CVD-0069 Access token validity time**

*Type: CR For: Agreement  
 33.501 v18.3.0 CR-1892 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

## 8 Any Other Business

Elections for vice chair positions were held during this meeting.

The first position was held between two candidates: Alf Zugenmaier (NTT-Docomo) and Mike (T-Mobile). The other three withdrew to let one oerator occupty the first position.

First ballot 1st vice chair results:

Alf Zugenmaier (NTT-Docomo): 94% of the votes.

Mike (T-Mobile):

Although quorum was not reached, Mike decided to withdraw so the first vice chair position was given to Alf.

For the second vice chair position the results were the following:

As a result of this Alec withdrew from the election and a second ballot was held for the remaining candidates: Marcus (OPPO) and Vlasios (Ericsson).

The second ballot was held and quorum was not reached. Due to the results Vlasios decided to step down and Marcus Wong (OPPO) was declared vice chair by acclamation.

This was Anand (Qualcomm)'s last time in SA3. He was given a pair of personalised Crocs among other gifts and was thanked for his great contribution to the work throughout all these years in 3GPP.

This was also the last meeting of James (NCSC). He wa thanked for his work in the last 4 years.

This was also the last meeting for Christine (Ericsson). She was given a deserved applause from the delegates.

The Chair thaned the delegates and MCC for the hard work during the week. The new vice chairs were congratulated for their election once again. After this, the meeting was closed.

**S3-234404 SA3 meeting calendar**

*Type: other For: (not specified)  
 Source: SA WG3 Chair*

**Discussion:**

Proposed to have an adhoc meeting with decision power on SCAS in January. SCAS will still be in the agenda in the Athens meeting.

It was agreed to have the Adhoc meeting on SCAS for 22 - 26 January 2024.

Possibility of adhoc in June or July?

OPPO: have a f2f meeting in April Key issues are very hard to discuss electronically. NTT-Docomo supported that.

Nokia: emeeting in April for us. We can learn from experience and be more efficient.

Thales: we have learnt that emeetings don’t work. F2f meetings can be hybrid.

Interdigital: emeetings don’t work at all in some areas.F2F is the best way for making progress.

The Chair commented that he got feedback from other companies asking for not having more f2f meetings.

AT&T: make it an online wokrshop or whatever necessary to make progress.

Philips supported the emeeting for April.

The Chair noted the feedback.

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

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-234400 | Agenda | SA WG3 Chair | approved | - | - |
| S3-234401 | Report from SA3#112 | MCC | revised | - | S3-234986 |
| S3-234402 | Process for SA3#113 | SA WG3 Chair | noted | - | - |
| S3-234403 | Detail agenda planning for SA3#113 | SA WG3 Chair | revised | - | S3-234985 |
| S3-234404 | SA3 meeting calendar | SA WG3 Chair | noted | - | - |
| S3-234405 | Report to SA3 from SA | SA WG3 Chair | noted | - | - |
| S3-234406 | New WID on mission critical security enhancements for release 19 | Motorola Solutions Germany | revised | - | S3-234946 |
| S3-234407 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | revised | - | S3-234408 |
| S3-234408 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | withdrawn | S3-234407 | - |
| S3-234409 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | withdrawn | - | - |
| S3-234410 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | withdrawn | - | - |
| S3-234411 | Clarification on SCAS Modal Text | T-Mobile USA Inc., Deutsche Telekom, ZTE Corporation, BSI, Nokia, Ericson, Huawei, Telus, MITRE Corporation | agreed | - | - |
| S3-234412 | Clarification on SCAS Definitions and abbreviations | T-Mobile USA Inc.T-Mobile US, Deutsche Telekom, ZTE Corporation, BSI, Nokia, Ericson, Huawei, Telus, MITRE Corporation | revised | - | S3-235108 |
| S3-234413 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | revised | - | S3-234982 |
| S3-234414 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | revised | - | S3-234983 |
| S3-234415 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | revised | - | S3-234984 |
| S3-234416 | Discussions for Rel-19 Study on enablers for ZTS | Lenovo, Motorola Mobility | noted | S3ah-230011 | - |
| S3-234417 | New SID on enablers for Zero Trust Security | Lenovo, Motorola Mobility, MITRE, Interdigital, Motorola Solutions, Charter Communications, Johns Hopkins University APL, Intel, US National Security Agency, Telefonica, NCSC, OTD\_US, Deutsche Telekom, Keysight Technologies, Center for Internet Security, | revised | S3ah-230012 | S3-235089 |
| S3-234418 | Rel-19 eZTS Proposal\_Oflline Call Minutes | Lenovo, Motorola Mobility | noted | - | - |
| S3-234419 | Correction in trusted non-3GPP access authentication | Lenovo | not pursued | - | - |
| S3-234420 | Discussion on UPU Header Security | Lenovo | noted | - | - |
| S3-234421 | UPU Header Security | Lenovo | not pursued | - | - |
| S3-234422 | Evidence correction for 33.117 | Huawei, HiSilicon, Deutsche Telecom, T-mobile, ZTE, Nokia, Ericsson, China Mobile, Federal Office for Information Security (BSI), TELUS, MITRE | agreed | - | - |
| S3-234423 | Clarification of Test Cases in TS 33.117 | Deutsche Telekom AG, T-Mobile US, Telecom Italia Mobile, Telus,China Mobile,Ericsson, Huawei, Nokia, ZTE, BSI (Germany), MITRE Corporation | endorsed | - | - |
| S3-234424 | Introduction of the Snow 5G 256-bits algorithm specification | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234425 | Introduction of the Snow 5G 256-bits implementers’ test data | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234426 | Introduction of the Snow 5G 256-bits design conformance test data | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234427 | Introduction of the AES 256-bits algorithm specification | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234428 | Introduction of the AES 256-bits implementers’ test data | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234429 | Introduction of the AES 256-bits design conformance test data | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234430 | Introduction of the ZUC based 256-bits algorithm specification | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234431 | Introduction of the ZUC 256-bits implementers’ test data | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234432 | Introduction of the ZUC 256-bits design conformance test data | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234433 | Evaluation of different options of security for selective SCG Activation. | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234434 | Security for Selective SCG Activation | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234435 | Basic Editorial Updates to TS 33.117 | ZTE Corporation, Deutsche Telekom, T-Mobile USA, BSI, Huawei, Nokia, Ericsson, Telus, MITRE Corporation | agreed | - | - |
| S3-234436 | Inconsistent use of terms | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-234437 | Reply LS on Security Solution for Selective SCG | Nokia, Nokia Shanghai Bell | revised | - | S3-235051 |
| S3-234438 | Specification mismatch is leading to inconsistent certification result | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234439 | Disclaimer for Indirect Communication | Nokia, Nokia Shanghai Bell | revised | - | S3-235050 |
| S3-234440 | N32 Race conditions and recovery | GSMA | noted | - | - |
| S3-234441 | LS reply to S3-233786 and S3-234296 on the introduction of the domain ""ipxnetwork.org"" and clarifications of the Outsourced SEPP and Hosted SEPP deployment scenarios | GSMA | postponed | - | - |
| S3-234442 | N32-f Lifetime and Reconnection | GSMA | noted | - | - |
| S3-234443 | N32-f N32-c correlation | GSMA | noted | - | - |
| S3-234444 | LS on Educational paper on N32 connection establishment for bilateral TLS | GSMA | replied to | - | - |
| S3-234445 | LS on Handling of SOR counter and the UE parameter update counter if stored in NVM | C1-232696 | replied to | - | - |
| S3-234446 | Reply LS on UPU enhancement | C1-235532 | noted | - | - |
| S3-234447 | Reply LS on Mitigation of Downgrade attacks | C1-236517 | replied to | - | - |
| S3-234448 | LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE | C1-236521 | replied to | - | - |
| S3-234449 | LS on procedures for UE discovery for Ranging\_SL | C1-236527 | noted | - | - |
| S3-234450 | LS on LPP message and supplementary service event report over a user plane connection between UE and LMF | C1-236562 | noted | - | - |
| S3-234451 | LS on Trigger for secure user plane establishment via user plane | C1-237891 | noted | - | - |
| S3-234452 | LS on 5G ProSe UE-to-UE relay discovery with security aspects | C1-237897 | noted | - | - |
| S3-234453 | LS on Retrieving keys for decryption of protected IEs for U2N relay | C1-234362 | replied to | - | - |
| S3-234454 | LS on security for 5G ProSe UE-to-network relay discovery | C1-237900 | replied to | - | - |
| S3-234455 | LS on key and security materials used for Ranging\_SL | C1-237928 | replied to | - | - |
| S3-234456 | LS on supporting resource owner-aware northbound API access | C3-234640 | replied to | - | - |
| S3-234457 | LS on AKMA service restrictions in Rel-17 | C3-232563 | postponed | - | - |
| S3-234458 | IETF HTTP RFCs obsoleted by RFCs 9110, 9111 and 9113 | C4-233513 | noted | - | - |
| S3-234459 | Reply LS on Authorization of NF service consumers for data access via DCCF | C4-233596 | noted | - | - |
| S3-234460 | Reply LS on N32 Race conditions and recovery | C4-234663 | withdrawn | - | - |
| S3-234461 | LS on modifications for PRINS middle box | C4-234666 | noted | - | - |
| S3-234462 | LS on Authentication Result Removal | C4-224418 | replied to | - | - |
| S3-234463 | LS on Removal of the uavAuthenticated IE from Create SM Context Request | C4-230790 | postponed | - | - |
| S3-234464 | CVD-2023-0075 - Certificate validation on IMS access interface | GSMA | postponed | - | - |
| S3-234465 | Invalid Curve Attack on the 5G SUCI Privacy | GSMA | noted | - | - |
| S3-234466 | CVD-2023-0069 - 5G Core Network Attacks | GSMA | postponed | - | - |
| S3-234467 | LS to 3GPP re Monitoring of Encrypted 5GS Signalling Traffic | GSMA | replied to | - | - |
| S3-234468 | LS on a Framework for Network Slices in Networks Built from IETF Technologies Submission | IETF | noted | - | - |
| S3-234469 | LS on user consent for SON/MDT for NB-IoT UEs | R2-2309030 | replied to | - | - |
| S3-234470 | Reply LS to SA2 on Sidelink positioning procedure | R2-2309119 | noted | - | - |
| S3-234471 | Reply LS on security for selective SCG activation | R2-2309268 | replied to | - | - |
| S3-234472 | Reply LS on QMC support in RRC\_IDLE and RRC\_INACTIVE | R2-2311409 | noted | - | - |
| S3-234473 | LS on Reporting of Relay UE C-RNTI and NCGI | R2- 2306693 | replied to | - | - |
| S3-234474 | Reply LS on DTLS for SCTP next steps and request for input | R3-234497 | noted | - | - |
| S3-234475 | LS on QMC support in RRC\_IDLE and RRC\_INACTIVE | R3-234745 | replied to | - | - |
| S3-234476 | LS on Roaming Hub Requirements | S1-232654 | noted | - | - |
| S3-234477 | DNS over TLS (DoT) and DNS over HTTPS (DoH) | S2-2306210 | replied to | - | - |
| S3-234478 | Reply LS on Clarification on Removal of the Indicator of UUAA result from AMF | S2-2309697 | postponed | - | - |
| S3-234479 | Clarification related to reliable location | S2-2309698 | postponed | - | - |
| S3-234480 | Reply LS on LS on UE Ranging/SL Positioning privacy profile | S2-2309830 | noted | - | - |
| S3-234481 | Reply LS on Reply LS on security aspects for Ranging/Sidelink Positioning | S2-2310025 | replied to | - | - |
| S3-234482 | Reply LS on procedures for UE discovery for Ranging\_SL | S2-2311767 | replied to | - | - |
| S3-234483 | LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE | S2-2311800 | replied to | - | - |
| S3-234484 | LS on the progress of 5WWC\_Ph2 normative work | S2-2311801 | noted | - | - |
| S3-234485 | Reply LS on NSWO support in SNPN using CH AAA server | S2-2311815 | replied to | - | - |
| S3-234486 | LS on MSISDN exposure to trusted AF | S2-2311893 | postponed | - | - |
| S3-234487 | Reply LS on ProSe Secondary Authentication | S2-2307743 | noted | - | - |
| S3-234488 | Non-Support of Ciphering Algorithm GEA2 | GCF | postponed | - | - |
| S3-234489 | LS on LI for AKMA in roaming | s3i230421 | replied to | - | - |
| S3-234490 | Reply LS on Security Context Transfer between MBSF and MBSTF | S4-231485 | noted | - | - |
| S3-234491 | Reply to LS on 3GPP work on energy efficiency | S5-235778 | noted | - | - |
| S3-234492 | Reply LS on user consent of Non-public Network | S5-236928 | noted | - | - |
| S3-234493 | Security for AI ML management capabilities | S5-234776 | replied to | - | - |
| S3-234494 | LS reply on Support of multiple UEs in Northbound APIs | S6-233104 | noted | - | - |
| S3-234495 | LS on developing a security solution for PINAPP architecture | S6-233112 | replied to | - | - |
| S3-234496 | LS to SA, SA3 and SA5 on potential collaboration between 3GPP SA3/SA5 and ETSI SAI ISG | ETSI ISG SAI | replied to | - | - |
| S3-234497 | LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond | ITU-T | replied to | - | - |
| S3-234498 | LS on work progress on X.1818 (ex. X.5Gsec-ctrl) “Security controls for operation and maintenance of IMT-2020/5G network systems” | ITU-T | noted | - | - |
| S3-234499 | LSOut Reply to 3GPP Reply LS on Authenticated Vulnerability Testing | ETSI ISG NFV | replied to | - | - |
| S3-234500 | Reply LS on Roaming Hubs | SP-231203 | noted | - | - |
| S3-234501 | [33.180] Clarification on SIP core access authentication | UK Home Office | agreed | S3-233591 | - |
| S3-234502 | Study of ACME for Automated Certificate Management in SBA | Cisco Systems, Google, Mavenir, CableLabs, Charter Communications, AT&T, Microsoft, TELUS, DISH Network, Deutsche Telekom, Johns Hopkins University APL | revised | - | S3-235090 |
| S3-234503 | Modified PRINS for roaming service providers in 5G | Verizon UK Ltd | agreed | SP-231190 | - |
| S3-234504 | Discussion on the Study on enabling 256-bits cryptographic algorithms | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234505 | Study on Alternative Authentication without Access to a Centralized 5G Core | US Department of Homeland Security, The MITRE Corporation, Dell Technologies, AT&T, Apple, InterDigital, Cable Labs, Keysight Technologies | noted | - | - |
| S3-234506 | DRAFT Reply LS on potential collaboration between 3GPP SA3 and ETSI | InterDigital Communications | revised | - | S3-235007 |
| S3-234507 | TCG progress - report from TCG rapporteur | InterDigital Communications | noted | - | - |
| S3-234508 | New SID on security aspects of Usage of User Identifiers in the 5G System | InterDigital Finland Oy | not treated | - | - |
| S3-234509 | Security of 5G ProSe PC5 Communication – clarification | Philips International B.V. | revised | - | S3-235066 |
| S3-234510 | UTC-based Counter Reconciliation | Philips International B.V. | not pursued | - | - |
| S3-234511 | Key identification for decryption of protected IEs for UE-to-Network Relay | Philips International B.V. | not pursued | - | - |
| S3-234512 | 4.1.3 - Clause 6.1.3.3 - Clarification DDS | Philips International B.V. | revised | - | S3-235056 |
| S3-234513 | 4.1.12 - Clause 6.4.4 - clarification | Philips International B.V. | not pursued | - | - |
| S3-234514 | Additions to enable secure network based SL positioning for UE without NAS connection | Philips International B.V. | not pursued | - | - |
| S3-234515 | Addition of Ranging/SL Positioning privacy profile | Philips International B.V. | not pursued | - | - |
| S3-234516 | Clarification to 6.3.7 on discovery | Philips International B.V. | not pursued | - | - |
| S3-234517 | New SID on study on enabling a cryptographic algorithm transition to 256 bits | KDDI Corporation | revised | - | S3-235091 |
| S3-234518 | Discussion paper on transition to 256-bit cryptographic algorithms | KDDI Corporation | noted | - | - |
| S3-234519 | SCAS AUSF - Serving network management | Keysight Technologies UK Ltd | not pursued | - | - |
| S3-234520 | Reply LS on Retrieving keys for decryption of protected IEs for U2N relay | InterDigital Finland Oy | merged | - | S3-235098 |
| S3-234521 | Retrieving keys for decryption of protected IEs in DCR for U2N relay | Interdigital | not pursued | - | - |
| S3-234522 | Retrieving keys for decryption of protected IEs in DCR for U2N relay | Interdigital | not pursued | - | - |
| S3-234523 | Correction in UDM and GPSI related requirements | Nokia, Nokia Shanghai Bell | revised | - | S3-235014 |
| S3-234524 | Correction in UDM and GPSI related requirements | Nokia, Nokia Shanghai Bell | revised | - | S3-235015 |
| S3-234525 | A-KID privacy related requirments | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234526 | A-KID privacy related requirments | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234527 | Editorial alignment | Nokia, Nokia Shanghai Bell | revised | - | S3-235016 |
| S3-234528 | Editorial alignment | Nokia, Nokia Shanghai Bell | revised | - | S3-235017 |
| S3-234529 | Discussion paper on AKMA service restriction in VPLMN | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234530 | AKMA service restriction in VPLMN | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234531 | LS reply on AKMA service restrictions in Rel-17 | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234532 | AKMA Service disable or withdrawn | Nokia, Nokia Shanghai Bell, ZTE, ChinaMobile | not pursued | - | - |
| S3-234533 | New mini WID on AKMA service disabling | Nokia, Nokia Shanghai Bell, ZTE, ChinaMobile | noted | - | - |
| S3-234534 | Callback URI clarification and API correction | Nokia, Nokia Shanghai Bell | merged | - | S3-235040 |
| S3-234535 | Reply LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234536 | Removing GUTI from Registration Reject | Nokia, Nokia Shanghai Bell | revised | - | S3-235045 |
| S3-234537 | NULL encryption clarification | Nokia, Nokia Shanghai Bell | revised | - | S3-235046 |
| S3-234538 | N3IWF procedure clarification | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234539 | N3IWF procedure clarification | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234540 | N3IWF procedure clarification | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234541 | N3IWF procedure clarification | Nokia, Nokia Shanghai Bell | revised | - | S3-235082 |
| S3-234542 | Discussion paper on security aspect of NF accessing the external AF services | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234543 | Framework for NF accessing the external AF data | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234544 | Framework for NF accessing the external AF data | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234545 | SOR UPU NVM issue | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234546 | Discussion on AKMA privacy issue | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234547 | Reply LS on Clarification related to reliable location | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234548 | Discussion paper of UPU implementation gaps | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234549 | Enhancement in UPU procedure to protect UPU header | Nokia, Nokia Shanghai Bell | merged | - | S3-235047 |
| S3-234550 | Updates to the SBA certificate profile | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234551 | Discussion paper on automated additions of root CAs certificates using CMP | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234552 | Automated additions of root CAs certificates using CMP | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234553 | Conveying the CCA of the source NF service consumer | Nokia, Nokia Shanghai Bell, Ericsson | revised | - | S3-235035 |
| S3-234554 | Adding service area for authorization in FL | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234555 | Removing EN in X.10 clause of TS 33.501 related to allowed NF consumers list | Nokia, Nokia Shanghai Bell | revised | - | S3-235036 |
| S3-234556 | Discussion paper on data control by roaming hubs with modified PRINS | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234557 | LS on data control by Roaming Hubs with PRINS | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234558 | Discussion paper on certificate bound access token in SBA OAuth framework | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234559 | New SID on security aspects for Multi-Access | Nokia, Nokia Shanghai Bell, ZTE Corporation, China Telecom, OPPO, China Unicom, CATT, CableLabs, Lenovo | not treated | - | - |
| S3-234560 | Conveying the CCA of the source NF service consumer | Nokia, Nokia Shanghai Bell, Ericsson | revised | - | S3-235034 |
| S3-234561 | Guidance on mitigating privacy risk of variable length NAI-based SUPIs | InterDigital Communications, Nokia | revised | - | S3-234854 |
| S3-234562 | Adding conclusions for KI#2.6 | InterDigital, Inc. | withdrawn | - | - |
| S3-234563 | New SID on security enhancement for mobility over non-3GPP access to avoid full primary authentication | Nokia, Nokia Shanghai Bell, CableLabs, Charter Communications, Broadcom, Lenovo, Xiaomi, ChinaMobile, Google, ZTE, Apple Keysight Technologies, LGE, Rogers Communications, Philips International B.V., IIT Delhi, Intel Corporation (UK) Ltd | revised | - | S3-235105 |
| S3-234564 | DRAFT LS Reply on developing a security solution for PINAPP architecture | InterDigital Communications | revised | - | S3-235074 |
| S3-234565 | Discussion Paper on PINAPP Security Approach | InterDigital Communications | noted | - | - |
| S3-234566 | Rel-18 Work Item Exception for FS\_PIN\_Sec | InterDigital Communications | noted | - | - |
| S3-234567 | Discussion on R19 priorities | MITRE Corporation | withdrawn | - | - |
| S3-234568 | 5G PQC Planning and Threats | U.S. National Security Agency | noted | - | - |
| S3-234569 | NIST Post Quantum Cryptography Update | NIST | noted | - | - |
| S3-234570 | Study on Security Aspects of 5G Satellite Access Phase 2 | CATT, Nokia, Xiaomi, CAICT, China Mobile, China Unicom, ZTE, Deutsche Telekom, Thales, China Telecommunications, Samsung, Sectra Communications | revised | - | S3-235103 |
| S3-234571 | NSWO support in SNPN using CH with AAA server | CableLabs, Charter Communications | revised | S3-234290 | S3-235077 |
| S3-234572 | Reply LS on NSWO support in SNPN using CH AAA server | CableLabs | revised | - | S3-235109 |
| S3-234573 | Discussion on security for PLMN hosting a NPN | China Telecommunications | noted | - | - |
| S3-234574 | New SID on security for PLMN hosting a NPN | China Telecommunications, CableLabs, ZTE, CATT, China Unicom, Apple, China Mobile, Oppo, Lenovo | revised | - | S3-235087 |
| S3-234575 | Replace reference to IETF draft-emu-eap-tls13 in annex B with RFC 9190 | CableLabs | revised | - | S3-235042 |
| S3-234576 | Discussion paper supporting Rel-19 study on enablers for Zero Trust Security | Johns Hopkins University APL | noted | - | - |
| S3-234577 | AUSF sends back MSK to W-AGF after successful EAP authentication | CableLabs | revised | - | S3-235048 |
| S3-234578 | New SID on application login via IMS | China Telecom Corporation Ltd. | noted | - | - |
| S3-234579 | Discussion paper on application login via IMS | China Telecom Corporation Ltd. | noted | - | - |
| S3-234580 | Allocate FC Value for 33.533 | ZTE | agreed | - | - |
| S3-234581 | Update the FC Value in 33.533 | ZTE | agreed | - | - |
| S3-234582 | Remove the Note in clause 6.3.5 | ZTE | not pursued | - | - |
| S3-234583 | Resolve the issue when SLPTK ID is about to wrap around | ZTE | revised | - | S3-235079 |
| S3-234584 | Update the abbreviations in 33.533 | ZTE | revised | - | S3-235026 |
| S3-234585 | Remove the EN on I.10.3.1 | ZTE | merged | - | S3-235083 |
| S3-234586 | Remove the 5G-GUTI in the Registration Reject message in clause 7.2.1 and 7A.2.1 | ZTE | merged | - | S3-235045 |
| S3-234587 | Update the clause 6.6.3.3 in 33.503 | ZTE | merged | - | S3-235010 |
| S3-234588 | Discussion on the AKMA context removal and A-KID update after UPU | ZTE Corporation | withdrawn | - | - |
| S3-234589 | A-KID update after UPU | ZTE | not pursued | - | - |
| S3-234590 | Adding SUPI/GPSI as an option in KAF request message | ZTE Corporation | not pursued | - | - |
| S3-234591 | Editorial corrections to TS 33.535 in R17 | ZTE Corporation | revised | - | S3-235080 |
| S3-234592 | Editorial corrections to TS 33.535 in R18 | ZTE Corporation | revised | - | S3-235081 |
| S3-234593 | Update AKMA key lifetimes | ZTE Corporation | not pursued | - | - |
| S3-234594 | Update AKMA related UDM services | ZTE Corporation | agreed | - | - |
| S3-234595 | Adding indication to inform UE of A-KID refresh | ZTE Corporation | not pursued | - | - |
| S3-234596 | Reuse error code during home network triggered primary authentication procedure | ZTE | revised | - | S3-235038 |
| S3-234597 | Clarify AMF responses in HONTRA procedure. | ZTE Corporation | not pursued | - | - |
| S3-234598 | HONTRA procedure corrections | ZTE Corporation | merged | - | S3-235040 |
| S3-234599 | Dummy WID for R18 eNS | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, Xiaomi, ZTE | noted | - | - |
| S3-234600 | Home control for Network Slice Admission Control procedures | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, Xiaomi, ZTE | not pursued | - | - |
| S3-234601 | Discussions for R19 security enhancement of network slicing | Huawei, HiSilicon | noted | - | - |
| S3-234602 | R19 SID on security enhancement of network slicng | Huawei, HiSilicon | noted | - | - |
| S3-234603 | Discussions for R19 UAS security | Huawei, HiSilicon | noted | - | - |
| S3-234604 | R19 SID on UAS security enhancement | Huawei, HiSilicon | noted | - | - |
| S3-234605 | NSSAA procedure update for multiple registration | Huawei, HiSilicon | not pursued | - | - |
| S3-234606 | Direct C2 security for unicast | Huawei, HiSilicon | not pursued | - | - |
| S3-234607 | reply to GSMA CVD (5G Core Network Attacks) | Huawei, HiSilicon | noted | - | - |
| S3-234608 | Clarification on SBI service request procedures | Huawei, HiSilicon | not pursued | - | - |
| S3-234609 | Clarification on SBI service request procedures | Huawei, HiSilicon | not pursued | - | - |
| S3-234610 | reply to CT4 on removal of uavAuthenticated IE | Huawei, HiSilicon | noted | - | - |
| S3-234611 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | not pursued | - | - |
| S3-234612 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | not pursued | - | - |
| S3-234613 | LS-reply to CT3 on SNAAPPY | Huawei, HiSilicon | revised | - | S3-235003 |
| S3-234614 | Updating intermediary originated error message procedure | NTT DOCOMO | revised | - | S3-234973 |
| S3-234615 | Defining Roaming Hub | NTT DOCOMO, Vodafone | not pursued | - | - |
| S3-234616 | Revocation procedures invoked by API invoker | Huawei, HiSilicon | not pursued | - | - |
| S3-234617 | Revocation procedure invoked by resource owner client | Huawei, HiSilicon | not pursued | - | - |
| S3-234618 | Correction on authentication and authorization for RNAA | Huawei, HiSilicon | revised | - | S3-235113 |
| S3-234619 | Security negotiation for RNAA | Huawei, HiSilicon | merged | - | S3-235114 |
| S3-234620 | Access token profile for RNAA | Huawei, HiSilicon | revised | - | S3-235115 |
| S3-234621 | Obtaining Tokens Procedure for RNAA | Huawei, HiSilicon | merged | - | S3-235115 |
| S3-234622 | Refreshing Token for RNAA | Huawei, HiSilicon | merged | - | S3-235115 |
| S3-234623 | Discussion on Mitigations on Bidding Down Attack | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234624 | New study proposal on Mitigations on Bidding Down Attack | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | revised | - | S3-235096 |
| S3-234625 | Correction on protection of data and analytics exchange in roaming case | Huawei, HiSilicon | agreed | - | - |
| S3-234626 | Discussion on security issue for NSWO | Huawei, HiSilicon | noted | - | - |
| S3-234627 | Security for NSWO support in SNPN | Huawei, HiSilicon | not pursued | - | - |
| S3-234628 | Reply LS on Clarification related to reliable location | Huawei, HiSilicon | noted | - | - |
| S3-234629 | Clarification related to reliable location | Huawei, HiSilicon | not pursued | - | - |
| S3-234630 | Clarification related to reliable location | Huawei, HiSilicon | not pursued | - | - |
| S3-234631 | Clarification on the authorization procedure of AF or 5GC NF | Huawei, HiSilicon | not pursued | - | - |
| S3-234632 | Location\_PrivacyCheck service from AMF | Huawei, HiSilicon | not pursued | - | - |
| S3-234633 | Location\_PrivacyCheck service from GMLC for UEs belonging to different PLMNs | Huawei, HiSilicon | not pursued | - | - |
| S3-234634 | Discussion on NEF–AF Exposure Security Enhancement | Huawei, HiSilicon | noted | - | - |
| S3-234635 | New SID on 5G Security Enhancement for NEF | Huawei, HiSilicon | noted | - | - |
| S3-234636 | Reply LS on security aspects for Ranging/Sidelink Positioning | Huawei, HiSilicon | merged | - | S3-235078 |
| S3-234637 | Clarification about the NOTE in MOCN | Huawei, HiSilicon | not pursued | - | - |
| S3-234638 | withdrawn | Huawei, HiSilicon | withdrawn | - | - |
| S3-234639 | Update to Set up of initial trust | Huawei, HiSilicon | agreed | - | - |
| S3-234640 | Update to Validation of usage of X.509 certificate | Huawei, HiSilicon | agreed | - | - |
| S3-234641 | Clairification and editorial changes to clause 6.6.3.3 | Huawei, HiSilicon | merged | - | S3-235010 |
| S3-234642 | Clarification about key derivation in CP procedures and edtiorial changes R17 | Huawei, HiSilicon | agreed | - | - |
| S3-234643 | Clarification about key derivation in CP procedures and edtiorial changes R18 | Huawei, HiSilicon | agreed | - | - |
| S3-234644 | Editorial changes and clarification about identity mapping R17 | Huawei, HiSilicon | agreed | - | - |
| S3-234645 | Editorial changes and clarification about identity mapping R17 | Huawei, HiSilicon | agreed | - | - |
| S3-234646 | Draft LS reply on Reporting of Relay UE C-RNTI and NCGI | Huawei, HiSilicon | revised | - | S3-235005 |
| S3-234647 | Draft LS reply on security for selective SCG activation | Huawei, HiSilicon | noted | - | - |
| S3-234648 | draftCR on Securtiy of Selective SCG Activation | Huawei, HiSilicon, Qualcomm Incorporated, Ericsson, Nokia, Nokia Shanghai Bell, Samsung | merged | - | S3-235100 |
| S3-234649 | Update on the procedures of Security of Selective SCG Activation | Huawei, HiSilicon | noted | - | - |
| S3-234650 | Update the abbreviation list to include CPA and CPC R17 | Huawei, HiSilicon | agreed | - | - |
| S3-234651 | Update the abbreviation list to include CPA and CPC R18 | Huawei, HiSilicon | agreed | - | - |
| S3-234652 | CR to update certificate lifecycle management | Huawei, HiSilicon | not pursued | - | - |
| S3-234653 | Delete Editor's Note in trusted non-3GPP access | Huawei, HiSilicon | not pursued | - | - |
| S3-234654 | Update step 8 in AUN3 devices supporting 5G key hierarchy procedure | Huawei, HiSilicon | not pursued | - | - |
| S3-234655 | clarification for HONTRA procedure | Huawei, HiSilicon | revised | - | S3-235040 |
| S3-234656 | Draft reply LS on NVM issue | Huawei, HiSilicon | merged | - | S3-235053 |
| S3-234657 | Discussion on key misalignment | Huawei, HiSilicon | noted | - | - |
| S3-234658 | Agenda and notes of conference call on the storage of UPU and SoR counters in NVM | Huawei, HiSilicon | noted | - | - |
| S3-234659 | HTTP RFC obsoleted by IETF RFC 9110 | Huawei, HiSilicon | agreed | - | - |
| S3-234660 | HTTP RFC obsoleted by IETF RFC 9113 | Huawei, HiSilicon | agreed | - | - |
| S3-234661 | HTTP RFCs obsoleted by IETF RFC 9110 | Huawei, HiSilicon | agreed | - | - |
| S3-234662 | HTTP RFC obsoleted by IETF RFC 9113 | Huawei, HiSilicon | agreed | - | - |
| S3-234663 | Discussion on Security Aspects on Ambient IoT Service | Huawei, HiSilicon | noted | - | - |
| S3-234664 | Updates to ML Model Storage and Sharing | Intel Corporation (UK) Ltd | merged | - | S3-235036 |
| S3-234665 | Updates to Federated Learning | Intel | noted | - | - |
| S3-234666 | Updates to Security for Selective SCG Activation | Intel | revised | - | S3-235100 |
| S3-234667 | Remove the 5G-GUTI in the Registration Reject message in clause 7.2.1 and 7A.2.1 | Intel | merged | - | S3-235045 |
| S3-234668 | SERP-revised WID for R19 SERP | Apple | noted | - | - |
| S3-234669 | CR on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203 | Apple | not pursued | - | - |
| S3-234670 | Reply LS on Handling of SOR counter and the UE parameter update counter if stored in NVM | Apple | revised | - | S3-235053 |
| S3-234671 | New WID on MASSS security | Apple | withdrawn | - | - |
| S3-234672 | SERP-Discussion paper on SERP feature summary | Apple | noted | - | - |
| S3-234673 | SERP-LS on security protection on RRCResumeRequest message | Apple | noted | - | - |
| S3-234674 | TS 33.529 Skeleton for Security Assurance Specification for Short Message Service Function (SMSF) | IIT Bombay | agreed | - | - |
| S3-234675 | Scope of Security Assurance Specification for Short Message Service Function (SMSF) | IIT Bombay | approved | - | - |
| S3-234676 | References of Security Assurance Specification for Short Message Service Function (SMSF) | IIT Bombay | approved | - | - |
| S3-234677 | New SID on Security Aspects of Indirect Network Sharing | China Unicom | noted | - | - |
| S3-234678 | New SID on Security Enhancements for URSP in Roaming Scenarios | Lenovo, Nokia, Nokia Shanghai Bell, Philips, Intel, Interdigital | noted | - | - |
| S3-234679 | New SID on Double Layer Security Optimization | Lenovo, BROADCOM CORPORATION, CableLabs, CATT, Charter Communications, Inc, China Mobile, CISCO, Deutsche Telekom, InterDigital, Inc., LG Electronics, Nokia, Tencent, vivo Mobile Communication Co., Xiaomi, ZTE Corporation | noted | - | - |
| S3-234680 | Clarification on signalling overload in Home Network Triggered Authentication | LG Electronics | not pursued | - | - |
| S3-234681 | New WID on Milenage-256 algorithm | THALES, Idemia, NIST, ORANGE, Nokia, Telecom Italia | revised | - | S3-235072 |
| S3-234682 | Handling of SoR counter and UE parameter update counter in NVM | THALES | noted | - | - |
| S3-234683 | LS reply on Reporting of Relay UE C-RNTI and NCGI | OPPO | merged | - | S3-235005 |
| S3-234684 | Discussion paper on the DataSetTag | Huawei, HiSilicon | noted | - | - |
| S3-234685 | Procedure for secured and authorized AIML model data sharing | Huawei, HiSilicon | not pursued | - | - |
| S3-234686 | Update Service Area in FL Authorization | Huawei, HiSilicon | not pursued | - | - |
| S3-234687 | Discussion paper on Service Area in FL | Huawei, HiSilicon | noted | - | - |
| S3-234688 | Update clause 6.1.1, 6.6.1, 6.6.3.3 and 6.6.4.1 | OPPO, Xidian | revised | - | S3-235011 |
| S3-234689 | Discussion on the A-KID update after UPU | ZTE Corporation. | noted | - | - |
| S3-234690 | Study on privacy aspects of collection and sharing management data | Nokia, Nokia Shanghai Bell, IIT Delhi, Interdigital, Lenovo, AT&T, CMCC, Apple | noted | - | - |
| S3-234691 | New mini WID on AKMA identifier update | ZTE Corporation. | noted | - | - |
| S3-234692 | LS reply on security for 5G ProSe UE-to-network relay discovery | OPPO | revised | - | S3-234992 |
| S3-234693 | LS reply on SCPAC security | OPPO | noted | - | - |
| S3-234694 | Resolving Editor's Note on N32 and/or SBA layers for Modified PRINS | Vodafone, Verizon, T-Mobile USA, NTT DOCOMO, Telefonica | revised | - | S3-235069 |
| S3-234695 | New SID on Study on Security Aspects of Enhancement for Proximity Based Services in 5GS Phase 3 | CATT | noted | - | - |
| S3-234696 | Security for subsequent CPAC | OPPO | not pursued | - | - |
| S3-234697 | Discussion on security for LTM | OPPO | not treated | - | - |
| S3-234698 | CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 17 | CATT | revised | - | S3-235054 |
| S3-234699 | CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 18 (mirror) | CATT | revised | - | S3-235055 |
| S3-234700 | CR to TS33.503 Correction U2U Relay Communication | CATT | revised | - | S3-235010 |
| S3-234701 | Discussion on protecting header information in UPU | Qualcomm Incorporated | noted | S3-233869 | - |
| S3-234702 | Protection of UPU header | Qualcomm Incorporated | merged | S3-233870 | S3-235047 |
| S3-234703 | Establishing IPsec SAs for IAB inter-CU topology adaptation and backhaul RLF recovery procedure | Qualcomm Incorporated | revised | - | S3-234933 |
| S3-234704 | Establishing IPsec SAs for IAB inter-CU topology adaptation and backhaul RLF recovery procedure | Qualcomm Incorporated | not pursued | - | - |
| S3-234705 | Updating the FC values | Qualcomm Incorporated | revised | - | S3-234936 |
| S3-234706 | Updating the FC values | Qualcomm Incorporated | revised | - | S3-234938 |
| S3-234707 | Clarify the use of UUAA-MM for pairing authorisation | Qualcomm Incorporated | revised | - | S3-234949 |
| S3-234708 | Handling of SoR/UPU Counter stored in NVM | Qualcomm Incorporated | revised | S3-233892 | S3-235052 |
| S3-234709 | Rel17 ProSe - Updates on U2N relay discovery key request procedure | Qualcomm Incorporated | not pursued | - | - |
| S3-234710 | Rel17 ProSe: Updates on U2N relay security over control plane | Qualcomm Incorporated | agreed | - | - |
| S3-234711 | Rel18 ProSe – Adding security for U2U Relay communication with integrated discovery | Qualcomm Incorporated | not pursued | - | - |
| S3-234712 | Draft Reply LS on Retrieving keys for decryption of protected IEs for U2N relay | Qualcomm Incorporated | merged | - | S3-235098 |
| S3-234713 | Rel18 ProSe - Updates on U2N relay discovery key request procedure | Qualcomm Incorporated | revised | - | S3-234941 |
| S3-234714 | Rel18 ProSe: Updates on U2N relay security over control plane | Qualcomm Incorporated | revised | - | S3-234942 |
| S3-234715 | Rel18 SL positioning - Updates on UE discovery procedure | Qualcomm Incorporated | merged | - | S3-235027 |
| S3-234716 | Draft Reply LS on procedures for UE discovery for Ranging\_SL | Qualcomm Incorporated | merged | - | S3-235075 |
| S3-234717 | Rel18 SL positioning - Updates on unicast direct communication security | Qualcomm Incorporated | agreed | - | - |
| S3-234718 | Use "visited PLMN" in the roaming description | Ericsson | agreed | - | - |
| S3-234719 | Use "visited PLMN" in the roaming description | Ericsson | agreed | - | - |
| S3-234720 | Validation of the parameters in the access token request in hierarchial NRF deployment | Ericsson | agreed | - | - |
| S3-234721 | Validation of the parameters in the access token request in roaming scenarios | Ericsson | agreed | - | - |
| S3-234722 | Validation of the parameters in the access token request in interconnect scenarios | Ericsson | agreed | - | - |
| S3-234723 | Use "visited PLMN" in the roaming description | Ericsson | agreed | - | - |
| S3-234724 | Guidance on mitigating privacy risk of variable length NAI based SUPIs | Ericsson, Qualcomm Incorporated | withdrawn | - | - |
| S3-234725 | New WID on 3GPP profiles for cryptographic algorithms and security protocols | Ericsson | revised | - | S3-235094 |
| S3-234726 | Study on enhanced Security Aspects of the 5G Service Based Architecture Phase 2 | Ericsson, Deutsche Telekom, Verizon, ZTE, China Telecom | noted | - | - |
| S3-234727 | CR to TS33.503 Clarification on the process of protecting U2U relay discovery message | CATT | merged | - | S3-235056 |
| S3-234728 | Retrieving keys for decryption of protected IEs for U2N relay | Ericsson, Huawei, HiSilicon | not pursued | - | - |
| S3-234729 | LS reply on LS on Retrieving keys for decryption of protected IEs for U2N relay | Ericsson | merged | - | S3-235098 |
| S3-234730 | UE-to-UE Relay Communication with integrated discovery | Ericsson | revised | - | S3-234843 |
| S3-234731 | Corrections | Ericsson | agreed | - | - |
| S3-234732 | Retrieving keys for decryption of protected IEs for U2N relay | Ericsson, Huawei, HiSilicon | not pursued | - | - |
| S3-234733 | UE Privacy handling for service exposure through PC5 | Ericsson | noted | - | - |
| S3-234734 | UE Privacy handling for service exposure through PC5 | Ericsson | merged | - | S3-235030 |
| S3-234735 | UE Privacy handling for Ranging/SL positioning | Ericsson | noted | - | - |
| S3-234736 | UE Privacy profile for Ranging SL positioning | Ericsson | not pursued | - | - |
| S3-234737 | Security for Subsequent Conditional PSCell Addition or Change | Ericsson | noted | - | - |
| S3-234738 | Clarification EMS interface | China Mobile | agreed | - | - |
| S3-234739 | Correction for VNF package and VNF image integrity of clause 4.2.3.3.5.2 | China Mobile | agreed | - | - |
| S3-234740 | Discussion on Security Management Serives Study | China Mobile | noted | - | - |
| S3-234741 | New SID on security management service | China Mobile | revised | - | S3-234773 |
| S3-234742 | New SID on Study on security aspects of AIML enhancements | China Mobile | revised | - | S3-234805 |
| S3-234743 | Discussion on security for XR | China Mobile | revised | - | S3-234791 |
| S3-234744 | New SID on security for XR services | China Mobile | revised | - | S3-234804 |
| S3-234745 | [draft] Reply LS for C4-230790 on Removal of the uavAuthenticated IE from Create SM Context Request\_LS | China Mobile | noted | - | - |
| S3-234746 | Removal of the indicator of UUAA-MM result from AMF | CMCC | merged | - | S3-235024 |
| S3-234747 | Removal of the indicator of UUAA-MM result from AMF | CMCC | merged | - | S3-235025 |
| S3-234748 | [draft] LS on Draft Reply LS on AKMA service restrictions | China Mobile | noted | - | - |
| S3-234749 | Rely LS on LI for AKMA in roaming | China Mobile | noted | - | - |
| S3-234750 | New SID on security support for next generation real time communication services Phase 2 | China Mobile | revised | - | S3-234806 |
| S3-234751 | Reply LS on potential collaboration between 3GPP SA3/SA5 and ETSI SAI ISG | China Mobile | merged | - | S3-235007 |
| S3-234752 | EN resolving in TS33.501 X.2(R17) | China Mobile | merged | - | S3-235034 |
| S3-234753 | EN resolving in TS33.501 X.2(R18) | China Mobile | merged | - | S3-235035 |
| S3-234754 | Vendor ID EN resolving in TS33.501 X.10\_Rel 17 | China mobile | not pursued | - | - |
| S3-234755 | Vendor ID EN resolving in TS33.501 X.10\_Rel 18 | China mobile | not pursued | - | - |
| S3-234756 | Resolving EN about AN parameters | Ericsson | not pursued | - | - |
| S3-234757 | Correction of CR implementation | Ericsson | revised | - | S3-235018 |
| S3-234758 | Editorial correction of CR implementation | Ericsson,Nokia | agreed | - | - |
| S3-234759 | Correction of Figure 7A.2.1-1 | Ericsson,Lenovo | agreed | - | - |
| S3-234760 | LS reply on key and security materials used for Ranging\_SL | OPPO | merged | - | S3-235075 |
| S3-234761 | CR of fixing references | Huawei, HiSilicon | revised | - | S3-235019 |
| S3-234762 | CR of terms, abbreviations and symbols | Huawei, HiSilicon | agreed | - | - |
| S3-234763 | New\_SID\_EdgeComputing | Huawei, HiSilicon | not treated | - | - |
| S3-234764 | Editorial modifications on PRINS | Huawei, HiSilicon | agreed | - | - |
| S3-234765 | Dummy WID for Authentication result removal | Huawei, HiSilicon | noted | - | - |
| S3-234766 | Authentication result removal | Huawei, HiSilicon | not pursued | - | - |
| S3-234767 | Editorial modifications on PRINS | Huawei, HiSilicon | merged | - | S3-235069 |
| S3-234768 | Addressing ENs on reformattedData and N32-f context | Huawei, HiSilicon | merged | - | S3-235069 |
| S3-234769 | Addressing EN on error message layers | Huawei, HiSilicon | merged | - | S3-235069 |
| S3-234770 | Deleting Note 3 in clause 5.9.3.2 | Huawei, HiSilicon | not pursued | - | - |
| S3-234771 | Reply LS on MSISDN exposure to trusted AF | Huawei, HiSilicon | noted | - | - |
| S3-234772 | Guidance on mitigating privacy risk of variable length NAI based SUPIs | Ericsson, Qualcomm Incorporated | revised | - | S3-235058 |
| S3-234773 | New SID on security management service | China Mobile, ZTE, Nokia, Nokia Shanghai Bell, CATT, CableLabs, China Telecom | noted | S3-234741 | - |
| S3-234774 | New SID on NEF - AF Exposure security enhancements | Ericsson | noted | - | - |
| S3-234775 | [Draft] LS on authentication and authorization aspects in usage of MC Gateway UE | Ericsson | noted | - | - |
| S3-234776 | R17-Clarification on reliable location information | Ericsson | not pursued | - | - |
| S3-234777 | Rel18-Clarification on reliable location information | Ericsson | not pursued | - | - |
| S3-234778 | [Draft] Reply LS on Clarification related to reliable location | Ericsson | noted | - | - |
| S3-234779 | Security of EAS discovery | Ericsson | not pursued | - | - |
| S3-234780 | [Draft] Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH) | Ericsson | noted | - | - |
| S3-234781 | 33.501 Rel-17 Correction: Reverting Annex P back to informative | Ericsson | not pursued | - | - |
| S3-234782 | 33.501 Rel-18 Correction: Reverting Annex P back to informative | Ericsson | not pursued | - | - |
| S3-234783 | [Draft] Reply LS on LS on MSISDN exposure to trusted AF | Ericsson | noted | - | - |
| S3-234784 | Identification of RNAA token | Ericsson | merged | - | S3-235113 |
| S3-234785 | Optimizations for accessing own resources | Ericsson | not pursued | - | - |
| S3-234786 | Clarification on resource owner ID | Ericsson | revised | - | S3-235059 |
| S3-234787 | Clarification on the scope of the Rel-18 RNAA specification | Ericsson | not pursued | - | - |
| S3-234788 | Correction on the GPSI verification | Ericsson | not pursued | - | - |
| S3-234789 | Clarification on EDGE-10 interface to cover the ECS-ER security | Ericsson | revised | - | S3-235023 |
| S3-234790 | Optimization in the authorization code flow usage | Ericsson | not pursued | - | - |
| S3-234791 | Discussion on security for XR | China Mobile | noted | S3-234743 | - |
| S3-234792 | Discussion on the authentication result removal operation | Ericsson | noted | - | - |
| S3-234793 | Reply LS on Authentication Result Removal | Ericsson | revised | - | S3-235099 |
| S3-234794 | Implementation corrections | Ericsson | merged | - | S3-235040 |
| S3-234795 | Clarifications of the AMF and UDM behaviour | Ericsson | merged | - | S3-235039 |
| S3-234796 | Update UE terminating procedures for e2DCe | Ericsson | agreed | - | - |
| S3-234797 | Change of the abbreviation "DCMF to "MF" and related changes to the text and figures | Ericsson | agreed | - | - |
| S3-234798 | Add the abbreviation "IMS AS" | Ericsson | agreed | - | - |
| S3-234799 | Remove "DC Application Server" in Figure N.3.4-1 and add a NOTE | Ericsson | agreed | - | - |
| S3-234800 | Editorial changes to clause 7.2.5 | Ericsson | agreed | - | - |
| S3-234801 | Change the "P-CSCF(IMS AS)" to "IMS AS via the P-CSCF" | Ericsson | agreed | - | - |
| S3-234802 | New SID on the security support for the Next Generation Real Time Communication services Phase 2 | Ericsson | revised | - | S3-235085 |
| S3-234803 | Proposal for a living document for the Protection of the RRC Resume Request message | Ericsson, Apple | noted | - | - |
| S3-234804 | New SID on security for XR services | China Mobile | noted | S3-234744 | - |
| S3-234805 | New SID on Study on security aspects of AIML enhancements | China Mobile, Interdigital, AT&T, Apple, Xiaomi, Oppo, Lenovo, Philips, ZTE | not treated | S3-234742 | - |
| S3-234806 | New SID on security support for next generation real time communication services Phase 2 | China Mobile | merged | S3-234750 | S3-235085 |
| S3-234807 | Update clause 6.2.3 in TS 33.533 | OPPO | merged | - | S3-235027 |
| S3-234808 | Definitions of terms, symbols and abbreviations of Security Assurance Specification for Short Message Service Function (SMSF) | IIT Bombay | approved | - | - |
| S3-234809 | Discussion paper on security aspects of 5G support for Femto (HgNB) | Nokia, Nokia Shanghai Bell | not treated | - | - |
| S3-234810 | Study on Security Aspect of Ambient IoT Services in 5G | OPPO, Cable Labs, Apple, ZTE, Xiaomi, Verizon, Intel, T-Mobile USA, Philips International B.V., China Telecom, Lenovo, Xidian, BUPT, Vivo, China Unicom, Inter Digital, KPN, Huawei, HiSilicon, CATR, CATT, Samsung, China Mobile | noted | - | - |
| S3-234811 | 4.1.12 - Discussion on privacy of sharing location of Located UEs | Philips International B.V. | noted | - | - |
| S3-234812 | 3 - Reply LS on security aspects for Ranging Sidelink Positioning | Philips International B.V. | merged | - | S3-235078 |
| S3-234813 | 3 - Reply LS on UE Ranging SL Positioning privacy profile | Philips International B.V. | noted | - | - |
| S3-234814 | Resolution of one EN (storage request update) in Security for AI/ML model storage and sharing | Ericsson | agreed | - | - |
| S3-234815 | Update flow of Nnwdaf\_MLModelProvision | Ericsson | revised | - | S3-235037 |
| S3-234816 | Resolution of one Editor's Note (Transaction ID) for Security for AI/ML model storage and sharing | Ericsson | merged | - | S3-235036 |
| S3-234817 | Correction on allowed NFc list for model storage and sharing in indirect communication scenarios | Ericsson | not pursued | - | - |
| S3-234818 | Clarify ADRF usage to be optional | Ericsson | agreed | - | - |
| S3-234819 | Authorization of Model Sharing with MTLF | Ericsson | not pursued | - | - |
| S3-234820 | LS on Model Sharing With MTLF | Ericsson | revised | - | S3-235110 |
| S3-234821 | Handling of 3gpp-Sbi-Originating-Network-Id header in the SNPN case | Ericsson, Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-234822 | Handling of 3gpp-Sbi-Originating-Network-Id header in the SNPN case | Ericsson, Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-234823 | Discussion of the Verification of the serving network name by the AUSF | Ericsson | noted | - | - |
| S3-234824 | Verification of the serving network name by the AUSF | Ericsson | agreed | - | - |
| S3-234825 | Verification of the serving network name by the AUSF | Ericsson | agreed | - | - |
| S3-234826 | Correction of N32-f terminology | Ericsson | merged | - | S3-235069 |
| S3-234827 | Input to Rel-19 prioritization and time planning | Ericsson | noted | - | - |
| S3-234828 | [IAB][Rel-17] IAB inter-CU topology adaptation procedure | Samsung, Intel, Nokia, Nokia Shanghai Bell | revised | - | S3-235032 |
| S3-234829 | [IAB][Rel-18] IAB inter-CU topology adaptation procedure | Samsung, Intel, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | revised | - | S3-235033 |
| S3-234830 | Discussion paper on Selective SCG activation | Samsung | noted | - | - |
| S3-234831 | Security for Selective SCG Activation | Samsung | not pursued | - | - |
| S3-234832 | Revocation procedure for RNAA | Samsung | not pursued | - | - |
| S3-234833 | Updating security procedure to enable Roaming Hubs | Samsung | not pursued | - | - |
| S3-234834 | Discussion on study for security aspects of 5G Mobile Metaverse | Samsung | not treated | - | - |
| S3-234835 | New SID on security aspects of 5G Mobile Metaverse services | Samsung, Nokia, Nokia Shanghai Bell, Lenovo, OPPO | noted | - | - |
| S3-234836 | Draft\_LS reply for R2- 2306693 on Reporting of Relay UE C-RNTI and NCGI | Samsung | merged | - | S3-235005 |
| S3-234837 | Discussion paper on handling of SOR and UPU counter if stored in NVM | Samsung | noted | - | - |
| S3-234838 | 5MBS Annex W.4.2 | Ericsson | revised | - | S3-235106 |
| S3-234839 | Hop-by-hop security policy | OPPO | not pursued | - | - |
| S3-234840 | Reply LS on AKMA service restrictions in Rel-17 | NDRE, NTAC, PIDS, Security Service | noted | - | - |
| S3-234841 | Incorrect clause reference | OPPO | merged | - | S3-235010 |
| S3-234842 | Correction of protocol in Expected format of evidence | BSI (DE) | revised | - | S3-234950 |
| S3-234843 | UE-to-UE Relay Communication with integrated discovery | Ericsson | not pursued | S3-234730 | - |
| S3-234844 | Added missing Test Name and Expected format of evidence | BSI (DE) | revised | - | S3-234952 |
| S3-234845 | Correction of IE and protocol | BSI (DE) | revised | - | S3-234951 |
| S3-234846 | Response LS on LI for AKMA in roaming | NDRE, NTAC, PIDS, Security Service | noted | - | - |
| S3-234847 | Added UDM threat reference for use of an invalid and uncompressed point in ECIES protection scheme for SUCI decryption | BSI (DE) | revised | - | S3-234953 |
| S3-234848 | Added UDM SCAS test cases for checking an invalid and uncompressed point in ECIES protection scheme for SUCI decryption | BSI (DE) | revised | - | S3-234954 |
| S3-234849 | LS reply for Security for AI ML management capabilities | Nokia, Nokia Shanghai Bell | revised | - | S3-235101 |
| S3-234850 | 5MBS Annex W.4.2 | Ericsson | revised | - | S3-235107 |
| S3-234851 | LS reply for LS on user consent for SON/MDT for NB-IoT UEs | Nokia, Nokia Shanghai Bell | revised | - | S3-235004 |
| S3-234852 | LS reply for LS on QMC support in RRC\_IDLE and RRC\_INACTIVE | Nokia, Nokia Shanghai Bell | revised | - | S3-235102 |
| S3-234853 | Rel-19 TU management | SA WG3 Chair | noted | - | - |
| S3-234854 | Guidance on mitigating privacy risk of variable length NAI-based SUPIs | InterDigital Communications, Nokia | revised | S3-234561 | S3-234925 |
| S3-234855 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell, Ericsson | revised | S3-233614 | S3-234923 |
| S3-234856 | 4.1.3 - Clause 6.1.3.3 - Clarification UE-to-UE Relay discovery key provisioning | Philips International B.V. | not pursued | - | - |
| S3-234857 | Resolution of EN concerning the content of AN-parameters. | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234858 | Editorial correction of incorrectly formatted text. | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234859 | Reintroduction of agreed changes not merged to TS 33.501 v 18.3.0 | Nokia, Nokia Shanghai Bell | merged | - | S3-235018 |
| S3-234860 | New SID on 5GS enhancements for Energy Saving | Nokia, Nokia Shanghai Bell, Telecom Italia, OPPO | revised | - | S3-235084 |
| S3-234861 | DP on Educational Paper N32 connection establishment for bilateral TLS | Nokia, Nokia Shanghai Bell | revised | - | S3-235112 |
| S3-234862 | LS-Reply on N32 connection establishment for bilateral TLS | Nokia, Nokia Shanghai Bell | revised | - | S3-235068 |
| S3-234863 | SEPP requirement for error handling from Roaming Intermediaries | Nokia, Nokia Shanghai Bell | merged | - | S3-235069 |
| S3-234864 | N32f and N32c correlation issue | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234865 | Security profiles for PRINS | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234866 | LS on PRINS security profiling | Nokia, Nokia Shanghai Bell | revised | - | S3-235067 |
| S3-234867 | Discussion SNAAPP-CAPIF RNAA authorization methods and related interfaces | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234868 | Detailed functional security model description for support of RNAA | Nokia, Nokia Shanghai Bell | revised | - | S3-235104 |
| S3-234869 | LS-reply to CVD-2023-0069 - 5G Core Network Attacks | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234870 | CVD-0069 Cross check on NF discovery request | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234871 | CVD-0069 Condition of including allowed sNSSAIs in access token | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234872 | CVD-0069 Access token validity time | Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-234873 | SID on Security considerations for 5G SA roaming | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234874 | SID on 5G Security Assurance Specification (SCAS) for the Cloud Native Products (CNP) | Ericsson | noted | - | - |
| S3-234875 | Reply LS on Monitoring of Encrypted 5GS Signalling Traffic | Ericsson | revised | - | S3-235009 |
| S3-234876 | discussion on resource isolation enforcement for application in 5G network | Nokia, Nokia Shanghai Bell | noted | S3ah-230020 | - |
| S3-234877 | Study on resource isolation enforcement for application in 5G network | Nokia, Nokia Shanghai Bell, U.S. National Security Agency, NIST, CableLabs, China Telecommunications, Google | noted | S3ah-230021 | - |
| S3-234878 | LS reply for Reply LS on Mitigation of Downgrade attacks | Nokia, Nokia Shanghai Bell | revised | - | S3-234991 |
| S3-234879 | Correction of reference and related text | Orange | revised | - | S3-235020 |
| S3-234880 | Update to the Reference Points in Clause 4.2.2 | Xiaomi | agreed | - | - |
| S3-234881 | Update to Common Security in Clause 5 | Xiaomi | agreed | - | - |
| S3-234882 | Add differences between Ranging discovery and ProSe discovery | Xiaomi | revised | - | S3-235027 |
| S3-234883 | [Draft] Reply LS on key and security materials used for Ranging\_SL | Xiaomi Technology | revised | - | S3-235075 |
| S3-234884 | Update to failure handling for authorization of UE role included in DCR | Xiaomi | agreed | - | - |
| S3-234885 | Update to AF authorization procedure for Ranging/SL positioning service exposure | Xiaomi | revised | - | S3-235028 |
| S3-234886 | Add privacy handing for Ranging/SL positioning service exposure through 5GC CP | Xiaomi | revised | - | S3-235029 |
| S3-234887 | Add privacy handing for Ranging/SL positioning service exposure through PC5 | Xiaomi | not pursued | - | - |
| S3-234888 | Update to authorization for Ranging/SL positioning service exposure through PC5 | Xiaomi | not pursued | - | - |
| S3-234889 | Update to the title for unicast direct communication with long-term credential | Xiaomi | revised | - | S3-235031 |
| S3-234890 | Resolve the Editor's Note on SL Positioning service identifier | Xiaomi | not pursued | - | - |
| S3-234891 | Update to unicast communication for SL positioning service provided by network | Xiaomi | not pursued | - | - |
| S3-234892 | Unicast communication security supported by V2X UEs for SL positioning service provided by network | Xiaomi | not pursued | - | - |
| S3-234893 | Update to the procedure of UE privacy verification for UE-only operation | Xiaomi | not pursued | - | - |
| S3-234894 | [Draft] Reply LS on security aspects for Ranging/Sidelink Positioning | Xiaomi Technology | revised | - | S3-235078 |
| S3-234895 | Add the general clause for UE-to-UE Relay Communication | Beijing Xiaomi Mobile Software | merged | - | S3-235011 |
| S3-234896 | Clarification on protection on the direct discovery set in the U2U discovery | Beijing Xiaomi Mobile Software | not pursued | - | - |
| S3-234897 | Clarification on UE-to-UE Relay coverage status in the U2U discovery model B procedure | Beijing Xiaomi Mobile Software | merged | - | S3-235010 |
| S3-234898 | Clarification on the discovery security parameters in the U2N discovery | Beijing Xiaomi Mobile Software | merged | - | S3-235012 |
| S3-234899 | Clarification on the discovery security parameters in the U2N discovery (mirror) | Beijing Xiaomi Mobile Software | not pursued | - | - |
| S3-234900 | Clarification on the authorization for UEs belonging to different PLMNs | Xiaomi | not pursued | - | - |
| S3-234901 | Clarification on the Ranging/SL Positioning service exposure | Xiaomi | agreed | - | - |
| S3-234902 | Clarification on the UE Ranging/SL Positioning privacy profile | Xiaomi | not pursued | - | - |
| S3-234903 | Reply LS on Reporting of Relay UE C-RNTI and NCGI | Beijing Xiaomi Mobile Software | merged | - | S3-235005 |
| S3-234904 | Reply LS on Retrieving keys for decryption of protected IEs for U2N relay | Beijing Xiaomi Mobile Software | revised | - | S3-235098 |
| S3-234905 | Reply LS on Security for 5G ProSe UE-to-Network Relay Discovery | Beijing Xiaomi Mobile Software | merged | - | S3-234992 |
| S3-234906 | [Draft] Reply LS on supporting resource owner-aware northbound API access | Xiaomi communications | merged | - | S3-235003 |
| S3-234907 | Clarification for CAPIF-8 | Xiaomi | revised | - | S3-235111 |
| S3-234908 | Resolve EN related to authorization flow | Xiaomi | revised | - | S3-235114 |
| S3-234909 | Streamline the Editor's Notes for RNAA | Xiaomi | not pursued | - | - |
| S3-234910 | Update for authorization revocation procedure for RNAA | Xiaomi | not pursued | - | - |
| S3-234911 | Resolve EN related to API invoker ID and GPSI | Xiaomi | not pursued | - | - |
| S3-234912 | Routing indicator update issue in the A-KID construction procedure Release 17 | Xiaomi | not pursued | - | - |
| S3-234913 | Routing indicator update issue in the A-KID construction procedure Release 18 (mirror) | Xiaomi | not pursued | - | - |
| S3-234914 | New SID on security aspects of Integrated Sensing and Communication | Xiaomi, OPPO, China Telecom, Apple, ZTE, Lenovo, vivo, Cable Labs, Huawei, HiSilicon, Intel | noted | - | - |
| S3-234915 | Correction of reference and related text | Orange | revised | - | S3-235021 |
| S3-234916 | Correction of reference and related text | Orange UK | revised | - | S3-235022 |
| S3-234917 | Correcting the UUID example in SBA certificates | Ericsson | withdrawn | - | - |
| S3-234918 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | withdrawn | - | - |
| S3-234919 | Correcting the UUID example in SBA certificates | Ericsson | withdrawn | - | - |
| S3-234920 | Correction to Figure 16.4-1 | Ericsson | not pursued | - | - |
| S3-234921 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | withdrawn | - | - |
| S3-234922 | Correcting the UUID example in SBA certificates | Ericsson | withdrawn | - | - |
| S3-234923 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell, Ericsson | not pursued | S3-234855 | - |
| S3-234924 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | withdrawn | - | - |
| S3-234925 | Guidance on mitigating privacy risk of variable length NAI-based SUPIs | InterDigital Communications, Nokia | merged | S3-234854 | S3-235058 |
| S3-234926 | Discussion paper on 33.122 updates and responses for reply-LS on SNAAPPY | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-234927 | Correction to Figure 16.4-1 | Ericsson | not pursued | - | - |
| S3-234928 | Correcting the UUID example in SBA certificates | Ericsson | agreed | - | - |
| S3-234929 | Add UDM SCAS test case for checking the authentication verification of a synchronization failure message | BSI (DE) | revised | - | S3-234955 |
| S3-234930 | Add UDM threat reference for missing verification of synchronization failure messages. | BSI (DE) | revised | - | S3-234956 |
| S3-234931 | Correcting the UUID example in SBA certificates | Ericsson | agreed | - | - |
| S3-234932 | Add the case of a failed AUTS verification in the UDM/ARPF to the synchronization failure recovery of the Home Network | BSI (DE) | revised | - | S3-234957 |
| S3-234933 | Establishing IPsec SAs for IAB inter-CU topology adaptation and backhaul RLF recovery procedure | Qualcomm Incorporated | not pursued | S3-234703 | - |
| S3-234934 | Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure | BSI (DE) | revised | - | S3-234958 |
| S3-234935 | Correcting the UUID example in SBA certificates | Ericsson | agreed | - | - |
| S3-234936 | Updating the FC values | Qualcomm Incorporated | not pursued | S3-234705 | - |
| S3-234937 | Response LS to C4-230790 | Lenovo | noted | - | - |
| S3-234938 | Updating the FC values | Qualcomm Incorporated | not pursued | S3-234706 | - |
| S3-234939 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | not pursued | - | - |
| S3-234940 | Discussion on UUAA Determination | Lenovo | noted | - | - |
| S3-234941 | Rel18 ProSe - Updates on U2N relay discovery key request procedure | Qualcomm Incorporated | not pursued | S3-234713 | - |
| S3-234942 | Rel18 ProSe: Updates on U2N relay security over control plane | Qualcomm Incorporated | agreed | S3-234714 | - |
| S3-234943 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | not pursued | - | - |
| S3-234944 | Updates to Clause 5.2.1.1 | Lenovo | merged | - | S3-235025 |
| S3-234945 | resolving RNA stage 2 editor's notes | NTT DOCOMO INC. | revised | - | S3-234961 |
| S3-234946 | New WID on mission critical security enhancements for release 19 | Motorola Solutions Germany | revised | S3-234406 | S3-235057 |
| S3-234947 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | not pursued | - | - |
| S3-234948 | Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH) | Nokia, Nokia Shanghai Bell | revised | - | S3-235073 |
| S3-234949 | Clarify the use of UUAA-MM for pairing authorisation | Qualcomm Incorporated | agreed | S3-234707 | - |
| S3-234950 | Correction of protocol in Expected format of evidence | BSI (DE) | agreed | S3-234842 | - |
| S3-234951 | Correction of IE and protocol | BSI (DE) | agreed | S3-234845 | - |
| S3-234952 | Added missing Test Name and Expected format of evidence | BSI (DE) | agreed | S3-234844 | - |
| S3-234953 | Added UDM threat reference for use of an invalid and uncompressed point in ECIES protection scheme for SUCI decryption | BSI (DE) | agreed | S3-234847 | - |
| S3-234954 | Added UDM SCAS test cases for checking an invalid and uncompressed point in ECIES protection scheme for SUCI decryption | BSI (DE) | revised | S3-234848 | S3-235043 |
| S3-234955 | Add UDM SCAS test case for checking the authentication verification of a synchronization failure message | BSI (DE) | not pursued | S3-234929 | - |
| S3-234956 | Add UDM threat reference for missing verification of synchronization failure messages. | BSI (DE) | not pursued | S3-234930 | - |
| S3-234957 | Add the case of a failed AUTS verification in the UDM/ARPF to the synchronization failure recovery of the Home Network | BSI (DE) | not pursued | S3-234932 | - |
| S3-234958 | Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure | BSI (DE) | revised | S3-234934 | S3-234959 |
| S3-234959 | Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure | BSI (DE) | not pursued | S3-234958 | - |
| S3-234960 | Resolution of one Editor's Note (Interoperability ID) for Security for AI/ML model storage and sharing | Ericsson, Nokia, Nokia Shanghai Bell,China Mobile | agreed | - | - |
| S3-234961 | Resolving stage 2 editor's notes | NTT DOCOMO | not pursued | S3-234945 | - |
| S3-234962 | Prohibiting GEA1 and GEA2 in devices (Response to LS in S3-234488) | VODAFONE | revised | - | S3-234975 |
| S3-234963 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | revised | - | S3-234993 |
| S3-234964 | Prohibition of GEA1 and GEA2 due to security concerns | VODAFONE | revised | - | S3-234994 |
| S3-234965 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | revised | - | S3-234995 |
| S3-234966 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | revised | - | S3-234996 |
| S3-234967 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | revised | - | S3-234997 |
| S3-234968 | Prohibition of GEA1 and GEA2 due to security concerns | VODAFONE | revised | - | S3-234974 |
| S3-234969 | Prohibition of GEA2 due to security concerns | Vodafone | revised | - | S3-234998 |
| S3-234970 | Prohibition of GEA2 due to security concerns | Vodafone | revised | - | S3-234999 |
| S3-234971 | Prohibition of GEA2 due to security concerns | Vodafone | revised | - | S3-235000 |
| S3-234972 | Prohibition of GEA2 due to security concerns | Vodafone | revised | - | S3-235001 |
| S3-234973 | Updating intermediary originated error message procedure | NTT DOCOMO, Vodafone | merged | S3-234614 | S3-235069 |
| S3-234974 | Prohibition of GEA2 due to security concerns | Vodafone | revised | S3-234968 | S3-235002 |
| S3-234975 | Prohibiting GEA1 and GEA2 in devices (Response to LS in S3-234488) | VODAFONE | noted | S3-234962 | - |
| S3-234976 | LS to include Source and Destination Interface Type for Indirect DL Data Forwarding Tunnel related N4 requests | s3i230618 | noted | - | - |
| S3-234977 | LS on NAS Cause Value - Unspecified | s3i230621 | noted | - | - |
| S3-234978 | SAGE-23-02 Resynchronisation protection f5\*\* for MILENAGE-128 and Tuak. | ETSI SAGE | postponed | - | - |
| S3-234979 | Reply LS on security for selective SCG activation | R2-2311618 | replied to | - | - |
| S3-234980 | Reply LS on N32 Race conditions and recovery | C4-234663 | noted | - | - |
| S3-234981 | Discussion on R19 priorities | MITRE Corporation | noted | - | - |
| S3-234982 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | agreed | S3-234413 | - |
| S3-234983 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | agreed | S3-234414 | - |
| S3-234984 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | agreed | S3-234415 | - |
| S3-234985 | Detail agenda planning for SA3#113 | SA WG3 Chair | noted | S3-234403 | - |
| S3-234986 | Report from SA3#112 | MCC | approved | S3-234401 | - |
| S3-234987 | Reply to: LS on LI for AKMA in roaming | Nokia | approved | - | - |
| S3-234988 | Reply to: LS on AKMA service restrictions in Rel-17 | Nokia | withdrawn | - | - |
| S3-234989 | Elaborated LS reply to S3-234350 on Roaming Hub requirements as applicable to the Modified PRINS solution | GSMA | postponed | - | - |
| S3-234990 | Elaborated LS reply to S3-234350 on IPX Service Hub requirements as applicable to the Modified PRINS solution | GSMA | postponed | - | - |
| S3-234991 | LS reply for Reply LS on Mitigation of Downgrade attacks | Nokia, Nokia Shanghai Bell | approved | S3-234878 | - |
| S3-234992 | LS reply on security for 5G ProSe UE-to-network relay discovery | OPPO | approved | S3-234692 | - |
| S3-234993 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | agreed | S3-234963 | - |
| S3-234994 | Prohibition of GEA1 and GEA2 due to security concerns | VODAFONE | agreed | S3-234964 | - |
| S3-234995 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | agreed | S3-234965 | - |
| S3-234996 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | agreed | S3-234966 | - |
| S3-234997 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | agreed | S3-234967 | - |
| S3-234998 | Prohibition of GEA2 due to security concerns | Vodafone | agreed | S3-234969 | - |
| S3-234999 | Prohibition of GEA2 due to security concerns | Vodafone | agreed | S3-234970 | - |
| S3-235000 | Prohibition of GEA2 due to security concerns | Vodafone | agreed | S3-234971 | - |
| S3-235001 | Prohibition of GEA2 due to security concerns | Vodafone | agreed | S3-234972 | - |
| S3-235002 | Prohibition of GEA2 due to security concerns | Vodafone | agreed | S3-234974 | - |
| S3-235003 | LS-reply to CT3 on SNAAPPY | Huawei, HiSilicon | approved | S3-234613 | - |
| S3-235004 | LS reply for LS on user consent for SON/MDT for NB-IoT UEs | Nokia, Nokia Shanghai Bell | approved | S3-234851 | - |
| S3-235005 | LS reply on Reporting of Relay UE C-RNTI and NCGI | Huawei, HiSilicon | approved | S3-234646 | - |
| S3-235006 | Reply to: LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond | Huawei | approved | - | - |
| S3-235007 | Reply LS on potential collaboration between 3GPP SA3 and ETSI | InterDigital Communications | approved | S3-234506 | - |
| S3-235008 | Reply to: LSOut Reply to 3GPP Reply LS on Authenticated Vulnerability Testing | Nokia | approved | - | - |
| S3-235009 | Reply LS on Monitoring of Encrypted 5GS Signalling Traffic | Ericsson | approved | S3-234875 | - |
| S3-235010 | CR to TS33.503 Correction U2U Relay Communication | CATT | agreed | S3-234700 | - |
| S3-235011 | Update clause 6.1.1, 6.6.1, 6.6.3.3 and 6.6.4.1 | OPPO, Xidian | agreed | S3-234688 | - |
| S3-235012 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell, Ericsson | withdrawn | - | - |
| S3-235013 | Update discovery key response of U2N discovery security procdure | Nokia,Qualcomm Incorporated | withdrawn | - | - |
| S3-235014 | Correction in UDM and GPSI related requirements | Nokia, Nokia Shanghai Bell | agreed | S3-234523 | - |
| S3-235015 | Correction in UDM and GPSI related requirements | Nokia, Nokia Shanghai Bell | agreed | S3-234524 | - |
| S3-235016 | Existing AKMA procedure alignment | Nokia, Nokia Shanghai Bell | agreed | S3-234527 | - |
| S3-235017 | Existing AKMA procedure alignment | Nokia, Nokia Shanghai Bell | agreed | S3-234528 | - |
| S3-235018 | Correction of CR implementation | Ericsson,Nokia | agreed | S3-234757 | - |
| S3-235019 | CR of fixing references | Huawei, HiSilicon | agreed | S3-234761 | - |
| S3-235020 | Correction of reference and related text | Orange | agreed | S3-234879 | - |
| S3-235021 | Correction of reference and related text | Orange | agreed | S3-234915 | - |
| S3-235022 | Correction of reference and related text | Orange UK | agreed | S3-234916 | - |
| S3-235023 | Clarification on EDGE-10 interface to cover the ECS-ER security | Ericsson | agreed | S3-234789 | - |
| S3-235024 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | withdrawn | - | - |
| S3-235025 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | withdrawn | - | - |
| S3-235026 | Update the abbreviations in 33.533 | ZTE | agreed | S3-234584 | - |
| S3-235027 | Add differences between Ranging discovery and ProSe discovery | Xiaomi | agreed | S3-234882 | - |
| S3-235028 | Update to AF authorization procedure for Ranging/SL positioning service exposure | Xiaomi | agreed | S3-234885 | - |
| S3-235029 | Add privacy handing for Ranging/SL positioning service exposure through 5GC CP | Xiaomi | agreed | S3-234886 | - |
| S3-235030 | Add privacy handing for Ranging/SL positioning service exposure through PC5 | Xiaomi | withdrawn | - | - |
| S3-235031 | Update to the title for unicast direct communication with long-term credential | Xiaomi | agreed | S3-234889 | - |
| S3-235032 | [IAB][Rel-17] IAB inter-CU topology adaptation procedure | Samsung, Intel, Nokia, Nokia Shanghai Bell | agreed | S3-234828 | - |
| S3-235033 | [IAB][Rel-18] IAB inter-CU topology adaptation procedure | Samsung, Intel, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-234829 | - |
| S3-235034 | Conveying the CCA of the source NF service consumer | Nokia, Nokia Shanghai Bell, Ericsson | agreed | S3-234560 | - |
| S3-235035 | Conveying the CCA of the source NF service consumer | Nokia, Nokia Shanghai Bell, Ericsson | agreed | S3-234553 | - |
| S3-235036 | Removing EN in X.10 clause of TS 33.501 related to allowed NF consumers list | Nokia, Nokia Shanghai Bell | agreed | S3-234555 | - |
| S3-235037 | Update flow of Nnwdaf\_MLModelProvision | Ericsson | agreed | S3-234815 | - |
| S3-235038 | Reuse error code during home network triggered primary authentication procedure | ZTE | agreed | S3-234596 | - |
| S3-235039 | Clarify AMF responses in HONTRA procedure. | ZTE Corporation | withdrawn | - | - |
| S3-235040 | clarification for HONTRA procedure | Huawei, HiSilicon | agreed | S3-234655 | - |
| S3-235041 | Callback URI clarification and API correction | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S3-235042 | Replace reference to IETF draft-emu-eap-tls13 in annex B with RFC 9190 | CableLabs | agreed | S3-234575 | - |
| S3-235043 | Added UDM SCAS test cases for checking an invalid and uncompressed point in ECIES protection scheme for SUCI decryption | BSI (DE) | agreed | S3-234954 | - |
| S3-235044 | Draft TS 33.529 | IIT Bombay | approved | - | - |
| S3-235045 | Removing GUTI from Registration Reject | Nokia, Nokia Shanghai Bell | agreed | S3-234536 | - |
| S3-235046 | NULL encryption clarification | Nokia, Nokia Shanghai Bell | agreed | S3-234537 | - |
| S3-235047 | UPU Header Security | Lenovo | withdrawn | - | - |
| S3-235048 | AUSF sends back MSK to W-AGF after successful EAP authentication | CableLabs | agreed | S3-234577 | - |
| S3-235049 | Inconsistent use of terms | Nokia, Nokia Shanghai Bell, Deutsche Telekom, T-mobile, ZTE, Ericsson, BSI, Huawei, TELUS, MITRE Corporation | agreed | - | - |
| S3-235050 | Disclaimer for Indirect Communication | Nokia, Nokia Shanghai Bell | agreed | S3-234439 | - |
| S3-235051 | Reply LS on Security Solution for Selective SCG | Nokia, Nokia Shanghai Bell | approved | S3-234437 | - |
| S3-235052 | Handling of SoR/UPU Counter stored in NVM | Qualcomm Incorporated | agreed | S3-234708 | - |
| S3-235053 | Reply LS on Handling of SOR counter and the UE parameter update counter if stored in NVM | Apple | approved | S3-234670 | - |
| S3-235054 | CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 17 | CATT | agreed | S3-234698 | - |
| S3-235055 | CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 18 (mirror) | CATT | agreed | S3-234699 | - |
| S3-235056 | 4.1.3 - Clause 6.1.3.3 - Clarification DDS | Philips International B.V. | agreed | S3-234512 | - |
| S3-235057 | New WID on mission critical security enhancements for release 19 | Motorola Solutions Germany | agreed | S3-234946 | - |
| S3-235058 | Guidance on mitigating privacy risk of variable length NAI based SUPIs | Ericsson, Qualcomm Incorporated | agreed | S3-234772 | - |
| S3-235059 | Clarification on resource owner ID | Ericsson | agreed | S3-234786 | - |
| S3-235060 | Clarification on the scope of the Rel-18 RNAA specification | Ericsson | withdrawn | - | - |
| S3-235061 | Security of EAS discovery | Ericsson | withdrawn | - | - |
| S3-235062 | 33.501 Rel-17 Correction: Reverting Annex P back to informative | Ericsson | withdrawn | - | - |
| S3-235063 | 33.501 Rel-18 Correction: Reverting Annex P back to informative | Ericsson | withdrawn | - | - |
| S3-235064 | Identification of RNAA token | Ericsson | withdrawn | - | - |
| S3-235065 | Optimizations for accessing own resources | Ericsson | withdrawn | - | - |
| S3-235066 | Security of 5G ProSe PC5 Communication – clarification | Philips International B.V. | agreed | S3-234509 | - |
| S3-235067 | LS on PRINS security profiling | Nokia, Nokia Shanghai Bell | approved | S3-234866 | - |
| S3-235068 | LS-Reply on N32 connection establishment for bilateral TLS | Nokia, Nokia Shanghai Bell | approved | S3-234862 | - |
| S3-235069 | Restructuring and addressing editor's Note on N32 and/or SBA layers for Modified PRINS | Vodafone, Verizon, T-Mobile USA, NTT DOCOMO, BSI (DE), Nokia, Nokia Shanghai Bell, Comcast, Deutsche Telekom | agreed | S3-234694 | - |
| S3-235070 | Defining Roaming Hub | NTT DOCOMO, Vodafone | withdrawn | - | - |
| S3-235071 | Reply to: LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE | Nokia | approved | - | - |
| S3-235072 | New WID on Milenage-256 algorithm | THALES, Idemia, NIST, ORANGE, Nokia, Telecom Italia | agreed | S3-234681 | - |
| S3-235073 | Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH) | Nokia, Nokia Shanghai Bell | approved | S3-234948 | - |
| S3-235074 | LS Reply on developing a security solution for PINAPP architecture | InterDigital Communications | approved | S3-234564 | - |
| S3-235075 | Reply LS on key and security materials used for Ranging\_SL | Xiaomi Technology | approved | S3-234883 | - |
| S3-235076 | Ls on uniqueness of Prose U2NRSC | Nokia | approved | - | - |
| S3-235077 | NSWO support in SNPN using CH with AAA server | CableLabs, Charter Communications | agreed | S3-234571 | - |
| S3-235078 | Reply LS on security aspects for Ranging/Sidelink Positioning | Xiaomi Technology | approved | S3-234894 | - |
| S3-235079 | Resolve the issue when SLPTK ID is about to wrap around | ZTE | agreed | S3-234583 | - |
| S3-235080 | Editorial corrections to TS 33.535 in R17 | ZTE Corporation | agreed | S3-234591 | - |
| S3-235081 | Editorial corrections to TS 33.535 in R18 | ZTE Corporation | agreed | S3-234592 | - |
| S3-235082 | N3IWF procedure clarification | Nokia, Nokia Shanghai Bell | agreed | S3-234541 | - |
| S3-235083 | Resolution of EN concerning the content of AN-parameters. | Nokia, Nokia Shanghai Bell | withdrawn | - | - |
| S3-235084 | New SID on 5GS enhancements for Energy Saving | Nokia, Nokia Shanghai Bell, Telecom Italia, OPPO | agreed | S3-234860 | - |
| S3-235085 | New SID on the security support for the Next Generation Real Time Communication services Phase 2 | Ericsson | agreed | S3-234802 | - |
| S3-235086 | New SID on security aspects of 5G Mobile Metaverse services | Samsung, Nokia, Nokia Shanghai Bell, Lenovo, OPPO | withdrawn | - | - |
| S3-235087 | New SID on security for PLMN hosting a NPN | China Telecommunications, CableLabs, ZTE, CATT, China Unicom, Apple, China Mobile, Oppo, Lenovo | agreed | S3-234574 | - |
| S3-235088 | Study on Security Aspect of Ambient IoT Services in 5G | OPPO, Cable Labs, Apple, ZTE, Xiaomi, Verizon, Intel, T-Mobile USA, Philips International B.V., China Telecom, Lenovo, Xidian, BUPT, Vivo, China Unicom, Inter Digital, KPN, Huawei, HiSilicon, CATR, CATT, Samsung, China Mobile | withdrawn | - | - |
| S3-235089 | New SID on enablers for Zero Trust Security | Lenovo, Motorola Mobility, MITRE, Interdigital, Motorola Solutions, Charter Communications, Johns Hopkins University APL, Intel, US National Security Agency, Telefonica, NCSC, OTD\_US, Deutsche Telekom, Keysight Technologies, Center for Internet Security, | agreed | S3-234417 | - |
| S3-235090 | Study of ACME for Automated Certificate Management in SBA | Cisco Systems, Google, Mavenir, CableLabs, Charter Communications, AT&T, Microsoft, TELUS, DISH Network, Deutsche Telekom, Johns Hopkins University APL | agreed | S3-234502 | - |
| S3-235091 | New SID on study on enabling a cryptographic algorithm transition to 256 bits | KDDI Corporation | agreed | S3-234517 | - |
| S3-235092 | New SID on Double Layer Security Optimization | Lenovo, BROADCOM CORPORATION, CableLabs, CATT, Charter Communications, Inc, China Mobile, CISCO, Deutsche Telekom, InterDigital, Inc., LG Electronics, Nokia, Tencent, vivo Mobile Communication Co., Xiaomi, ZTE Corporation | withdrawn | - | - |
| S3-235093 | Study on privacy aspects of collection and sharing management data | Nokia, Nokia Shanghai Bell, IIT Delhi, Interdigital, Lenovo, AT&T, CMCC, Apple | withdrawn | - | - |
| S3-235094 | New WID on 3GPP profiles for cryptographic algorithms and security protocols | Ericsson | agreed | S3-234725 | - |
| S3-235095 | Study on resource isolation enforcement for application in 5G network | Nokia, Nokia Shanghai Bell, U.S. National Security Agency, NIST, CableLabs, China Telecommunications, Google | withdrawn | - | - |
| S3-235096 | New study proposal on Mitigations on Bidding Down Attack | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-234624 | - |
| S3-235097 | Study on enhanced Security Aspects of the 5G Service Based Architecture Phase 2 | Ericsson, Deutsche Telekom, Verizon, ZTE, China Telecom | withdrawn | - | - |
| S3-235098 | Reply LS on Retrieving keys for decryption of protected IEs for U2N relay | Beijing Xiaomi Mobile Software | approved | S3-234904 | - |
| S3-235099 | Reply LS on Authentication Result Removal | Ericsson | approved | S3-234793 | - |
| S3-235100 | Updates to Security for Selective SCG Activation | Intel | approved | S3-234666 | - |
| S3-235101 | LS reply for Security for AI ML management capabilities | Nokia, Nokia Shanghai Bell | approved | S3-234849 | - |
| S3-235102 | LS reply for LS on QMC support in RRC\_IDLE and RRC\_INACTIVE | Nokia, Nokia Shanghai Bell | approved | S3-234852 | - |
| S3-235103 | Study on Security Aspects of 5G Satellite Access Phase 2 | CATT, Nokia, Xiaomi, CAICT, China Mobile, China Unicom, ZTE, Deutsche Telekom, Thales, China Telecommunications, Samsung, Sectra Communications | agreed | S3-234570 | - |
| S3-235104 | Detailed functional security model description for support of RNAA | Nokia, Nokia Shanghai Bell | agreed | S3-234868 | - |
| S3-235105 | New SID on security enhancement for mobility over non-3GPP access to avoid full primary authentication | Nokia, Nokia Shanghai Bell, CableLabs, Charter Communications, Broadcom, Lenovo, Xiaomi, ChinaMobile, Google, ZTE, Apple Keysight Technologies, LGE, Rogers Communications, Philips International B.V., IIT Delhi, Intel Corporation (UK) Ltd | agreed | S3-234563 | - |
| S3-235106 | 5MBS Annex W.4.2 | Ericsson | agreed | S3-234838 | - |
| S3-235107 | 5MBS Annex W.4.2 | Ericsson | agreed | S3-234850 | - |
| S3-235108 | Clarification on SCAS Definitions and abbreviations | T-Mobile USA Inc.T-Mobile US, Deutsche Telekom, ZTE Corporation, BSI, Nokia, Ericson, Huawei, Telus, MITRE Corporation | agreed | S3-234412 | - |
| S3-235109 | Reply LS on NSWO support in SNPN using CH AAA server | CableLabs | approved | S3-234572 | - |
| S3-235110 | LS on Model Sharing With MTLF | Ericsson | approved | S3-234820 | - |
| S3-235111 | Clarification for CAPIF-8 | Xiaomi,Nokia, Nokia Shanghai Bell | agreed | S3-234907 | - |
| S3-235112 | DP on Educational Paper N32 connection establishment for bilateral TLS | Nokia, Nokia Shanghai Bell | noted | S3-234861 | - |
| S3-235113 | Correction on authentication and authorization for RNAA | Huawei, HiSilicon,Nokia, Nokia Shanghai Bell | agreed | S3-234618 | - |
| S3-235114 | Resolve EN related to authorization flow | Xiaomi,Nokia, Nokia Shanghai Bell | agreed | S3-234908 | - |
| S3-235115 | Access token profile for RNAA | Huawei, HiSilicon,Nokia, Nokia Shanghai Bell | agreed | S3-234620 | - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S3-234400 | 06/11/2023 15:12:55 | approved |
| S3-234401 | 06/11/2023 08:18:36 | revised |
| S3-234402 | 10/11/2023 13:26:54 | noted |
| S3-234403 | 06/11/2023 15:13:41 | revised |
| S3-234404 | 10/11/2023 13:50:49 | noted |
| S3-234405 | 10/11/2023 13:27:02 | noted |
| S3-234411 | 07/11/2023 15:11:01 | agreed |
| S3-234412 | 07/11/2023 15:15:48 | noted |
| S3-234412 | 10/11/2023 10:27:58 | revised |
| S3-234413 | 05/11/2023 17:26:47 | revised |
| S3-234414 | 05/11/2023 17:27:04 | revised |
| S3-234415 | 05/11/2023 17:27:15 | revised |
| S3-234416 | 10/11/2023 09:00:02 | noted |
| S3-234417 | 08/11/2023 09:27:17 | noted |
| S3-234417 | 09/11/2023 16:20:32 | revised |
| S3-234418 | 10/11/2023 09:02:02 | noted |
| S3-234419 | 07/11/2023 14:02:56 | available |
| S3-234420 | 07/11/2023 17:08:05 | noted |
| S3-234421 | 07/11/2023 17:13:33 | revised |
| S3-234422 | 07/11/2023 15:49:20 | agreed |
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| S3-234424 | 09/11/2023 15:20:45 | noted |
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| S3-234426 | 09/11/2023 15:20:50 | noted |
| S3-234427 | 09/11/2023 15:20:54 | noted |
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| S3-234431 | 09/11/2023 15:21:00 | noted |
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| S3-234436 | 10/11/2023 10:29:41 | approved |
| S3-234437 | 08/11/2023 11:39:06 | revised |
| S3-234438 | 07/11/2023 15:40:13 | noted |
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| S3-234567 | 03/11/2023 14:18:39 | withdrawn |
| S3-234568 | 08/11/2023 08:32:50 | noted |
| S3-234569 | 08/11/2023 08:32:56 | noted |
| S3-234570 | 10/11/2023 08:41:39 | revised |
| S3-234571 | 09/11/2023 13:13:08 | revised |
| S3-234572 | 10/11/2023 10:37:02 | revised |
| S3-234573 | 10/11/2023 08:42:42 | noted |
| S3-234574 | 09/11/2023 16:10:28 | revised |
| S3-234575 | 07/11/2023 14:17:52 | revised |
| S3-234576 | 10/11/2023 09:11:26 | noted |
| S3-234577 | 08/11/2023 11:32:02 | revised |
| S3-234578 | 10/11/2023 09:11:41 | noted |
| S3-234579 | 10/11/2023 09:11:56 | noted |
| S3-234580 | 07/11/2023 09:17:38 | agreed |
| S3-234581 | 07/11/2023 09:18:06 | agreed |
| S3-234582 | 09/11/2023 13:48:42 | available |
| S3-234583 | 09/11/2023 13:49:18 | revised |
| S3-234584 | 07/11/2023 09:15:22 | revised |
| S3-234585 | 09/11/2023 14:24:16 | available |
| S3-234586 | 09/11/2023 15:12:57 | available |
| S3-234587 | 06/11/2023 15:30:34 | available |
| S3-234589 | 09/11/2023 14:00:40 | available |
| S3-234590 | 10/11/2023 10:53:10 | available |
| S3-234591 | 09/11/2023 14:02:08 | revised |
| S3-234592 | 09/11/2023 14:02:13 | revised |
| S3-234593 | 06/11/2023 17:36:21 | available |
| S3-234594 | 10/11/2023 10:53:36 | agreed |
| S3-234595 | 06/11/2023 17:35:43 | available |
| S3-234596 | 07/11/2023 13:24:15 | available |
| S3-234596 | 07/11/2023 13:25:35 | revised |
| S3-234597 | 07/11/2023 13:30:04 | revised |
| S3-234598 | 07/11/2023 13:33:49 | available |
| S3-234599 | 09/11/2023 14:11:30 | noted |
| S3-234600 | 09/11/2023 14:11:32 | available |
| S3-234600 | 09/11/2023 14:11:37 | not pursued |
| S3-234600 | 09/11/2023 14:12:05 | available |
| S3-234601 | 10/11/2023 09:12:08 | noted |
| S3-234602 | 10/11/2023 09:12:28 | noted |
| S3-234603 | 09/11/2023 17:16:48 | noted |
| S3-234604 | 09/11/2023 17:16:37 | noted |
| S3-234605 | 09/11/2023 14:10:43 | available |
| S3-234606 | 09/11/2023 13:30:08 | available |
| S3-234607 | 07/11/2023 17:39:03 | noted |
| S3-234608 | 07/11/2023 17:44:20 | available |
| S3-234609 | 07/11/2023 17:44:17 | available |
| S3-234610 | 10/11/2023 08:18:17 | noted |
| S3-234611 | 07/11/2023 09:04:53 | revised |
| S3-234612 | 07/11/2023 09:05:08 | revised |
| S3-234613 | 06/11/2023 10:35:07 | revised |
| S3-234615 | 09/11/2023 09:17:10 | revised |
| S3-234616 | 10/11/2023 13:16:21 | available |
| S3-234617 | 10/11/2023 13:16:27 | available |
| S3-234618 | 10/11/2023 13:18:21 | revised |
| S3-234619 | 10/11/2023 13:19:44 | available |
| S3-234620 | 10/11/2023 13:20:33 | revised |
| S3-234621 | 10/11/2023 13:21:19 | available |
| S3-234622 | 10/11/2023 13:21:23 | available |
| S3-234623 | 10/11/2023 09:12:36 | noted |
| S3-234624 | 09/11/2023 17:28:58 | revised |
| S3-234625 | 07/11/2023 13:04:11 | agreed |
| S3-234626 | 07/11/2023 08:20:20 | noted |
| S3-234627 | 10/11/2023 10:40:52 | available |
| S3-234628 | 09/11/2023 10:31:06 | noted |
| S3-234629 | 09/11/2023 10:31:48 | available |
| S3-234630 | 09/11/2023 10:31:51 | available |
| S3-234631 | 07/11/2023 09:29:12 | available |
| S3-234631 | 07/11/2023 09:31:16 | merged |
| S3-234631 | 10/11/2023 10:41:46 | available |
| S3-234632 | 10/11/2023 10:41:54 | available |
| S3-234633 | 07/11/2023 09:29:13 | available |
| S3-234633 | 07/11/2023 09:31:18 | merged |
| S3-234633 | 10/11/2023 10:41:49 | available |
| S3-234634 | 10/11/2023 09:14:29 | noted |
| S3-234635 | 10/11/2023 09:14:57 | noted |
| S3-234636 | 09/11/2023 13:43:16 | available |
| S3-234637 | 10/11/2023 10:35:24 | available |
| S3-234639 | 07/11/2023 13:10:17 | agreed |
| S3-234640 | 07/11/2023 13:10:59 | agreed |
| S3-234641 | 06/11/2023 15:35:12 | available |
| S3-234642 | 06/11/2023 15:48:47 | agreed |
| S3-234643 | 06/11/2023 15:48:48 | agreed |
| S3-234644 | 09/11/2023 13:29:31 | agreed |
| S3-234645 | 09/11/2023 13:29:32 | agreed |
| S3-234646 | 06/11/2023 11:00:12 | revised |
| S3-234647 | 10/11/2023 13:12:58 | noted |
| S3-234648 | 10/11/2023 08:07:28 | available |
| S3-234649 | 10/11/2023 13:12:58 | noted |
| S3-234650 | 07/11/2023 14:23:13 | agreed |
| S3-234651 | 07/11/2023 14:23:14 | agreed |
| S3-234652 | 09/11/2023 14:00:05 | available |
| S3-234653 | 10/11/2023 10:39:59 | available |
| S3-234654 | 10/11/2023 11:02:27 | available |
| S3-234655 | 07/11/2023 13:33:37 | revised |
| S3-234656 | 08/11/2023 13:12:09 | available |
| S3-234657 | 10/11/2023 09:14:34 | noted |
| S3-234658 | 08/11/2023 13:10:46 | noted |
| S3-234659 | 06/11/2023 10:41:55 | agreed |
| S3-234660 | 06/11/2023 10:41:56 | agreed |
| S3-234661 | 06/11/2023 10:41:58 | agreed |
| S3-234662 | 06/11/2023 10:42:00 | agreed |
| S3-234663 | 10/11/2023 08:43:39 | noted |
| S3-234664 | 07/11/2023 11:03:58 | available |
| S3-234665 | 09/11/2023 13:51:25 | available |
| S3-234665 | 09/11/2023 13:51:27 | noted |
| S3-234666 | 10/11/2023 08:06:23 | revised |
| S3-234667 | 09/11/2023 15:13:00 | available |
| S3-234668 | 10/11/2023 09:15:28 | noted |
| S3-234669 | 09/11/2023 14:25:32 | available |
| S3-234670 | 08/11/2023 13:11:13 | revised |
| S3-234671 | 08/11/2023 15:53:22 | withdrawn |
| S3-234672 | 10/11/2023 09:15:14 | noted |
| S3-234673 | 10/11/2023 09:15:44 | noted |
| S3-234674 | 07/11/2023 15:53:09 | agreed |
| S3-234675 | 07/11/2023 15:53:35 | approved |
| S3-234676 | 07/11/2023 15:54:43 | approved |
| S3-234677 | 10/11/2023 08:55:30 | noted |
| S3-234678 | 10/11/2023 09:16:35 | noted |
| S3-234679 | 09/11/2023 17:18:58 | revised |
| S3-234679 | 10/11/2023 10:21:28 | noted |
| S3-234680 | 07/11/2023 13:35:40 | available |
| S3-234681 | 09/11/2023 09:32:28 | revised |
| S3-234682 | 10/11/2023 08:10:03 | noted |
| S3-234683 | 06/11/2023 11:00:43 | available |
| S3-234684 | 07/11/2023 11:26:55 | noted |
| S3-234685 | 07/11/2023 11:26:51 | available |
| S3-234686 | 09/11/2023 13:51:30 | available |
| S3-234687 | 07/11/2023 10:58:11 | noted |
| S3-234688 | 06/11/2023 15:53:45 | revised |
| S3-234689 | 10/11/2023 09:18:40 | noted |
| S3-234690 | 09/11/2023 17:21:18 | revised |
| S3-234690 | 10/11/2023 09:22:08 | noted |
| S3-234691 | 09/11/2023 17:22:50 | noted |
| S3-234692 | 06/11/2023 09:32:35 | revised |
| S3-234693 | 10/11/2023 08:08:22 | noted |
| S3-234694 | 09/11/2023 09:16:09 | revised |
| S3-234695 | 10/11/2023 08:55:39 | noted |
| S3-234696 | 10/11/2023 11:01:19 | available |
| S3-234697 | 10/11/2023 08:44:10 | noted |
| S3-234698 | 08/11/2023 16:34:48 | revised |
| S3-234699 | 08/11/2023 16:35:01 | revised |
| S3-234700 | 06/11/2023 15:27:20 | revised |
| S3-234701 | 07/11/2023 17:14:06 | noted |
| S3-234702 | 07/11/2023 17:14:04 | available |
| S3-234704 | 09/11/2023 14:15:34 | available |
| S3-234708 | 08/11/2023 13:09:55 | revised |
| S3-234709 | 10/11/2023 10:32:57 | available |
| S3-234710 | 06/11/2023 15:50:02 | agreed |
| S3-234711 | 09/11/2023 11:23:25 | available |
| S3-234712 | 09/11/2023 17:33:09 | available |
| S3-234715 | 07/11/2023 09:22:29 | revised |
| S3-234716 | 10/11/2023 11:12:03 | available |
| S3-234717 | 07/11/2023 10:37:57 | agreed |
| S3-234718 | 06/11/2023 15:07:21 | agreed |
| S3-234719 | 06/11/2023 15:07:22 | agreed |
| S3-234720 | 06/11/2023 15:07:23 | agreed |
| S3-234721 | 09/11/2023 11:09:53 | agreed |
| S3-234722 | 09/11/2023 11:09:54 | agreed |
| S3-234723 | 06/11/2023 15:07:49 | agreed |
| S3-234725 | 09/11/2023 17:23:32 | revised |
| S3-234726 | 09/11/2023 17:30:18 | revised |
| S3-234726 | 10/11/2023 10:15:43 | noted |
| S3-234727 | 08/11/2023 16:41:32 | available |
| S3-234728 | 08/11/2023 16:32:26 | available |
| S3-234729 | 09/11/2023 17:33:13 | available |
| S3-234731 | 06/11/2023 15:36:37 | agreed |
| S3-234732 | 08/11/2023 16:32:29 | available |
| S3-234733 | 07/11/2023 10:18:28 | noted |
| S3-234734 | 07/11/2023 10:17:52 | available |
| S3-234735 | 07/11/2023 10:34:05 | noted |
| S3-234736 | 09/11/2023 13:47:12 | available |
| S3-234737 | 10/11/2023 11:01:28 | noted |
| S3-234738 | 07/11/2023 15:41:20 | agreed |
| S3-234739 | 07/11/2023 15:42:01 | agreed |
| S3-234740 | 09/11/2023 17:30:24 | noted |
| S3-234745 | 10/11/2023 08:18:18 | noted |
| S3-234746 | 07/11/2023 09:05:32 | available |
| S3-234747 | 07/11/2023 09:05:38 | available |
| S3-234748 | 06/11/2023 08:58:33 | noted |
| S3-234749 | 06/11/2023 08:57:29 | noted |
| S3-234751 | 06/11/2023 13:56:20 | available |
| S3-234752 | 07/11/2023 10:53:45 | available |
| S3-234753 | 07/11/2023 10:53:56 | available |
| S3-234754 | 07/11/2023 11:08:55 | available |
| S3-234755 | 07/11/2023 11:10:11 | available |
| S3-234756 | 10/11/2023 10:40:05 | available |
| S3-234757 | 07/11/2023 08:29:25 | revised |
| S3-234758 | 07/11/2023 08:33:59 | agreed |
| S3-234759 | 07/11/2023 14:03:24 | agreed |
| S3-234760 | 09/11/2023 10:56:16 | available |
| S3-234761 | 07/11/2023 08:37:01 | revised |
| S3-234762 | 07/11/2023 08:40:31 | agreed |
| S3-234763 | 10/11/2023 08:55:55 | noted |
| S3-234764 | 09/11/2023 09:21:22 | agreed |
| S3-234765 | 10/11/2023 08:56:39 | noted |
| S3-234766 | 09/11/2023 14:28:15 | available |
| S3-234767 | 09/11/2023 09:16:46 | available |
| S3-234768 | 09/11/2023 09:16:50 | available |
| S3-234769 | 09/11/2023 09:21:01 | available |
| S3-234770 | 09/11/2023 09:19:02 | available |
| S3-234771 | 06/11/2023 13:23:30 | noted |
| S3-234772 | 09/11/2023 08:48:23 | revised |
| S3-234773 | 10/11/2023 10:16:04 | noted |
| S3-234774 | 09/11/2023 17:25:20 | noted |
| S3-234775 | 09/11/2023 13:06:35 | noted |
| S3-234776 | 09/11/2023 13:28:53 | available |
| S3-234777 | 09/11/2023 13:28:56 | available |
| S3-234778 | 09/11/2023 10:31:59 | noted |
| S3-234779 | 09/11/2023 08:49:17 | revised |
| S3-234780 | 06/11/2023 11:10:12 | noted |
| S3-234781 | 09/11/2023 08:49:29 | revised |
| S3-234782 | 09/11/2023 08:49:40 | revised |
| S3-234783 | 06/11/2023 13:23:36 | noted |
| S3-234784 | 09/11/2023 08:49:53 | revised |
| S3-234785 | 09/11/2023 08:50:07 | revised |
| S3-234786 | 09/11/2023 08:48:49 | revised |
| S3-234787 | 09/11/2023 08:48:55 | revised |
| S3-234788 | 09/11/2023 13:25:07 | available |
| S3-234789 | 07/11/2023 08:55:49 | revised |
| S3-234790 | 10/11/2023 13:23:36 | available |
| S3-234791 | 10/11/2023 08:56:46 | noted |
| S3-234792 | 06/11/2023 10:44:56 | noted |
| S3-234793 | 10/11/2023 07:45:00 | revised |
| S3-234794 | 07/11/2023 13:34:04 | available |
| S3-234795 | 07/11/2023 13:30:22 | available |
| S3-234796 | 07/11/2023 16:35:21 | agreed |
| S3-234797 | 07/11/2023 16:35:44 | agreed |
| S3-234798 | 07/11/2023 16:36:03 | agreed |
| S3-234799 | 07/11/2023 16:36:13 | agreed |
| S3-234800 | 07/11/2023 16:36:38 | agreed |
| S3-234801 | 07/11/2023 16:36:57 | agreed |
| S3-234802 | 09/11/2023 15:45:51 | revised |
| S3-234803 | 10/11/2023 10:16:28 | noted |
| S3-234804 | 09/11/2023 15:27:14 | noted |
| S3-234805 | 10/11/2023 08:57:24 | available |
| S3-234806 | 10/11/2023 08:58:21 | available |
| S3-234807 | 07/11/2023 09:22:35 | available |
| S3-234808 | 07/11/2023 15:56:26 | approved |
| S3-234809 | 10/11/2023 08:58:25 | available |
| S3-234810 | 09/11/2023 16:14:25 | revised |
| S3-234810 | 10/11/2023 08:50:02 | noted |
| S3-234811 | 07/11/2023 10:31:35 | noted |
| S3-234812 | 09/11/2023 13:43:10 | available |
| S3-234813 | 10/11/2023 08:22:15 | noted |
| S3-234814 | 07/11/2023 11:08:35 | agreed |
| S3-234815 | 07/11/2023 11:12:46 | revised |
| S3-234816 | 07/11/2023 11:03:42 | available |
| S3-234817 | 09/11/2023 13:54:45 | available |
| S3-234818 | 07/11/2023 11:17:23 | agreed |
| S3-234819 | 07/11/2023 11:23:08 | available |
| S3-234820 | 10/11/2023 10:45:54 | revised |
| S3-234821 | 07/11/2023 16:38:12 | agreed |
| S3-234822 | 07/11/2023 16:38:13 | agreed |
| S3-234823 | 07/11/2023 16:40:38 | noted |
| S3-234824 | 07/11/2023 16:40:40 | agreed |
| S3-234825 | 07/11/2023 16:40:41 | agreed |
| S3-234826 | 09/11/2023 09:16:58 | available |
| S3-234827 | 08/11/2023 08:45:44 | noted |
| S3-234828 | 07/11/2023 10:44:17 | revised |
| S3-234829 | 07/11/2023 10:44:22 | revised |
| S3-234830 | 10/11/2023 11:01:32 | noted |
| S3-234831 | 10/11/2023 11:01:54 | available |
| S3-234832 | 10/11/2023 13:16:43 | available |
| S3-234833 | 09/11/2023 09:19:53 | available |
| S3-234834 | 10/11/2023 08:58:51 | available |
| S3-234835 | 09/11/2023 16:08:34 | revised |
| S3-234835 | 10/11/2023 08:50:25 | noted |
| S3-234836 | 06/11/2023 11:00:49 | available |
| S3-234837 | 08/11/2023 13:11:53 | noted |
| S3-234838 | 10/11/2023 10:22:36 | revised |
| S3-234839 | 09/11/2023 11:20:25 | available |
| S3-234840 | 06/11/2023 08:58:39 | noted |
| S3-234841 | 06/11/2023 15:27:24 | available |
| S3-234843 | 09/11/2023 11:23:32 | available |
| S3-234846 | 06/11/2023 08:57:31 | noted |
| S3-234849 | 10/11/2023 08:27:58 | revised |
| S3-234850 | 10/11/2023 10:22:41 | revised |
| S3-234851 | 06/11/2023 10:56:23 | revised |
| S3-234852 | 10/11/2023 08:33:43 | revised |
| S3-234853 | 08/11/2023 08:45:40 | noted |
| S3-234856 | 06/11/2023 16:13:38 | available |
| S3-234857 | 09/11/2023 14:23:35 | revised |
| S3-234858 | 07/11/2023 08:33:47 | available |
| S3-234859 | 07/11/2023 08:29:55 | available |
| S3-234860 | 09/11/2023 15:42:24 | revised |
| S3-234861 | 09/11/2023 09:14:43 | noted |
| S3-234861 | 10/11/2023 11:05:50 | revised |
| S3-234862 | 09/11/2023 09:14:30 | revised |
| S3-234863 | 09/11/2023 09:16:40 | available |
| S3-234864 | 09/11/2023 09:19:26 | available |
| S3-234865 | 09/11/2023 09:02:27 | available |
| S3-234866 | 09/11/2023 09:02:15 | revised |
| S3-234867 | 09/11/2023 15:13:58 | noted |
| S3-234868 | 10/11/2023 08:51:56 | revised |
| S3-234869 | 07/11/2023 17:44:31 | noted |
| S3-234870 | 07/11/2023 17:44:13 | available |
| S3-234871 | 07/11/2023 17:37:30 | revised |
| S3-234872 | 10/11/2023 11:17:33 | available |
| S3-234873 | 09/11/2023 17:27:37 | noted |
| S3-234874 | 09/11/2023 17:26:13 | noted |
| S3-234875 | 06/11/2023 14:07:20 | revised |
| S3-234876 | 09/11/2023 17:27:10 | noted |
| S3-234877 | 09/11/2023 17:27:05 | revised |
| S3-234877 | 10/11/2023 10:17:33 | noted |
| S3-234878 | 06/11/2023 09:20:11 | revised |
| S3-234879 | 07/11/2023 08:46:57 | revised |
| S3-234880 | 07/11/2023 09:16:43 | agreed |
| S3-234881 | 07/11/2023 09:17:08 | agreed |
| S3-234882 | 07/11/2023 09:22:40 | available |
| S3-234882 | 07/11/2023 17:54:23 | merged |
| S3-234882 | 07/11/2023 17:54:33 | revised |
| S3-234883 | 09/11/2023 10:55:28 | revised |
| S3-234884 | 07/11/2023 09:23:57 | agreed |
| S3-234885 | 07/11/2023 09:28:08 | revised |
| S3-234886 | 07/11/2023 10:06:15 | revised |
| S3-234887 | 07/11/2023 10:17:43 | revised |
| S3-234888 | 09/11/2023 13:34:26 | available |
| S3-234889 | 07/11/2023 10:35:51 | revised |
| S3-234890 | 07/11/2023 10:37:58 | available |
| S3-234891 | 07/11/2023 10:39:56 | available |
| S3-234892 | 07/11/2023 10:41:37 | available |
| S3-234893 | 10/11/2023 10:43:16 | available |
| S3-234894 | 09/11/2023 13:42:50 | revised |
| S3-234895 | 06/11/2023 15:53:54 | available |
| S3-234896 | 06/11/2023 15:48:07 | available |
| S3-234897 | 08/11/2023 16:39:12 | available |
| S3-234898 | 06/11/2023 16:03:40 | available |
| S3-234899 | 06/11/2023 16:03:16 | available |
| S3-234900 | 07/11/2023 09:29:18 | available |
| S3-234900 | 07/11/2023 09:31:19 | merged |
| S3-234900 | 10/11/2023 10:42:06 | available |
| S3-234901 | 07/11/2023 09:24:28 | agreed |
| S3-234902 | 09/11/2023 13:47:37 | available |
| S3-234903 | 06/11/2023 11:01:10 | available |
| S3-234904 | 09/11/2023 17:32:42 | revised |
| S3-234905 | 06/11/2023 09:32:43 | available |
| S3-234906 | 06/11/2023 10:35:49 | available |
| S3-234907 | 10/11/2023 10:50:39 | revised |
| S3-234908 | 10/11/2023 13:19:31 | revised |
| S3-234909 | 10/11/2023 13:24:25 | available |
| S3-234910 | 10/11/2023 13:16:46 | available |
| S3-234911 | 10/11/2023 13:16:50 | available |
| S3-234912 | 10/11/2023 10:53:50 | available |
| S3-234913 | 10/11/2023 10:54:02 | available |
| S3-234914 | 10/11/2023 08:53:02 | noted |
| S3-234915 | 07/11/2023 08:47:13 | revised |
| S3-234916 | 07/11/2023 08:47:16 | revised |
| S3-234920 | 09/11/2023 14:27:06 | available |
| S3-234923 | 06/11/2023 16:01:03 | revised |
| S3-234925 | 09/11/2023 14:16:32 | available |
| S3-234926 | 09/11/2023 15:15:03 | noted |
| S3-234927 | 09/11/2023 14:27:09 | available |
| S3-234928 | 06/11/2023 15:15:48 | agreed |
| S3-234931 | 06/11/2023 15:15:49 | agreed |
| S3-234933 | 09/11/2023 14:17:17 | available |
| S3-234935 | 06/11/2023 15:15:50 | agreed |
| S3-234936 | 09/11/2023 14:19:20 | available |
| S3-234937 | 10/11/2023 08:17:37 | noted |
| S3-234938 | 09/11/2023 14:19:22 | available |
| S3-234939 | 09/11/2023 11:14:15 | available |
| S3-234940 | 10/11/2023 08:36:38 | noted |
| S3-234941 | 06/11/2023 16:02:23 | revised |
| S3-234942 | 06/11/2023 15:50:09 | agreed |
| S3-234943 | 09/11/2023 11:12:59 | available |
| S3-234944 | 07/11/2023 09:06:00 | available |
| S3-234946 | 09/11/2023 08:41:54 | revised |
| S3-234947 | 09/11/2023 11:13:01 | available |
| S3-234948 | 09/11/2023 10:32:31 | revised |
| S3-234949 | 07/11/2023 09:13:37 | agreed |
| S3-234950 | 07/11/2023 15:46:44 | agreed |
| S3-234951 | 07/11/2023 15:46:42 | agreed |
| S3-234952 | 07/11/2023 15:46:41 | agreed |
| S3-234953 | 07/11/2023 15:46:40 | agreed |
| S3-234954 | 07/11/2023 15:46:38 | agreed |
| S3-234954 | 07/11/2023 15:50:44 | revised |
| S3-234955 | 07/11/2023 15:46:27 | agreed |
| S3-234956 | 07/11/2023 15:46:36 | available |
| S3-234957 | 07/11/2023 14:31:49 | available |
| S3-234959 | 07/11/2023 14:31:57 | available |
| S3-234960 | 07/11/2023 11:10:38 | agreed |
| S3-234961 | 10/11/2023 10:50:44 | available |
| S3-234963 | 06/11/2023 10:26:34 | revised |
| S3-234964 | 06/11/2023 10:26:40 | revised |
| S3-234965 | 06/11/2023 10:26:45 | revised |
| S3-234966 | 06/11/2023 10:26:49 | revised |
| S3-234967 | 06/11/2023 10:26:59 | revised |
| S3-234969 | 06/11/2023 10:27:05 | revised |
| S3-234970 | 06/11/2023 10:28:36 | revised |
| S3-234971 | 06/11/2023 10:28:47 | revised |
| S3-234972 | 06/11/2023 10:29:03 | revised |
| S3-234973 | 09/11/2023 09:16:36 | available |
| S3-234974 | 06/11/2023 10:29:15 | revised |
| S3-234975 | 06/11/2023 10:15:18 | noted |
| S3-234976 | 06/11/2023 14:26:02 | noted |
| S3-234977 | 06/11/2023 14:26:14 | noted |
| S3-234978 | 06/11/2023 09:02:23 | postponed |
| S3-234979 | 09/11/2023 08:55:07 | available |
| S3-234980 | 10/11/2023 08:36:14 | noted |
| S3-234981 | 09/11/2023 08:14:15 | noted |
| S3-234982 | 07/11/2023 15:08:54 | agreed |
| S3-234983 | 07/11/2023 15:08:51 | agreed |
| S3-234984 | 07/11/2023 15:08:42 | agreed |
| S3-234985 | 24/11/2023 17:29:07 | noted |
| S3-234986 | 06/11/2023 08:18:49 | approved |
| S3-234987 | 10/11/2023 08:27:08 | approved |
| S3-234988 | 10/11/2023 08:14:40 | withdrawn |
| S3-234989 | 09/11/2023 08:57:48 | postponed |
| S3-234990 | 09/11/2023 08:57:49 | postponed |
| S3-234991 | 10/11/2023 08:11:32 | approved |
| S3-234992 | 09/11/2023 10:59:21 | approved |
| S3-234993 | 10/11/2023 08:25:19 | agreed |
| S3-234994 | 10/11/2023 08:25:21 | agreed |
| S3-234995 | 10/11/2023 08:25:22 | agreed |
| S3-234996 | 10/11/2023 08:25:59 | agreed |
| S3-234997 | 10/11/2023 08:26:02 | agreed |
| S3-234998 | 10/11/2023 08:26:03 | agreed |
| S3-234999 | 10/11/2023 08:26:05 | agreed |
| S3-235000 | 10/11/2023 08:26:07 | agreed |
| S3-235001 | 10/11/2023 08:26:09 | agreed |
| S3-235002 | 10/11/2023 08:26:15 | agreed |
| S3-235003 | 10/11/2023 08:14:11 | approved |
| S3-235004 | 10/11/2023 08:19:18 | approved |
| S3-235005 | 09/11/2023 10:26:19 | approved |
| S3-235006 | 09/11/2023 10:42:12 | approved |
| S3-235007 | 10/11/2023 08:38:50 | approved |
| S3-235008 | 10/11/2023 08:31:29 | approved |
| S3-235009 | 09/11/2023 10:44:20 | approved |
| S3-235010 | 10/11/2023 10:31:10 | agreed |
| S3-235011 | 10/11/2023 10:32:24 | agreed |
| S3-235012 | 10/11/2023 10:32:37 | withdrawn |
| S3-235013 | 10/11/2023 10:33:12 | withdrawn |
| S3-235014 | 09/11/2023 13:08:46 | agreed |
| S3-235015 | 09/11/2023 13:08:50 | agreed |
| S3-235016 | 06/11/2023 17:24:44 | agreed |
| S3-235017 | 06/11/2023 17:24:45 | agreed |
| S3-235018 | 07/11/2023 08:30:18 | agreed |
| S3-235019 | 07/11/2023 08:37:12 | agreed |
| S3-235020 | 07/11/2023 14:21:01 | agreed |
| S3-235021 | 07/11/2023 14:22:10 | agreed |
| S3-235022 | 07/11/2023 14:22:18 | agreed |
| S3-235023 | 07/11/2023 08:56:08 | agreed |
| S3-235024 | 09/11/2023 13:28:11 | withdrawn |
| S3-235025 | 09/11/2023 13:28:19 | withdrawn |
| S3-235026 | 07/11/2023 09:15:34 | agreed |
| S3-235027 | 09/11/2023 13:31:43 | agreed |
| S3-235028 | 09/11/2023 13:32:47 | agreed |
| S3-235029 | 09/11/2023 13:34:18 | agreed |
| S3-235030 | 09/11/2023 13:44:49 | withdrawn |
| S3-235031 | 07/11/2023 10:35:57 | agreed |
| S3-235032 | 10/11/2023 10:56:13 | agreed |
| S3-235033 | 10/11/2023 10:56:20 | agreed |
| S3-235034 | 07/11/2023 10:54:17 | agreed |
| S3-235035 | 07/11/2023 10:54:15 | agreed |
| S3-235036 | 10/11/2023 10:44:09 | agreed |
| S3-235037 | 10/11/2023 10:44:53 | agreed |
| S3-235038 | 09/11/2023 14:13:00 | agreed |
| S3-235039 | 10/11/2023 10:54:44 | withdrawn |
| S3-235040 | 10/11/2023 13:26:39 | agreed |
| S3-235041 | 09/11/2023 14:14:15 | withdrawn |
| S3-235042 | 07/11/2023 14:18:06 | agreed |
| S3-235043 | 07/11/2023 15:50:47 | agreed |
| S3-235044 | 09/11/2023 15:16:32 | approved |
| S3-235045 | 09/11/2023 15:14:53 | agreed |
| S3-235046 | 07/11/2023 17:03:56 | agreed |
| S3-235047 | 10/11/2023 11:02:17 | withdrawn |
| S3-235048 | 10/11/2023 10:57:48 | agreed |
| S3-235049 | 09/11/2023 11:07:10 | agreed |
| S3-235050 | 10/11/2023 10:30:12 | agreed |
| S3-235051 | 10/11/2023 08:04:30 | approved |
| S3-235052 | 09/11/2023 09:25:58 | agreed |
| S3-235053 | 09/11/2023 09:26:12 | approved |
| S3-235054 | 08/11/2023 16:35:45 | agreed |
| S3-235055 | 08/11/2023 16:35:46 | agreed |
| S3-235056 | 09/11/2023 11:20:05 | agreed |
| S3-235057 | 09/11/2023 08:41:55 | agreed |
| S3-235058 | 09/11/2023 14:18:02 | agreed |
| S3-235059 | 10/11/2023 13:17:41 | agreed |
| S3-235060 | 10/11/2023 13:26:03 | withdrawn |
| S3-235061 | 09/11/2023 13:24:04 | withdrawn |
| S3-235062 | 09/11/2023 13:23:40 | withdrawn |
| S3-235063 | 09/11/2023 13:23:36 | withdrawn |
| S3-235064 | 10/11/2023 13:22:42 | withdrawn |
| S3-235065 | 10/11/2023 13:24:16 | withdrawn |
| S3-235066 | 09/11/2023 11:15:29 | agreed |
| S3-235067 | 10/11/2023 11:09:14 | approved |
| S3-235068 | 10/11/2023 08:37:44 | approved |
| S3-235069 | 10/11/2023 10:48:24 | agreed |
| S3-235070 | 10/11/2023 10:47:26 | withdrawn |
| S3-235071 | 10/11/2023 11:08:09 | approved |
| S3-235072 | 10/11/2023 09:21:00 | agreed |
| S3-235073 | 10/11/2023 11:09:53 | approved |
| S3-235074 | 10/11/2023 08:29:20 | approved |
| S3-235075 | 09/11/2023 10:55:50 | approved |
| S3-235076 | 10/11/2023 10:34:31 | approved |
| S3-235077 | 09/11/2023 13:13:10 | agreed |
| S3-235078 | 10/11/2023 11:10:52 | approved |
| S3-235079 | 09/11/2023 13:49:56 | agreed |
| S3-235080 | 09/11/2023 14:02:16 | agreed |
| S3-235081 | 09/11/2023 14:02:17 | agreed |
| S3-235082 | 10/11/2023 10:57:03 | agreed |
| S3-235083 | 10/11/2023 10:40:35 | withdrawn |
| S3-235084 | 10/11/2023 08:52:16 | agreed |
| S3-235085 | 10/11/2023 08:45:46 | agreed |
| S3-235086 | 10/11/2023 08:50:21 | withdrawn |
| S3-235087 | 10/11/2023 08:43:56 | agreed |
| S3-235088 | 10/11/2023 08:47:04 | agreed |
| S3-235088 | 10/11/2023 08:50:01 | withdrawn |
| S3-235089 | 10/11/2023 09:01:11 | agreed |
| S3-235090 | 10/11/2023 10:18:48 | agreed |
| S3-235091 | 10/11/2023 09:07:42 | available |
| S3-235091 | 10/11/2023 10:19:42 | agreed |
| S3-235092 | 10/11/2023 10:21:27 | noted |
| S3-235092 | 10/11/2023 13:59:37 | withdrawn |
| S3-235093 | 10/11/2023 09:22:13 | withdrawn |
| S3-235094 | 10/11/2023 09:23:00 | agreed |
| S3-235095 | 10/11/2023 10:17:38 | withdrawn |
| S3-235096 | 10/11/2023 09:14:14 | agreed |
| S3-235097 | 10/11/2023 10:15:43 | withdrawn |
| S3-235098 | 10/11/2023 08:12:53 | approved |
| S3-235099 | 10/11/2023 08:16:20 | approved |
| S3-235100 | 10/11/2023 08:06:24 | approved |
| S3-235101 | 10/11/2023 08:28:19 | approved |
| S3-235102 | 10/11/2023 08:33:58 | approved |
| S3-235103 | 10/11/2023 08:42:35 | agreed |
| S3-235104 | 10/11/2023 10:49:42 | agreed |
| S3-235105 | 10/11/2023 13:27:44 | agreed |
| S3-235106 | 10/11/2023 10:36:18 | agreed |
| S3-235107 | 10/11/2023 10:36:19 | agreed |
| S3-235108 | 10/11/2023 10:27:59 | agreed |
| S3-235109 | 10/11/2023 10:38:04 | approved |
| S3-235110 | 10/11/2023 10:46:33 | approved |
| S3-235111 | 10/11/2023 10:50:40 | agreed |
| S3-235112 | 10/11/2023 11:06:27 | noted |
| S3-235113 | 10/11/2023 13:18:32 | agreed |
| S3-235114 | 10/11/2023 13:20:15 | agreed |
| S3-235115 | 10/11/2023 13:20:55 | agreed |

## Annex B: List of change requests

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S3-234934 | Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure | BSI (DE) | 33.102 | 0283 | - | Rel-19 | F | TEI19 | revised |
| S3-234958 | Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure | BSI (DE) | 33.102 | 0283 | 1 | Rel-19 | F | TEI19 | revised |
| S3-234959 | Add the case of a failed AUTS verification in the HE/AuC to the re-synchronisation procedure | BSI (DE) | 33.102 | 0283 | 2 | Rel-19 | F | TEI19 | not pursued |
| S3-234411 | Clarification on SCAS Modal Text | T-Mobile USA Inc., Deutsche Telekom, ZTE Corporation, BSI, Nokia, Ericson, Huawei, Telus, MITRE Corporation | 33.117 | 0128 | - | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-234412 | Clarification on SCAS Definitions and abbreviations | T-Mobile USA Inc.T-Mobile US, Deutsche Telekom, ZTE Corporation, BSI, Nokia, Ericson, Huawei, Telus, MITRE Corporation | 33.117 | 0129 | - | Rel-18 | F | SCAS\_5G\_Ph3 | revised |
| S3-235108 | Clarification on SCAS Definitions and abbreviations | T-Mobile USA Inc.T-Mobile US, Deutsche Telekom, ZTE Corporation, BSI, Nokia, Ericson, Huawei, Telus, MITRE Corporation | 33.117 | 0129 | 1 | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-234422 | Evidence correction for 33.117 | Huawei, HiSilicon, Deutsche Telecom, T-mobile, ZTE, Nokia, Ericsson, China Mobile, Federal Office for Information Security (BSI), TELUS, MITRE | 33.117 | 0130 | - | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-234435 | Basic Editorial Updates to TS 33.117 | ZTE Corporation, Deutsche Telekom, T-Mobile USA, BSI, Huawei, Nokia, Ericsson, Telus, MITRE Corporation | 33.117 | 0131 | - | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-234439 | Disclaimer for Indirect Communication | Nokia, Nokia Shanghai Bell | 33.117 | 0132 | - | Rel-18 | B | SCAS\_5G\_Ph3 | revised |
| S3-235050 | Disclaimer for Indirect Communication | Nokia, Nokia Shanghai Bell | 33.117 | 0132 | 1 | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-235049 | Inconsistent use of terms | Nokia, Nokia Shanghai Bell, Deutsche Telekom, T-mobile, ZTE, Ericsson, BSI, Huawei, TELUS, MITRE Corporation | 33.117 | 0133 | - | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-234616 | Revocation procedures invoked by API invoker | Huawei, HiSilicon | 33.122 | 0037 | - | Rel-18 | F | SNAAPPY | not pursued |
| S3-234617 | Revocation procedure invoked by resource owner client | Huawei, HiSilicon | 33.122 | 0038 | - | Rel-18 | F | SNAAPPY | not pursued |
| S3-234618 | Correction on authentication and authorization for RNAA | Huawei, HiSilicon | 33.122 | 0039 | - | Rel-18 | F | SNAAPPY | revised |
| S3-235113 | Correction on authentication and authorization for RNAA | Huawei, HiSilicon,Nokia, Nokia Shanghai Bell | 33.122 | 0039 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-234619 | Security negotiation for RNAA | Huawei, HiSilicon | 33.122 | 0040 | - | Rel-18 | F | SNAAPPY | merged |
| S3-234620 | Access token profile for RNAA | Huawei, HiSilicon | 33.122 | 0041 | - | Rel-18 | F | SNAAPPY | revised |
| S3-235115 | Access token profile for RNAA | Huawei, HiSilicon,Nokia, Nokia Shanghai Bell | 33.122 | 0041 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-234621 | Obtaining Tokens Procedure for RNAA | Huawei, HiSilicon | 33.122 | 0042 | - | Rel-18 | F | SNAAPPY | merged |
| S3-234622 | Refreshing Token for RNAA | Huawei, HiSilicon | 33.122 | 0043 | - | Rel-18 | F | SNAAPPY | merged |
| S3-234784 | Identification of RNAA token | Ericsson | 33.122 | 0044 | - | Rel-18 | F | SNAAPPY | merged |
| S3-235064 | Identification of RNAA token | Ericsson | 33.122 | 0044 | 1 | Rel-18 | F | SNAAPPY | withdrawn |
| S3-234785 | Optimizations for accessing own resources | Ericsson | 33.122 | 0045 | - | Rel-18 | F | SNAAPPY | not pursued |
| S3-235065 | Optimizations for accessing own resources | Ericsson | 33.122 | 0045 | 1 | Rel-18 | F | SNAAPPY | withdrawn |
| S3-234786 | Clarification on resource owner ID | Ericsson | 33.122 | 0046 | - | Rel-18 | F | SNAAPPY | revised |
| S3-235059 | Clarification on resource owner ID | Ericsson | 33.122 | 0046 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-234787 | Clarification on the scope of the Rel-18 RNAA specification | Ericsson | 33.122 | 0047 | - | Rel-18 | F | SNAAPPY | not pursued |
| S3-235060 | Clarification on the scope of the Rel-18 RNAA specification | Ericsson | 33.122 | 0047 | 1 | Rel-18 | F | SNAAPPY | withdrawn |
| S3-234790 | Optimization in the authorization code flow usage | Ericsson | 33.122 | 0048 | - | Rel-18 | F | SNAAPPY | not pursued |
| S3-234832 | Revocation procedure for RNAA | Samsung | 33.122 | 0049 | - | Rel-18 | B | TEI18 | not pursued |
| S3-234868 | Detailed functional security model description for support of RNAA | Nokia, Nokia Shanghai Bell | 33.122 | 0050 | - | Rel-18 | F | SNAAPPY | revised |
| S3-235104 | Detailed functional security model description for support of RNAA | Nokia, Nokia Shanghai Bell | 33.122 | 0050 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-234907 | Clarification for CAPIF-8 | Xiaomi | 33.122 | 0051 | - | Rel-18 | F | SNAAPPY | revised |
| S3-235111 | Clarification for CAPIF-8 | Xiaomi,Nokia, Nokia Shanghai Bell | 33.122 | 0051 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-234908 | Resolve EN related to authorization flow | Xiaomi | 33.122 | 0052 | - | Rel-18 | F | SNAAPPY | revised |
| S3-235114 | Resolve EN related to authorization flow | Xiaomi,Nokia, Nokia Shanghai Bell | 33.122 | 0052 | 1 | Rel-18 | F | SNAAPPY | agreed |
| S3-234909 | Streamline the Editor's Notes for RNAA | Xiaomi | 33.122 | 0053 | - | Rel-18 | D | SNAAPPY | not pursued |
| S3-234910 | Update for authorization revocation procedure for RNAA | Xiaomi | 33.122 | 0054 | - | Rel-18 | F | SNAAPPY | not pursued |
| S3-234911 | Resolve EN related to API invoker ID and GPSI | Xiaomi | 33.122 | 0055 | - | Rel-18 | C | SNAAPPY | not pursued |
| S3-234945 | resolving RNA stage 2 editor's notes | NTT DOCOMO INC. | 33.122 | 0056 | - | Rel-18 | F | SNAAPPY | revised |
| S3-234961 | Resolving stage 2 editor's notes | NTT DOCOMO | 33.122 | 0056 | 1 | Rel-18 | F | SNAAPPY | not pursued |
| S3-234501 | [33.180] Clarification on SIP core access authentication | UK Home Office | 33.180 | 0209 | 1 | Rel-18 | F | MCXSec3 | agreed |
| S3-234669 | CR on Security vulnerability fix for use of AES-GCM and AES-GMAC in 33.203 | Apple | 33.203 | 0274 | - | Rel-18 | F | TEI18 | not pursued |
| S3-234580 | Allocate FC Value for 33.533 | ZTE | 33.220 | 0224 | - | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234661 | HTTP RFCs obsoleted by IETF RFC 9110 | Huawei, HiSilicon | 33.220 | 0225 | - | Rel-18 | F | TEI18 | agreed |
| S3-234705 | Updating the FC values | Qualcomm Incorporated | 33.220 | 0226 | - | Rel-17 | F | TEI17 | revised |
| S3-234936 | Updating the FC values | Qualcomm Incorporated | 33.220 | 0226 | 1 | Rel-17 | F | TEI17 | not pursued |
| S3-234706 | Updating the FC values | Qualcomm Incorporated | 33.220 | 0227 | - | Rel-18 | A | TEI17 | revised |
| S3-234938 | Updating the FC values | Qualcomm Incorporated | 33.220 | 0227 | 1 | Rel-18 | A | TEI17 | not pursued |
| S3-234606 | Direct C2 security for unicast | Huawei, HiSilicon | 33.256 | 0028 | - | Rel-18 | F | UAS\_Ph2 | not pursued |
| S3-234611 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | 33.256 | 0029 | - | Rel-17 | F | ID\_UAS | not pursued |
| S3-235024 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | 33.256 | 0029 | 1 | Rel-17 | F | ID\_UAS | withdrawn |
| S3-234612 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | 33.256 | 0030 | - | Rel-18 | A | ID\_UAS | not pursued |
| S3-235025 | Align UUAA with TS23.256 due to removal of uavAuthenticated IE | Huawei, HiSilicon | 33.256 | 0030 | 1 | Rel-18 | A | ID\_UAS | withdrawn |
| S3-234629 | Clarification related to reliable location | Huawei, HiSilicon | 33.256 | 0031 | - | Rel-17 | F | ID\_UAS | not pursued |
| S3-234630 | Clarification related to reliable location | Huawei, HiSilicon | 33.256 | 0032 | - | Rel-18 | A | ID\_UAS | not pursued |
| S3-234644 | Editorial changes and clarification about identity mapping R17 | Huawei, HiSilicon | 33.256 | 0033 | - | Rel-17 | F | ID\_UAS | agreed |
| S3-234645 | Editorial changes and clarification about identity mapping R17 | Huawei, HiSilicon | 33.256 | 0034 | - | Rel-18 | A | ID\_UAS | agreed |
| S3-234707 | Clarify the use of UUAA-MM for pairing authorisation | Qualcomm Incorporated | 33.256 | 0035 | - | Rel-18 | A | UAS\_Ph2 | revised |
| S3-234949 | Clarify the use of UUAA-MM for pairing authorisation | Qualcomm Incorporated | 33.256 | 0035 | 1 | Rel-18 | F | UAS\_Ph2 | agreed |
| S3-234746 | Removal of the indicator of UUAA-MM result from AMF | CMCC | 33.256 | 0036 | - | Rel-17 | F | UAS\_Ph2 | merged |
| S3-234747 | Removal of the indicator of UUAA-MM result from AMF | CMCC | 33.256 | 0037 | - | Rel-18 | A | UAS\_Ph2 | merged |
| S3-234776 | R17-Clarification on reliable location information | Ericsson | 33.256 | 0038 | - | Rel-17 | F | ID\_UAS | not pursued |
| S3-234777 | Rel18-Clarification on reliable location information | Ericsson | 33.256 | 0039 | - | Rel-18 | A | ID\_UAS | not pursued |
| S3-234944 | Updates to Clause 5.2.1.1 | Lenovo | 33.256 | 0040 | - | Rel-18 | F | ID\_UAS | merged |
| S3-234550 | Updates to the SBA certificate profile | Nokia, Nokia Shanghai Bell | 33.310 | 0169 | - | Rel-18 | F | ACM\_SBA | not pursued |
| S3-234552 | Automated additions of root CAs certificates using CMP | Nokia, Nokia Shanghai Bell | 33.310 | 0170 | - | Rel-18 | B | TEI18 | not pursued |
| S3-234639 | Update to Set up of initial trust | Huawei, HiSilicon | 33.310 | 0171 | - | Rel-18 | F | ACM\_SBA | agreed |
| S3-234640 | Update to Validation of usage of X.509 certificate | Huawei, HiSilicon | 33.310 | 0172 | - | Rel-18 | F | ACM\_SBA | agreed |
| S3-234652 | CR to update certificate lifecycle management | Huawei, HiSilicon | 33.310 | 0173 | - | Rel-18 | F | ACM\_SBA | not pursued |
| S3-234660 | HTTP RFC obsoleted by IETF RFC 9113 | Huawei, HiSilicon | 33.310 | 0174 | - | Rel-18 | F | TEI18 | agreed |
| S3-234879 | Correction of reference and related text | Orange | 33.310 | 0175 | - | Rel-18 | F | TEI18 | revised |
| S3-235020 | Correction of reference and related text | Orange | 33.310 | 0175 | 1 | Rel-18 | A | TEI16 | agreed |
| S3-234915 | Correction of reference and related text | Orange | 33.310 | 0176 | - | Rel-17 | A | TEI18 | revised |
| S3-235021 | Correction of reference and related text | Orange | 33.310 | 0176 | 1 | Rel-17 | A | TEI16 | agreed |
| S3-234916 | Correction of reference and related text | Orange UK | 33.310 | 0177 | - | Rel-16 | A | TEI18 | revised |
| S3-235022 | Correction of reference and related text | Orange UK | 33.310 | 0177 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-234917 | Correcting the UUID example in SBA certificates | Ericsson | 33.310 | 0178 | - | Rel-16 | F | 5G\_eSBA | withdrawn |
| S3-234918 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | 33.310 | 0179 | - | Rel-16 | F | 5G\_eSBA | withdrawn |
| S3-234919 | Correcting the UUID example in SBA certificates | Ericsson | 33.310 | 0180 | - | Rel-17 | A | 5G\_eSBA | withdrawn |
| S3-234921 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | 33.310 | 0181 | - | Rel-17 | A | 5G\_eSBA | withdrawn |
| S3-234922 | Correcting the UUID example in SBA certificates | Ericsson | 33.310 | 0182 | - | Rel-18 | A | 5G\_eSBA | withdrawn |
| S3-234924 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | 33.310 | 0183 | - | Rel-18 | A | 5G\_eSBA | withdrawn |
| S3-234928 | Correcting the UUID example in SBA certificates | Ericsson | 33.310 | 0184 | - | Rel-16 | F | 5G\_eSBA | agreed |
| S3-234931 | Correcting the UUID example in SBA certificates | Ericsson | 33.310 | 0185 | - | Rel-17 | A | 5G\_eSBA | agreed |
| S3-234935 | Correcting the UUID example in SBA certificates | Ericsson | 33.310 | 0186 | - | Rel-18 | A | 5G\_eSBA | agreed |
| S3-234939 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | 33.310 | 0187 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-234943 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | 33.310 | 0188 | - | Rel-17 | A | 5G\_eSBA | not pursued |
| S3-234947 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | 33.310 | 0189 | - | Rel-18 | A | 5G\_eSBA | not pursued |
| S3-234796 | Update UE terminating procedures for e2DCe | Ericsson | 33.328 | 0072 | - | Rel-18 | F | NG\_RTC\_SEC | agreed |
| S3-234797 | Change of the abbreviation "DCMF to "MF" and related changes to the text and figures | Ericsson | 33.328 | 0073 | - | Rel-18 | F | NG\_RTC\_SEC | agreed |
| S3-234798 | Add the abbreviation "IMS AS" | Ericsson | 33.328 | 0074 | - | Rel-18 | F | NG\_RTC\_SEC | agreed |
| S3-234799 | Remove "DC Application Server" in Figure N.3.4-1 and add a NOTE | Ericsson | 33.328 | 0075 | - | Rel-18 | F | NG\_RTC\_SEC | agreed |
| S3-234800 | Editorial changes to clause 7.2.5 | Ericsson | 33.328 | 0076 | - | Rel-18 | D | NG\_RTC\_SEC | agreed |
| S3-234801 | Change the "P-CSCF(IMS AS)" to "IMS AS via the P-CSCF" | Ericsson | 33.328 | 0077 | - | Rel-18 | F | NG\_RTC\_SEC | agreed |
| S3-234702 | Protection of UPU header | Qualcomm Incorporated | 33.501 | 1612 | 2 | Rel-18 | F | TEI18, 5GS\_Ph1-SEC | merged |
| S3-234571 | NSWO support in SNPN using CH with AAA server | CableLabs, Charter Communications | 33.501 | 1697 | 2 | Rel-18 | B | eNPN\_Ph2 | revised |
| S3-235077 | NSWO support in SNPN using CH with AAA server | CableLabs, Charter Communications | 33.501 | 1697 | 3 | Rel-18 | F | eNPN\_Ph2 | agreed |
| S3-234708 | Handling of SoR/UPU Counter stored in NVM | Qualcomm Incorporated | 33.501 | 1746 | 1 | Rel-18 | F | TEI18 | revised |
| S3-235052 | Handling of SoR/UPU Counter stored in NVM | Qualcomm Incorporated | 33.501 | 1746 | 2 | Rel-18 | F | TEI18 | agreed |
| S3-234409 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | 33.501 | 1792 | - | Rel-17 | D | eSCAS\_5G | withdrawn |
| S3-234534 | Callback URI clarification and API correction | Nokia, Nokia Shanghai Bell | 33.501 | 1793 | - | Rel-18 | F | HN\_Auth | merged |
| S3-235041 | Callback URI clarification and API correction | Nokia, Nokia Shanghai Bell | 33.501 | 1793 | 1 | Rel-18 | F | HN\_Auth | withdrawn |
| S3-234536 | Removing GUTI from Registration Reject | Nokia, Nokia Shanghai Bell | 33.501 | 1794 | - | Rel-18 | F | TEI18 | revised |
| S3-235045 | Removing GUTI from Registration Reject | Nokia, Nokia Shanghai Bell | 33.501 | 1794 | 1 | Rel-18 | F | 5WWC\_Ph2\_Sec | agreed |
| S3-234537 | NULL encryption clarification | Nokia, Nokia Shanghai Bell | 33.501 | 1795 | - | Rel-18 | F | TEI18 | revised |
| S3-235046 | NULL encryption clarification | Nokia, Nokia Shanghai Bell | 33.501 | 1795 | 1 | Rel-18 | F | 5WWC\_Ph2\_sec | agreed |
| S3-234538 | N3IWF procedure clarification | Nokia, Nokia Shanghai Bell | 33.501 | 1796 | - | Rel-15 | F | TEI15 | not pursued |
| S3-234539 | N3IWF procedure clarification | Nokia, Nokia Shanghai Bell | 33.501 | 1797 | - | Rel-16 | A | TEI15 | not pursued |
| S3-234540 | N3IWF procedure clarification | Nokia, Nokia Shanghai Bell | 33.501 | 1798 | - | Rel-17 | A | TEI15 | not pursued |
| S3-234541 | N3IWF procedure clarification | Nokia, Nokia Shanghai Bell | 33.501 | 1799 | - | Rel-18 | F | TEI18 | revised |
| S3-235082 | N3IWF procedure clarification | Nokia, Nokia Shanghai Bell | 33.501 | 1799 | 1 | Rel-18 | F | TEI18 | agreed |
| S3-234543 | Framework for NF accessing the external AF data | Nokia, Nokia Shanghai Bell | 33.501 | 1800 | - | Rel-17 | F | TEI17 | not pursued |
| S3-234544 | Framework for NF accessing the external AF data | Nokia, Nokia Shanghai Bell | 33.501 | 1801 | - | Rel-18 | A | TEI17 | not pursued |
| S3-234545 | SOR UPU NVM issue | Nokia, Nokia Shanghai Bell | 33.501 | 1802 | - | Rel-18 | F | TEI18 | not pursued |
| S3-234549 | Enhancement in UPU procedure to protect UPU header | Nokia, Nokia Shanghai Bell | 33.501 | 1803 | - | Rel-18 | F | TEI18 | merged |
| S3-234553 | Conveying the CCA of the source NF service consumer | Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1804 | - | Rel-18 | A | eNA\_Ph2 | revised |
| S3-235035 | Conveying the CCA of the source NF service consumer | Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1804 | 1 | Rel-18 | A | eNA\_Ph2 | agreed |
| S3-234554 | Adding service area for authorization in FL | Nokia, Nokia Shanghai Bell | 33.501 | 1805 | - | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-234555 | Removing EN in X.10 clause of TS 33.501 related to allowed NF consumers list | Nokia, Nokia Shanghai Bell | 33.501 | 1806 | - | Rel-18 | F | eNA\_Ph3\_SEC | revised |
| S3-235036 | Removing EN in X.10 clause of TS 33.501 related to allowed NF consumers list | Nokia, Nokia Shanghai Bell | 33.501 | 1806 | 1 | Rel-18 | F | eNA\_Ph3\_SEC | agreed |
| S3-234560 | Conveying the CCA of the source NF service consumer | Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1807 | - | Rel-17 | F | eNA\_Ph2 | revised |
| S3-235034 | Conveying the CCA of the source NF service consumer | Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1807 | 1 | Rel-17 | F | eNA\_Ph2 | agreed |
| S3-234561 | Guidance on mitigating privacy risk of variable length NAI-based SUPIs | InterDigital Communications, Nokia | 33.501 | 1808 | - | Rel-19 | F | TEI19 | revised |
| S3-234854 | Guidance on mitigating privacy risk of variable length NAI-based SUPIs | InterDigital Communications, Nokia | 33.501 | 1808 | 1 | Rel-19 | F | TEI19 | revised |
| S3-234925 | Guidance on mitigating privacy risk of variable length NAI-based SUPIs | InterDigital Communications, Nokia | 33.501 | 1808 | 2 | Rel-19 | F | TEI19 | merged |
| S3-234575 | Replace reference to IETF draft-emu-eap-tls13 in annex B with RFC 9190 | CableLabs | 33.501 | 1809 | - | Rel-18 | F | TEI18 | revised |
| S3-235042 | Replace reference to IETF draft-emu-eap-tls13 in annex B with RFC 9190 | CableLabs | 33.501 | 1809 | 1 | Rel-18 | F | TEI18 | agreed |
| S3-234577 | AUSF sends back MSK to W-AGF after successful EAP authentication | CableLabs | 33.501 | 1810 | - | Rel-18 | C | TEI18 | revised |
| S3-235048 | AUSF sends back MSK to W-AGF after successful EAP authentication | CableLabs | 33.501 | 1810 | 1 | Rel-18 | F | TEI18 | agreed |
| S3-234585 | Remove the EN on I.10.3.1 | ZTE | 33.501 | 1811 | - | Rel-18 | F | eNPN\_Ph2 | merged |
| S3-234586 | Remove the 5G-GUTI in the Registration Reject message in clause 7.2.1 and 7A.2.1 | ZTE | 33.501 | 1812 | - | Rel-18 | F | TEI18 | merged |
| S3-234596 | Reuse error code during home network triggered primary authentication procedure | ZTE | 33.501 | 1813 | - | Rel-18 | F | HN\_Auth | revised |
| S3-235038 | Reuse error code during home network triggered primary authentication procedure | ZTE | 33.501 | 1813 | 1 | Rel-18 | F | HN\_Auth | agreed |
| S3-234597 | Clarify AMF responses in HONTRA procedure. | ZTE Corporation | 33.501 | 1814 | - | Rel-18 | F | HN\_Auth | not pursued |
| S3-235039 | Clarify AMF responses in HONTRA procedure. | ZTE Corporation | 33.501 | 1814 | 1 | Rel-18 | F | HN\_Auth | withdrawn |
| S3-234598 | HONTRA procedure corrections | ZTE Corporation | 33.501 | 1815 | - | Rel-18 | F | HN\_Auth | merged |
| S3-234600 | Home control for Network Slice Admission Control procedures | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, Xiaomi, ZTE | 33.501 | 1816 | - | Rel-18 | B | DUMMY | not pursued |
| S3-234605 | NSSAA procedure update for multiple registration | Huawei, HiSilicon | 33.501 | 1817 | - | Rel-17 | F | TEI17 | not pursued |
| S3-234608 | Clarification on SBI service request procedures | Huawei, HiSilicon | 33.501 | 1818 | - | Rel-17 | F | TEI17 | not pursued |
| S3-234609 | Clarification on SBI service request procedures | Huawei, HiSilicon | 33.501 | 1819 | - | Rel-18 | A | TEI17 | not pursued |
| S3-234614 | Updating intermediary originated error message procedure | NTT DOCOMO | 33.501 | 1820 | - | Rel-18 | F | Roaming5G | revised |
| S3-234973 | Updating intermediary originated error message procedure | NTT DOCOMO, Vodafone | 33.501 | 1820 | 1 | Rel-18 | F | Roaming5G | merged |
| S3-234615 | Defining Roaming Hub | NTT DOCOMO, Vodafone | 33.501 | 1821 | - | Rel-18 | F | Roaming5G | not pursued |
| S3-235070 | Defining Roaming Hub | NTT DOCOMO, Vodafone | 33.501 | 1821 | 1 | Rel-18 | F | Roaming5G | withdrawn |
| S3-234625 | Correction on protection of data and analytics exchange in roaming case | Huawei, HiSilicon | 33.501 | 1822 | - | Rel-18 | D | eNA\_Ph3\_Sec | agreed |
| S3-234627 | Security for NSWO support in SNPN | Huawei, HiSilicon | 33.501 | 1823 | - | Rel-18 | F | eNA\_Ph2 | not pursued |
| S3-234637 | Clarification about the NOTE in MOCN | Huawei, HiSilicon | 33.501 | 1824 | - | Rel-18 | A | 5MBS\_Ph2 | not pursued |
| S3-234638 | withdrawn | Huawei, HiSilicon | 33.501 | 1825 | - | Rel-18 | F | eNA\_Ph3 | withdrawn |
| S3-234650 | Update the abbreviation list to include CPA and CPC R17 | Huawei, HiSilicon | 33.501 | 1826 | - | Rel-17 | F | TEI17 | agreed |
| S3-234651 | Update the abbreviation list to include CPA and CPC R18 | Huawei, HiSilicon | 33.501 | 1827 | - | Rel-18 | A | TEI17 | agreed |
| S3-234653 | Delete Editor's Note in trusted non-3GPP access | Huawei, HiSilicon | 33.501 | 1828 | - | Rel-18 | F | eNPN\_Ph2 | not pursued |
| S3-234654 | Update step 8 in AUN3 devices supporting 5G key hierarchy procedure | Huawei, HiSilicon | 33.501 | 1829 | - | Rel-18 | F | 5WWC\_Ph2\_sec | not pursued |
| S3-234655 | clarification for HONTRA procedure | Huawei, HiSilicon | 33.501 | 1830 | - | Rel-18 | F | HN\_Auth | revised |
| S3-235040 | clarification for HONTRA procedure | Huawei, HiSilicon | 33.501 | 1830 | 1 | Rel-18 | F | HN\_Auth | agreed |
| S3-234662 | HTTP RFC obsoleted by IETF RFC 9113 | Huawei, HiSilicon | 33.501 | 1831 | - | Rel-18 | F | TEI18 | agreed |
| S3-234667 | Remove the 5G-GUTI in the Registration Reject message in clause 7.2.1 and 7A.2.1 | Intel | 33.501 | 1832 | - | Rel-18 | F | TEI18 | merged |
| S3-234680 | Clarification on signalling overload in Home Network Triggered Authentication | LG Electronics | 33.501 | 1833 | - | Rel-18 | F | HN\_Auth | not pursued |
| S3-234685 | Procedure for secured and authorized AIML model data sharing | Huawei, HiSilicon | 33.501 | 1834 | - | Rel-18 | F | eNA\_Ph3 | not pursued |
| S3-234686 | Update Service Area in FL Authorization | Huawei, HiSilicon | 33.501 | 1835 | - | Rel-18 | F | eNA\_Ph3 | not pursued |
| S3-234694 | Resolving Editor's Note on N32 and/or SBA layers for Modified PRINS | Vodafone, Verizon, T-Mobile USA, NTT DOCOMO, Telefonica | 33.501 | 1836 | - | Rel-18 | F | Roaming5G | revised |
| S3-235069 | Restructuring and addressing editor's Note on N32 and/or SBA layers for Modified PRINS | Vodafone, Verizon, T-Mobile USA, NTT DOCOMO, BSI (DE), Nokia, Nokia Shanghai Bell, Comcast, Deutsche Telekom | 33.501 | 1836 | 1 | Rel-18 | F | Roaming5G | agreed |
| S3-234696 | Security for subsequent CPAC | OPPO | 33.501 | 1837 | - | Rel-18 | B | TEI18 | not pursued |
| S3-234703 | Establishing IPsec SAs for IAB inter-CU topology adaptation and backhaul RLF recovery procedure | Qualcomm Incorporated | 33.501 | 1838 | - | Rel-17 | F | TEI17 | revised |
| S3-234933 | Establishing IPsec SAs for IAB inter-CU topology adaptation and backhaul RLF recovery procedure | Qualcomm Incorporated | 33.501 | 1838 | 1 | Rel-17 | F | TEI17 | not pursued |
| S3-234704 | Establishing IPsec SAs for IAB inter-CU topology adaptation and backhaul RLF recovery procedure | Qualcomm Incorporated | 33.501 | 1839 | - | Rel-18 | A | TEI17 | not pursued |
| S3-234718 | Use "visited PLMN" in the roaming description | Ericsson | 33.501 | 1840 | - | Rel-16 | F | 5G\_eSBA | agreed |
| S3-234719 | Use "visited PLMN" in the roaming description | Ericsson | 33.501 | 1841 | - | Rel-17 | A | 5G\_eSBA | agreed |
| S3-234720 | Validation of the parameters in the access token request in hierarchial NRF deployment | Ericsson | 33.501 | 1842 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | agreed |
| S3-234721 | Validation of the parameters in the access token request in roaming scenarios | Ericsson | 33.501 | 1843 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | agreed |
| S3-234722 | Validation of the parameters in the access token request in interconnect scenarios | Ericsson | 33.501 | 1844 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | agreed |
| S3-234723 | Use "visited PLMN" in the roaming description | Ericsson | 33.501 | 1845 | - | Rel-18 | A | 5G\_eSBA | agreed |
| S3-234724 | Guidance on mitigating privacy risk of variable length NAI based SUPIs | Ericsson, Qualcomm Incorporated | 33.501 | 1846 | - | Rel-18 | F | TEI18 | withdrawn |
| S3-234752 | EN resolving in TS33.501 X.2(R17) | China Mobile | 33.501 | 1847 | - | Rel-17 | F | eNA\_Ph3\_SEC | merged |
| S3-234753 | EN resolving in TS33.501 X.2(R18) | China Mobile | 33.501 | 1848 | - | Rel-18 | A | eNA\_Ph3\_SEC | merged |
| S3-234754 | Vendor ID EN resolving in TS33.501 X.10\_Rel 17 | China mobile | 33.501 | 1849 | - | Rel-17 | F | eNA\_Ph3\_SEC | not pursued |
| S3-234755 | Vendor ID EN resolving in TS33.501 X.10\_Rel 18 | China mobile | 33.501 | 1850 | - | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-234756 | Resolving EN about AN parameters | Ericsson | 33.501 | 1851 | - | Rel-18 | F | eNPN\_Ph2 | not pursued |
| S3-234757 | Correction of CR implementation | Ericsson | 33.501 | 1852 | - | Rel-18 | F | eNPN\_Ph2 | revised |
| S3-235018 | Correction of CR implementation | Ericsson,Nokia | 33.501 | 1852 | 1 | Rel-18 | F | eNPN\_Ph2 | agreed |
| S3-234758 | Editorial correction of CR implementation | Ericsson,Nokia | 33.501 | 1853 | - | Rel-18 | F | eNPN\_Ph2 | agreed |
| S3-234759 | Correction of Figure 7A.2.1-1 | Ericsson,Lenovo | 33.501 | 1854 | - | Rel-18 | F | 5WWC\_Ph2\_Sec | agreed |
| S3-234764 | Editorial modifications on PRINS | Huawei, HiSilicon | 33.501 | 1855 | - | Rel-18 | F | Roaming5G | agreed |
| S3-234766 | Authentication result removal | Huawei, HiSilicon | 33.501 | 1856 | - | Rel-19 | B | TEI19 | not pursued |
| S3-234767 | Editorial modifications on PRINS | Huawei, HiSilicon | 33.501 | 1857 | - | Rel-18 | F | Roaming5G | merged |
| S3-234768 | Addressing ENs on reformattedData and N32-f context | Huawei, HiSilicon | 33.501 | 1858 | - | Rel-18 | F | Roaming5G | merged |
| S3-234769 | Addressing EN on error message layers | Huawei, HiSilicon | 33.501 | 1859 | - | Rel-18 | F | Roaming5G | merged |
| S3-234770 | Deleting Note 3 in clause 5.9.3.2 | Huawei, HiSilicon | 33.501 | 1860 | - | Rel-18 | F | Roaming5G | not pursued |
| S3-234772 | Guidance on mitigating privacy risk of variable length NAI based SUPIs | Ericsson, Qualcomm Incorporated | 33.501 | 1861 | - | Rel-18 | F | TEI18 | revised |
| S3-235058 | Guidance on mitigating privacy risk of variable length NAI based SUPIs | Ericsson, Qualcomm Incorporated | 33.501 | 1861 | 1 | Rel-18 | F | TEI18 | agreed |
| S3-234779 | Security of EAS discovery | Ericsson | 33.501 | 1862 | - | Rel-18 | B | EDGE\_Ph2 | not pursued |
| S3-235061 | Security of EAS discovery | Ericsson | 33.501 | 1862 | 1 | Rel-18 | F | EDGE\_Ph2 | withdrawn |
| S3-234781 | 33.501 Rel-17 Correction: Reverting Annex P back to informative | Ericsson | 33.501 | 1863 | - | Rel-17 | F | eEDGE\_5GC | not pursued |
| S3-235062 | 33.501 Rel-17 Correction: Reverting Annex P back to informative | Ericsson | 33.501 | 1863 | 1 | Rel-17 | F | eEDGE\_5GC | withdrawn |
| S3-234782 | 33.501 Rel-18 Correction: Reverting Annex P back to informative | Ericsson | 33.501 | 1864 | - | Rel-18 | A | eEDGE\_5GC | not pursued |
| S3-235063 | 33.501 Rel-18 Correction: Reverting Annex P back to informative | Ericsson | 33.501 | 1864 | 1 | Rel-18 | A | eEDGE\_5GC | withdrawn |
| S3-234794 | Implementation corrections | Ericsson | 33.501 | 1865 | - | Rel-18 | F | HN\_Auth | merged |
| S3-234795 | Clarifications of the AMF and UDM behaviour | Ericsson | 33.501 | 1866 | - | Rel-18 | F | HN\_Auth | merged |
| S3-234814 | Resolution of one EN (storage request update) in Security for AI/ML model storage and sharing | Ericsson | 33.501 | 1867 | - | Rel-18 | F | eNA\_Ph3\_SEC | agreed |
| S3-234815 | Update flow of Nnwdaf\_MLModelProvision | Ericsson | 33.501 | 1868 | - | Rel-18 | F | eNA\_Ph3\_SEC | revised |
| S3-235037 | Update flow of Nnwdaf\_MLModelProvision | Ericsson | 33.501 | 1868 | 1 | Rel-18 | F | eNA\_Ph3\_SEC | agreed |
| S3-234816 | Resolution of one Editor's Note (Transaction ID) for Security for AI/ML model storage and sharing | Ericsson | 33.501 | 1869 | - | Rel-18 | F | eNA\_Ph3\_SEC | merged |
| S3-234817 | Correction on allowed NFc list for model storage and sharing in indirect communication scenarios | Ericsson | 33.501 | 1870 | - | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-234818 | Clarify ADRF usage to be optional | Ericsson | 33.501 | 1871 | - | Rel-18 | F | eNA\_Ph3\_SEC | agreed |
| S3-234819 | Authorization of Model Sharing with MTLF | Ericsson | 33.501 | 1872 | - | Rel-18 | F | eNA\_Ph3\_SEC | not pursued |
| S3-234821 | Handling of 3gpp-Sbi-Originating-Network-Id header in the SNPN case | Ericsson, Nokia, Nokia Shanghai Bell | 33.501 | 1873 | - | Rel-17 | F | TEI17 | agreed |
| S3-234822 | Handling of 3gpp-Sbi-Originating-Network-Id header in the SNPN case | Ericsson, Nokia, Nokia Shanghai Bell | 33.501 | 1874 | - | Rel-18 | A | TEI17 | agreed |
| S3-234824 | Verification of the serving network name by the AUSF | Ericsson | 33.501 | 1875 | - | Rel-17 | F | TEI17 | agreed |
| S3-234825 | Verification of the serving network name by the AUSF | Ericsson | 33.501 | 1876 | - | Rel-18 | A | TEI17 | agreed |
| S3-234826 | Correction of N32-f terminology | Ericsson | 33.501 | 1877 | - | Rel-18 | F | Roaming5G | merged |
| S3-234828 | [IAB][Rel-17] IAB inter-CU topology adaptation procedure | Samsung, Intel, Nokia, Nokia Shanghai Bell | 33.501 | 1878 | - | Rel-17 | F | TEI17 | revised |
| S3-235032 | [IAB][Rel-17] IAB inter-CU topology adaptation procedure | Samsung, Intel, Nokia, Nokia Shanghai Bell | 33.501 | 1878 | 1 | Rel-17 | F | TEI17 | agreed |
| S3-234829 | [IAB][Rel-18] IAB inter-CU topology adaptation procedure | Samsung, Intel, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1879 | - | Rel-18 | F | TEI18 | revised |
| S3-235033 | [IAB][Rel-18] IAB inter-CU topology adaptation procedure | Samsung, Intel, Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1879 | 1 | Rel-18 | A | TEI17 | agreed |
| S3-234831 | Security for Selective SCG Activation | Samsung | 33.501 | 1880 | - | Rel-18 | B | TEI18 | not pursued |
| S3-234833 | Updating security procedure to enable Roaming Hubs | Samsung | 33.501 | 1881 | - | Rel-18 | B | TEI18 | not pursued |
| S3-234838 | 5MBS Annex W.4.2 | Ericsson | 33.501 | 1882 | - | Rel-17 | F | 5MBS | revised |
| S3-235106 | 5MBS Annex W.4.2 | Ericsson | 33.501 | 1882 | 1 | Rel-17 | F | 5MBS | agreed |
| S3-234850 | 5MBS Annex W.4.2 | Ericsson | 33.501 | 1883 | - | Rel-18 | A | 5MBS | revised |
| S3-235107 | 5MBS Annex W.4.2 | Ericsson | 33.501 | 1883 | 1 | Rel-18 | A | 5MBS | agreed |
| S3-234857 | Resolution of EN concerning the content of AN-parameters. | Nokia, Nokia Shanghai Bell | 33.501 | 1884 | - | Rel-18 | F | eNPN\_Ph2 | not pursued |
| S3-235083 | Resolution of EN concerning the content of AN-parameters. | Nokia, Nokia Shanghai Bell | 33.501 | 1884 | 1 | Rel-18 | F | eNPN\_Ph2 | withdrawn |
| S3-234858 | Editorial correction of incorrectly formatted text. | Nokia, Nokia Shanghai Bell | 33.501 | 1885 | - | Rel-18 | F | eNPN\_Ph2 | not pursued |
| S3-234859 | Reintroduction of agreed changes not merged to TS 33.501 v 18.3.0 | Nokia, Nokia Shanghai Bell | 33.501 | 1886 | - | Rel-18 | F | eNPN\_Ph2 | merged |
| S3-234863 | SEPP requirement for error handling from Roaming Intermediaries | Nokia, Nokia Shanghai Bell | 33.501 | 1887 | - | Rel-18 | F | Roaming5G | merged |
| S3-234864 | N32f and N32c correlation issue | Nokia, Nokia Shanghai Bell | 33.501 | 1888 | - | Rel-18 | F | Roaming5G | not pursued |
| S3-234865 | Security profiles for PRINS | Nokia, Nokia Shanghai Bell | 33.501 | 1889 | - | Rel-18 | F | Roaming5G | not pursued |
| S3-234870 | CVD-0069 Cross check on NF discovery request | Nokia, Nokia Shanghai Bell | 33.501 | 1890 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | not pursued |
| S3-234871 | CVD-0069 Condition of including allowed sNSSAIs in access token | Nokia, Nokia Shanghai Bell | 33.501 | 1891 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | not pursued |
| S3-234872 | CVD-0069 Access token validity time | Nokia, Nokia Shanghai Bell | 33.501 | 1892 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | not pursued |
| S3-234920 | Correction to Figure 16.4-1 | Ericsson | 33.501 | 1893 | - | Rel-17 | F | eNS2\_SEC | not pursued |
| S3-234419 | Correction in trusted non-3GPP access authentication | Lenovo | 33.501 | 1894 | - | Rel-19 | F | 5GS\_Ph1-SEC | not pursued |
| S3-234927 | Correction to Figure 16.4-1 | Ericsson | 33.501 | 1895 | - | Rel-18 | A | eNS2\_SEC | not pursued |
| S3-234421 | UPU Header Security | Lenovo | 33.501 | 1896 | - | Rel-18 | F | TEI18,5GS\_Ph1-SEC | not pursued |
| S3-235047 | UPU Header Security | Lenovo | 33.501 | 1896 | 1 | Rel-18 | F | TEI18,5GS\_Ph1-SEC | withdrawn |
| S3-234932 | Add the case of a failed AUTS verification in the UDM/ARPF to the synchronization failure recovery of the Home Network | BSI (DE) | 33.501 | 1897 | - | Rel-19 | F | TEI19 | revised |
| S3-234957 | Add the case of a failed AUTS verification in the UDM/ARPF to the synchronization failure recovery of the Home Network | BSI (DE) | 33.501 | 1897 | 1 | Rel-19 | F | TEI19 | not pursued |
| S3-234960 | Resolution of one Editor's Note (Interoperability ID) for Security for AI/ML model storage and sharing | Ericsson, Nokia, Nokia Shanghai Bell,China Mobile | 33.501 | 1898 | - | Rel-18 | F | eNA\_Ph3\_SEC | agreed |
| S3-234855 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell, Ericsson | 33.503 | 0109 | 1 | Rel-17 | F | 5G\_ProSe | revised |
| S3-234923 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell, Ericsson | 33.503 | 0109 | 2 | Rel-17 | F | 5G\_ProSe | not pursued |
| S3-235012 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell, Ericsson | 33.503 | 0109 | 3 | Rel-17 | F | 5G\_ProSe | withdrawn |
| S3-234509 | Security of 5G ProSe PC5 Communication – clarification | Philips International B.V. | 33.503 | 0124 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | revised |
| S3-235066 | Security of 5G ProSe PC5 Communication – clarification | Philips International B.V. | 33.503 | 0124 | 1 | Rel-18 | F | 5G\_ProSe\_Ph2 | agreed |
| S3-234521 | Retrieving keys for decryption of protected IEs in DCR for U2N relay | Interdigital | 33.503 | 0125 | - | Rel-17 | F | 5G\_ProSe | not pursued |
| S3-234522 | Retrieving keys for decryption of protected IEs in DCR for U2N relay | Interdigital | 33.503 | 0126 | - | Rel-18 | F | 5G\_ProSe | not pursued |
| S3-234511 | Key identification for decryption of protected IEs for UE-to-Network Relay | Philips International B.V. | 33.503 | 0127 | - | Rel-18 | C | 5G\_ProSe\_Ph2 | not pursued |
| S3-234587 | Update the clause 6.6.3.3 in 33.503 | ZTE | 33.503 | 0128 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | merged |
| S3-234641 | Clairification and editorial changes to clause 6.6.3.3 | Huawei, HiSilicon | 33.503 | 0129 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | merged |
| S3-234642 | Clarification about key derivation in CP procedures and edtiorial changes R17 | Huawei, HiSilicon | 33.503 | 0130 | - | Rel-17 | F | 5G\_ProSe | agreed |
| S3-234643 | Clarification about key derivation in CP procedures and edtiorial changes R18 | Huawei, HiSilicon | 33.503 | 0131 | - | Rel-18 | A | 5G\_ProSe | agreed |
| S3-234688 | Update clause 6.1.1, 6.6.1, 6.6.3.3 and 6.6.4.1 | OPPO, Xidian | 33.503 | 0132 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | revised |
| S3-235011 | Update clause 6.1.1, 6.6.1, 6.6.3.3 and 6.6.4.1 | OPPO, Xidian | 33.503 | 0132 | 1 | Rel-18 | F | 5G\_ProSe\_Ph2 | agreed |
| S3-234698 | CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 17 | CATT | 33.503 | 0133 | - | Rel-17 | F | 5G\_ProSe | revised |
| S3-235054 | CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 17 | CATT | 33.503 | 0133 | 1 | Rel-17 | F | 5G\_ProSe | agreed |
| S3-234699 | CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 18 (mirror) | CATT | 33.503 | 0134 | - | Rel-18 | A | 5G\_ProSe | revised |
| S3-235055 | CR to TS33.503 Clarification on the use of 5GPKMF service operations Release 18 (mirror) | CATT | 33.503 | 0134 | 1 | Rel-18 | A | 5G\_ProSe | agreed |
| S3-234700 | CR to TS33.503 Correction U2U Relay Communication | CATT | 33.503 | 0135 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | revised |
| S3-235010 | CR to TS33.503 Correction U2U Relay Communication | CATT | 33.503 | 0135 | 1 | Rel-18 | F | 5G\_ProSe\_Ph2 | agreed |
| S3-234709 | Rel17 ProSe - Updates on U2N relay discovery key request procedure | Qualcomm Incorporated | 33.503 | 0136 | - | Rel-17 | F | 5G\_ProSe | not pursued |
| S3-234710 | Rel17 ProSe: Updates on U2N relay security over control plane | Qualcomm Incorporated | 33.503 | 0137 | - | Rel-17 | F | 5G\_ProSe | agreed |
| S3-234711 | Rel18 ProSe – Adding security for U2U Relay communication with integrated discovery | Qualcomm Incorporated | 33.503 | 0138 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | not pursued |
| S3-234713 | Rel18 ProSe - Updates on U2N relay discovery key request procedure | Qualcomm Incorporated | 33.503 | 0139 | - | Rel-18 | A | 5G\_ProSe | revised |
| S3-234941 | Rel18 ProSe - Updates on U2N relay discovery key request procedure | Qualcomm Incorporated | 33.503 | 0139 | 1 | Rel-18 | A | 5G\_ProSe | not pursued |
| S3-235013 | Update discovery key response of U2N discovery security procdure | Nokia,Qualcomm Incorporated | 33.503 | 0139 | 2 | Rel-18 | A | 5G\_ProSe | withdrawn |
| S3-234714 | Rel18 ProSe: Updates on U2N relay security over control plane | Qualcomm Incorporated | 33.503 | 0140 | - | Rel-18 | A | 5G\_ProSe | revised |
| S3-234942 | Rel18 ProSe: Updates on U2N relay security over control plane | Qualcomm Incorporated | 33.503 | 0140 | 1 | Rel-18 | A | 5G\_ProSe | agreed |
| S3-234727 | CR to TS33.503 Clarification on the process of protecting U2U relay discovery message | CATT | 33.503 | 0141 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | merged |
| S3-234728 | Retrieving keys for decryption of protected IEs for U2N relay | Ericsson, Huawei, HiSilicon | 33.503 | 0142 | - | Rel-17 | F | 5G\_ProSe | not pursued |
| S3-234730 | UE-to-UE Relay Communication with integrated discovery | Ericsson | 33.503 | 0143 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | revised |
| S3-234843 | UE-to-UE Relay Communication with integrated discovery | Ericsson | 33.503 | 0143 | 1 | Rel-18 | F | 5G\_ProSe\_Ph2 | not pursued |
| S3-234731 | Corrections | Ericsson | 33.503 | 0144 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | agreed |
| S3-234732 | Retrieving keys for decryption of protected IEs for U2N relay | Ericsson, Huawei, HiSilicon | 33.503 | 0145 | - | Rel-18 | A | 5G\_ProSe | not pursued |
| S3-234839 | Hop-by-hop security policy | OPPO | 33.503 | 0146 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | not pursued |
| S3-234841 | Incorrect clause reference | OPPO | 33.503 | 0147 | - | Rel-18 | D | 5G\_ProSe\_Ph2 | merged |
| S3-234510 | UTC-based Counter Reconciliation | Philips International B.V. | 33.503 | 0148 | - | Rel-18 | B | 5G\_ProSe\_Ph2 | not pursued |
| S3-234512 | 4.1.3 - Clause 6.1.3.3 - Clarification DDS | Philips International B.V. | 33.503 | 0149 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | revised |
| S3-235056 | 4.1.3 - Clause 6.1.3.3 - Clarification DDS | Philips International B.V. | 33.503 | 0149 | 1 | Rel-18 | F | 5G\_ProSe\_Ph2 | agreed |
| S3-234856 | 4.1.3 - Clause 6.1.3.3 - Clarification UE-to-UE Relay discovery key provisioning | Philips International B.V. | 33.503 | 0150 | - | Rel-18 | B | 5G\_ProSe\_Ph2 | not pursued |
| S3-234895 | Add the general clause for UE-to-UE Relay Communication | Beijing Xiaomi Mobile Software | 33.503 | 0151 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | merged |
| S3-234896 | Clarification on protection on the direct discovery set in the U2U discovery | Beijing Xiaomi Mobile Software | 33.503 | 0152 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | not pursued |
| S3-234897 | Clarification on UE-to-UE Relay coverage status in the U2U discovery model B procedure | Beijing Xiaomi Mobile Software | 33.503 | 0153 | - | Rel-18 | F | 5G\_ProSe\_Ph2 | merged |
| S3-234898 | Clarification on the discovery security parameters in the U2N discovery | Beijing Xiaomi Mobile Software | 33.503 | 0154 | - | Rel-17 | F | 5G\_ProSe | merged |
| S3-234899 | Clarification on the discovery security parameters in the U2N discovery (mirror) | Beijing Xiaomi Mobile Software | 33.503 | 0155 | - | Rel-18 | A | 5G\_ProSe\_Ph2 | not pursued |
| S3-234407 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | 33.511 | 0050 | - | Rel-18 | D | eSCAS\_5G | revised |
| S3-234408 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | 33.511 | 0050 | 1 | Rel-18 | D | eSCAS\_5G | withdrawn |
| S3-234410 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | 33.511 | 0051 | - | Rel-16 | D | eSCAS\_5G | withdrawn |
| S3-234413 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | 33.511 | 0052 | - | Rel-18 | D | eSCAS\_5G | revised |
| S3-234982 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | 33.511 | 0052 | 1 | Rel-18 | A | SCAS\_5G | agreed |
| S3-234414 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | 33.511 | 0053 | - | Rel-17 | D | eSCAS\_5G | revised |
| S3-234983 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | 33.511 | 0053 | 1 | Rel-17 | A | SCAS\_5G | agreed |
| S3-234415 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | 33.511 | 0054 | - | Rel-16 | D | eSCAS\_5G | revised |
| S3-234984 | To replace RRC connection reconfiguration by RRC reconfiguration | ISSDU | 33.511 | 0054 | 1 | Rel-16 | F | SCAS\_5G | agreed |
| S3-234842 | Correction of protocol in Expected format of evidence | BSI (DE) | 33.513 | 0014 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-234950 | Correction of protocol in Expected format of evidence | BSI (DE) | 33.513 | 0014 | 1 | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-234844 | Added missing Test Name and Expected format of evidence | BSI (DE) | 33.514 | 0010 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-234952 | Added missing Test Name and Expected format of evidence | BSI (DE) | 33.514 | 0010 | 1 | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-234848 | Added UDM SCAS test cases for checking an invalid and uncompressed point in ECIES protection scheme for SUCI decryption | BSI (DE) | 33.514 | 0011 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-234954 | Added UDM SCAS test cases for checking an invalid and uncompressed point in ECIES protection scheme for SUCI decryption | BSI (DE) | 33.514 | 0011 | 1 | Rel-18 | F | SCAS\_5G\_Ph3 | revised |
| S3-235043 | Added UDM SCAS test cases for checking an invalid and uncompressed point in ECIES protection scheme for SUCI decryption | BSI (DE) | 33.514 | 0011 | 2 | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-234929 | Add UDM SCAS test case for checking the authentication verification of a synchronization failure message | BSI (DE) | 33.514 | 0012 | - | Rel-19 | F | SCAS\_5G\_Ph2 | revised |
| S3-234955 | Add UDM SCAS test case for checking the authentication verification of a synchronization failure message | BSI (DE) | 33.514 | 0012 | 1 | Rel-19 | F | SCAS\_5G\_Ph2 | not pursued |
| S3-234845 | Correction of IE and protocol | BSI (DE) | 33.515 | 0011 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-234951 | Correction of IE and protocol | BSI (DE) | 33.515 | 0011 | 1 | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-234519 | SCAS AUSF - Serving network management | Keysight Technologies UK Ltd | 33.516 | 0007 | - | Rel-18 | B | SCAS\_5G\_Ph3 | not pursued |
| S3-234739 | Correction for VNF package and VNF image integrity of clause 4.2.3.3.5.2 | China Mobile | 33.527 | 0001 | - | Rel-18 | F | VNP\_SECAM\_SCAS | agreed |
| S3-234581 | Update the FC Value in 33.533 | ZTE | 33.533 | 0001 | - | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234582 | Remove the Note in clause 6.3.5 | ZTE | 33.533 | 0002 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234583 | Resolve the issue when SLPTK ID is about to wrap around | ZTE | 33.533 | 0003 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-235079 | Resolve the issue when SLPTK ID is about to wrap around | ZTE | 33.533 | 0003 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234584 | Update the abbreviations in 33.533 | ZTE | 33.533 | 0004 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-235026 | Update the abbreviations in 33.533 | ZTE | 33.533 | 0004 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234631 | Clarification on the authorization procedure of AF or 5GC NF | Huawei, HiSilicon | 33.533 | 0005 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234632 | Location\_PrivacyCheck service from AMF | Huawei, HiSilicon | 33.533 | 0006 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234633 | Location\_PrivacyCheck service from GMLC for UEs belonging to different PLMNs | Huawei, HiSilicon | 33.533 | 0007 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234715 | Rel18 SL positioning - Updates on UE discovery procedure | Qualcomm Incorporated | 33.533 | 0008 | - | Rel-18 | F | Ranging\_SL\_Sec | merged |
| S3-234717 | Rel18 SL positioning - Updates on unicast direct communication security | Qualcomm Incorporated | 33.533 | 0009 | - | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234734 | UE Privacy handling for service exposure through PC5 | Ericsson | 33.533 | 0010 | - | Rel-18 | F | Ranging\_SL\_Sec | merged |
| S3-234736 | UE Privacy profile for Ranging SL positioning | Ericsson | 33.533 | 0011 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234807 | Update clause 6.2.3 in TS 33.533 | OPPO | 33.533 | 0012 | - | Rel-18 | F | Ranging\_SL\_Sec | merged |
| S3-234513 | 4.1.12 - Clause 6.4.4 - clarification | Philips International B.V. | 33.533 | 0013 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234514 | Additions to enable secure network based SL positioning for UE without NAS connection | Philips International B.V. | 33.533 | 0014 | - | Rel-18 | B | Ranging\_SL\_Sec | not pursued |
| S3-234515 | Addition of Ranging/SL Positioning privacy profile | Philips International B.V. | 33.533 | 0015 | - | Rel-18 | B | Ranging\_SL\_Sec | not pursued |
| S3-234516 | Clarification to 6.3.7 on discovery | Philips International B.V. | 33.533 | 0016 | - | Rel-18 | B | Ranging\_SL\_Sec | not pursued |
| S3-234880 | Update to the Reference Points in Clause 4.2.2 | Xiaomi | 33.533 | 0017 | - | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234881 | Update to Common Security in Clause 5 | Xiaomi | 33.533 | 0018 | - | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234882 | Add differences between Ranging discovery and ProSe discovery | Xiaomi | 33.533 | 0019 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-235027 | Add differences between Ranging discovery and ProSe discovery | Xiaomi | 33.533 | 0019 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234884 | Update to failure handling for authorization of UE role included in DCR | Xiaomi | 33.533 | 0020 | - | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234885 | Update to AF authorization procedure for Ranging/SL positioning service exposure | Xiaomi | 33.533 | 0021 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-235028 | Update to AF authorization procedure for Ranging/SL positioning service exposure | Xiaomi | 33.533 | 0021 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234886 | Add privacy handing for Ranging/SL positioning service exposure through 5GC CP | Xiaomi | 33.533 | 0022 | - | Rel-18 | F | Ranging\_SL\_Sec | revised |
| S3-235029 | Add privacy handing for Ranging/SL positioning service exposure through 5GC CP | Xiaomi | 33.533 | 0022 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234887 | Add privacy handing for Ranging/SL positioning service exposure through PC5 | Xiaomi | 33.533 | 0023 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-235030 | Add privacy handing for Ranging/SL positioning service exposure through PC5 | Xiaomi | 33.533 | 0023 | 1 | Rel-18 | F | Ranging\_SL\_Sec | withdrawn |
| S3-234888 | Update to authorization for Ranging/SL positioning service exposure through PC5 | Xiaomi | 33.533 | 0024 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234889 | Update to the title for unicast direct communication with long-term credential | Xiaomi | 33.533 | 0025 | - | Rel-18 | D | Ranging\_SL\_Sec | revised |
| S3-235031 | Update to the title for unicast direct communication with long-term credential | Xiaomi | 33.533 | 0025 | 1 | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234890 | Resolve the Editor's Note on SL Positioning service identifier | Xiaomi | 33.533 | 0026 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234891 | Update to unicast communication for SL positioning service provided by network | Xiaomi | 33.533 | 0027 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234892 | Unicast communication security supported by V2X UEs for SL positioning service provided by network | Xiaomi | 33.533 | 0028 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234893 | Update to the procedure of UE privacy verification for UE-only operation | Xiaomi | 33.533 | 0029 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234900 | Clarification on the authorization for UEs belonging to different PLMNs | Xiaomi | 33.533 | 0030 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234901 | Clarification on the Ranging/SL Positioning service exposure | Xiaomi | 33.533 | 0031 | - | Rel-18 | F | Ranging\_SL\_Sec | agreed |
| S3-234902 | Clarification on the UE Ranging/SL Positioning privacy profile | Xiaomi | 33.533 | 0032 | - | Rel-18 | F | Ranging\_SL\_Sec | not pursued |
| S3-234523 | Correction in UDM and GPSI related requirements | Nokia, Nokia Shanghai Bell | 33.535 | 0180 | - | Rel-17 | F | AKMA | revised |
| S3-235014 | Correction in UDM and GPSI related requirements | Nokia, Nokia Shanghai Bell | 33.535 | 0180 | 1 | Rel-17 | F | AKMA | agreed |
| S3-234524 | Correction in UDM and GPSI related requirements | Nokia, Nokia Shanghai Bell | 33.535 | 0181 | - | Rel-18 | A | AKMA | revised |
| S3-235015 | Correction in UDM and GPSI related requirements | Nokia, Nokia Shanghai Bell | 33.535 | 0181 | 1 | Rel-18 | A | AKMA | agreed |
| S3-234525 | A-KID privacy related requirments | Nokia, Nokia Shanghai Bell | 33.535 | 0182 | - | Rel-17 | F | AKMA | not pursued |
| S3-234526 | A-KID privacy related requirments | Nokia, Nokia Shanghai Bell | 33.535 | 0183 | - | Rel-18 | A | AKMA | not pursued |
| S3-234527 | Editorial alignment | Nokia, Nokia Shanghai Bell | 33.535 | 0184 | - | Rel-17 | F | AKMA | revised |
| S3-235016 | Existing AKMA procedure alignment | Nokia, Nokia Shanghai Bell | 33.535 | 0184 | 1 | Rel-17 | F | AKMA | agreed |
| S3-234528 | Editorial alignment | Nokia, Nokia Shanghai Bell | 33.535 | 0185 | - | Rel-18 | A | AKMA | revised |
| S3-235017 | Existing AKMA procedure alignment | Nokia, Nokia Shanghai Bell | 33.535 | 0185 | 1 | Rel-18 | A | AKMA | agreed |
| S3-234530 | AKMA service restriction in VPLMN | Nokia, Nokia Shanghai Bell | 33.535 | 0186 | - | Rel-18 | F | AKMA\_Ph2 | not pursued |
| S3-234532 | AKMA Service disable or withdrawn | Nokia, Nokia Shanghai Bell, ZTE, ChinaMobile | 33.535 | 0187 | - | Rel-18 | F | AKMA\_Ph2 | not pursued |
| S3-234589 | A-KID update after UPU | ZTE | 33.535 | 0188 | - | Rel-18 | F | AKMA\_Ph2 | not pursued |
| S3-234590 | Adding SUPI/GPSI as an option in KAF request message | ZTE Corporation | 33.535 | 0189 | - | Rel-18 | F | AKMA\_Ph2 | not pursued |
| S3-234591 | Editorial corrections to TS 33.535 in R17 | ZTE Corporation | 33.535 | 0190 | - | Rel-17 | F | AKMA | revised |
| S3-235080 | Editorial corrections to TS 33.535 in R17 | ZTE Corporation | 33.535 | 0190 | 1 | Rel-17 | F | AKMA | agreed |
| S3-234592 | Editorial corrections to TS 33.535 in R18 | ZTE Corporation | 33.535 | 0191 | - | Rel-18 | A | AKMA | revised |
| S3-235081 | Editorial corrections to TS 33.535 in R18 | ZTE Corporation | 33.535 | 0191 | 1 | Rel-18 | A | AKMA | agreed |
| S3-234593 | Update AKMA key lifetimes | ZTE Corporation | 33.535 | 0192 | - | Rel-18 | F | HN\_Auth | not pursued |
| S3-234594 | Update AKMA related UDM services | ZTE Corporation | 33.535 | 0193 | - | Rel-18 | F | HN\_Auth | agreed |
| S3-234595 | Adding indication to inform UE of A-KID refresh | ZTE Corporation | 33.535 | 0194 | - | Rel-18 | F | HN\_Auth | not pursued |
| S3-234659 | HTTP RFC obsoleted by IETF RFC 9110 | Huawei, HiSilicon | 33.535 | 0195 | - | Rel-18 | F | TEI18 | agreed |
| S3-234912 | Routing indicator update issue in the A-KID construction procedure Release 17 | Xiaomi | 33.535 | 0196 | - | Rel-17 | F | AKMA | not pursued |
| S3-234913 | Routing indicator update issue in the A-KID construction procedure Release 18 (mirror) | Xiaomi | 33.535 | 0197 | - | Rel-18 | A | AKMA | not pursued |
| S3-234788 | Correction on the GPSI verification | Ericsson | 33.558 | 0016 | - | Rel-18 | F | EDGE\_Ph2 | not pursued |
| S3-234789 | Clarification on EDGE-10 interface to cover the ECS-ER security | Ericsson | 33.558 | 0017 | - | Rel-18 | F | EDGE\_Ph2 | revised |
| S3-235023 | Clarification on EDGE-10 interface to cover the ECS-ER security | Ericsson | 33.558 | 0017 | 1 | Rel-18 | F | EDGE\_Ph2 | agreed |
| S3-234761 | CR of fixing references | Huawei, HiSilicon | 33.739 | 0001 | - | Rel-18 | F | EDGE\_Ph2 | revised |
| S3-235019 | CR of fixing references | Huawei, HiSilicon | 33.739 | 0001 | 1 | Rel-18 | F | FS\_EDGE\_Ph2 | agreed |
| S3-234762 | CR of terms, abbreviations and symbols | Huawei, HiSilicon | 33.739 | 0002 | - | Rel-18 | F | FS\_EDGE\_Ph2 | agreed |
| S3-234847 | Added UDM threat reference for use of an invalid and uncompressed point in ECIES protection scheme for SUCI decryption | BSI (DE) | 33.926 | 0080 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-234953 | Added UDM threat reference for use of an invalid and uncompressed point in ECIES protection scheme for SUCI decryption | BSI (DE) | 33.926 | 0080 | 1 | Rel-18 | F | SCAS\_5G\_Ph3 | agreed |
| S3-234930 | Add UDM threat reference for missing verification of synchronization failure messages. | BSI (DE) | 33.926 | 0081 | - | Rel-19 | F | SCAS\_5G\_Ph2 | revised |
| S3-234956 | Add UDM threat reference for missing verification of synchronization failure messages. | BSI (DE) | 33.926 | 0081 | 1 | Rel-19 | F | SCAS\_5G\_Ph2 | not pursued |
| S3-234738 | Clarification EMS interface | China Mobile | 33.927 | 0001 | - | Rel-18 | F | VNP\_SECAM\_SCAS | agreed |
| S3-234963 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | 43.020 | 0075 | - | Rel-6 | F | TEI6 | revised |
| S3-234993 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | 43.020 | 0075 | 1 | Rel-6 | F | TEI6 | agreed |
| S3-234964 | Prohibition of GEA1 and GEA2 due to security concerns | VODAFONE | 43.020 | 0076 | - | Rel-7 | A | TEI6 | revised |
| S3-234994 | Prohibition of GEA1 and GEA2 due to security concerns | VODAFONE | 43.020 | 0076 | 1 | Rel-7 | A | TEI6 | agreed |
| S3-234965 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | 43.020 | 0077 | - | Rel-8 | A | TEI6 | revised |
| S3-234995 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | 43.020 | 0077 | 1 | Rel-8 | A | TEI6 | agreed |
| S3-234966 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | 43.020 | 0078 | - | Rel-9 | A | TEI6 | revised |
| S3-234996 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | 43.020 | 0078 | 1 | Rel-9 | A | TEI6 | agreed |
| S3-234967 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | 43.020 | 0079 | - | Rel-10 | A | TEI6 | revised |
| S3-234997 | Prohibition of GEA1 and GEA2 due to security concerns | Vodafone | 43.020 | 0079 | 1 | Rel-10 | A | TEI6 | agreed |
| S3-234968 | Prohibition of GEA1 and GEA2 due to security concerns | VODAFONE | 43.020 | 0080 | - | Rel-11 | A | TEI6 | revised |
| S3-234974 | Prohibition of GEA2 due to security concerns | Vodafone | 43.020 | 0080 | 1 | Rel-11 | F | TEI11 | revised |
| S3-235002 | Prohibition of GEA2 due to security concerns | Vodafone | 43.020 | 0080 | 2 | Rel-11 | A | TEI6 | agreed |
| S3-234969 | Prohibition of GEA2 due to security concerns | Vodafone | 43.020 | 0081 | - | Rel-12 | F | TEI12 | revised |
| S3-234998 | Prohibition of GEA2 due to security concerns | Vodafone | 43.020 | 0081 | 1 | Rel-12 | A | TEI6 | agreed |
| S3-234970 | Prohibition of GEA2 due to security concerns | Vodafone | 43.020 | 0082 | - | Rel-13 | A | TEI12 | revised |
| S3-234999 | Prohibition of GEA2 due to security concerns | Vodafone | 43.020 | 0082 | 1 | Rel-13 | A | TEI6 | agreed |
| S3-234971 | Prohibition of GEA2 due to security concerns | Vodafone | 43.020 | 0083 | - | Rel-14 | A | TEI12 | revised |
| S3-235000 | Prohibition of GEA2 due to security concerns | Vodafone | 43.020 | 0083 | 1 | Rel-14 | A | TEI6 | agreed |
| S3-234972 | Prohibition of GEA2 due to security concerns | Vodafone | 43.020 | 0084 | - | Rel-15 | A | TEI12 | revised |
| S3-235001 | Prohibition of GEA2 due to security concerns | Vodafone | 43.020 | 0084 | 1 | Rel-15 | A | TEI6 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-234440 |  | N32 Race conditions and recovery | GSMA | noted | (none) |
| S3-234441 |  | LS reply to S3-233786 and S3-234296 on the introduction of the domain ""ipxnetwork.org"" and clarifications of the Outsourced SEPP and Hosted SEPP deployment scenarios | GSMA | postponed | (none) |
| S3-234442 |  | N32-f Lifetime and Reconnection | GSMA | noted | (none) |
| S3-234443 |  | N32-f N32-c correlation | GSMA | noted | (none) |
| S3-234444 |  | LS on Educational paper on N32 connection establishment for bilateral TLS | GSMA | replied to | S3-235068 |
| S3-234445 |  | LS on Handling of SOR counter and the UE parameter update counter if stored in NVM | C1-232696 | replied to | S3-235053 |
| S3-234446 |  | Reply LS on UPU enhancement | C1-235532 | noted | (none) |
| S3-234447 |  | Reply LS on Mitigation of Downgrade attacks | C1-236517 | replied to | S3-234991 |
| S3-234448 |  | LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE | C1-236521 | replied to | S3-235071 |
| S3-234449 |  | LS on procedures for UE discovery for Ranging\_SL | C1-236527 | noted | (none) |
| S3-234450 |  | LS on LPP message and supplementary service event report over a user plane connection between UE and LMF | C1-236562 | noted | (none) |
| S3-234451 |  | LS on Trigger for secure user plane establishment via user plane | C1-237891 | noted | (none) |
| S3-234452 |  | LS on 5G ProSe UE-to-UE relay discovery with security aspects | C1-237897 | noted | (none) |
| S3-234453 |  | LS on Retrieving keys for decryption of protected IEs for U2N relay | C1-234362 | replied to | S3-235098 |
| S3-234454 |  | LS on security for 5G ProSe UE-to-network relay discovery | C1-237900 | replied to | S3-234992 |
| S3-234455 |  | LS on key and security materials used for Ranging\_SL | C1-237928 | replied to | S3-235075 |
| S3-234456 |  | LS on supporting resource owner-aware northbound API access | C3-234640 | replied to | S3-235003 |
| S3-234457 |  | LS on AKMA service restrictions in Rel-17 | C3-232563 | postponed | ???? |
| S3-234458 |  | IETF HTTP RFCs obsoleted by RFCs 9110, 9111 and 9113 | C4-233513 | noted | (none) |
| S3-234459 |  | Reply LS on Authorization of NF service consumers for data access via DCCF | C4-233596 | noted | (none) |
| S3-234460 |  | Reply LS on N32 Race conditions and recovery | C4-234663 | withdrawn | (none) |
| S3-234461 |  | LS on modifications for PRINS middle box | C4-234666 | noted | (none) |
| S3-234462 |  | LS on Authentication Result Removal | C4-224418 | replied to | S3-235099 |
| S3-234463 |  | LS on Removal of the uavAuthenticated IE from Create SM Context Request | C4-230790 | postponed | (none) |
| S3-234464 |  | CVD-2023-0075 - Certificate validation on IMS access interface | GSMA | postponed | (none) |
| S3-234465 |  | Invalid Curve Attack on the 5G SUCI Privacy | GSMA | noted | (none) |
| S3-234466 |  | CVD-2023-0069 - 5G Core Network Attacks | GSMA | postponed | S3-234869 |
| S3-234467 |  | LS to 3GPP re Monitoring of Encrypted 5GS Signalling Traffic | GSMA | replied to | S3-235009 |
| S3-234468 |  | LS on a Framework for Network Slices in Networks Built from IETF Technologies Submission | IETF | noted | (none) |
| S3-234469 |  | LS on user consent for SON/MDT for NB-IoT UEs | R2-2309030 | replied to | S3-235004 |
| S3-234470 |  | Reply LS to SA2 on Sidelink positioning procedure | R2-2309119 | noted | (none) |
| S3-234471 |  | Reply LS on security for selective SCG activation | R2-2309268 | replied to | S3-235051 |
| S3-234472 |  | Reply LS on QMC support in RRC\_IDLE and RRC\_INACTIVE | R2-2311409 | noted | (none) |
| S3-234473 |  | LS on Reporting of Relay UE C-RNTI and NCGI | R2- 2306693 | replied to | S3-235005 |
| S3-234474 |  | Reply LS on DTLS for SCTP next steps and request for input | R3-234497 | noted | (none) |
| S3-234475 |  | LS on QMC support in RRC\_IDLE and RRC\_INACTIVE | R3-234745 | replied to | S3-235102 |
| S3-234476 |  | LS on Roaming Hub Requirements | S1-232654 | noted | (none) |
| S3-234477 |  | DNS over TLS (DoT) and DNS over HTTPS (DoH) | S2-2306210 | replied to | S3-235073 |
| S3-234478 |  | Reply LS on Clarification on Removal of the Indicator of UUAA result from AMF | S2-2309697 | postponed | (none) |
| S3-234479 |  | Clarification related to reliable location | S2-2309698 | postponed | ???? |
| S3-234480 |  | Reply LS on LS on UE Ranging/SL Positioning privacy profile | S2-2309830 | noted | (none) |
| S3-234481 |  | Reply LS on Reply LS on security aspects for Ranging/Sidelink Positioning | S2-2310025 | replied to | S3-235078 |
| S3-234482 |  | Reply LS on procedures for UE discovery for Ranging\_SL | S2-2311767 | replied to | S3-235075 |
| S3-234483 |  | LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE | S2-2311800 | replied to | S3-235071 |
| S3-234484 |  | LS on the progress of 5WWC\_Ph2 normative work | S2-2311801 | noted | (none) |
| S3-234485 |  | Reply LS on NSWO support in SNPN using CH AAA server | S2-2311815 | replied to | S3-235109 |
| S3-234486 |  | LS on MSISDN exposure to trusted AF | S2-2311893 | postponed | (none) |
| S3-234487 |  | Reply LS on ProSe Secondary Authentication | S2-2307743 | noted | (none) |
| S3-234488 |  | Non-Support of Ciphering Algorithm GEA2 | GCF | postponed | (none) |
| S3-234489 |  | LS on LI for AKMA in roaming | s3i230421 | replied to | S3-234987 |
| S3-234490 |  | Reply LS on Security Context Transfer between MBSF and MBSTF | S4-231485 | noted | (none) |
| S3-234491 |  | Reply to LS on 3GPP work on energy efficiency | S5-235778 | noted | (none) |
| S3-234492 |  | Reply LS on user consent of Non-public Network | S5-236928 | noted | (none) |
| S3-234493 |  | Security for AI ML management capabilities | S5-234776 | replied to | S3-235101 |
| S3-234494 |  | LS reply on Support of multiple UEs in Northbound APIs | S6-233104 | noted | (none) |
| S3-234495 |  | LS on developing a security solution for PINAPP architecture | S6-233112 | replied to | S3-235074 |
| S3-234496 |  | LS to SA, SA3 and SA5 on potential collaboration between 3GPP SA3/SA5 and ETSI SAI ISG | ETSI ISG SAI | replied to | S3-235007 |
| S3-234497 |  | LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond | ITU-T | replied to | S3-235006 |
| S3-234498 |  | LS on work progress on X.1818 (ex. X.5Gsec-ctrl) “Security controls for operation and maintenance of IMT-2020/5G network systems” | ITU-T | noted | (none) |
| S3-234499 |  | LSOut Reply to 3GPP Reply LS on Authenticated Vulnerability Testing | ETSI ISG NFV | replied to | S3-235008 |
| S3-234500 |  | Reply LS on Roaming Hubs | SP-231203 | noted | (none) |
| S3-234976 |  | LS to include Source and Destination Interface Type for Indirect DL Data Forwarding Tunnel related N4 requests | s3i230618 | noted | (none) |
| S3-234977 |  | LS on NAS Cause Value - Unspecified | s3i230621 | noted | (none) |
| S3-234978 |  | SAGE-23-02 Resynchronisation protection f5\*\* for MILENAGE-128 and Tuak. | ETSI SAGE | postponed | (none) |
| S3-234979 |  | Reply LS on security for selective SCG activation | R2-2311618 | replied to | S3-235051 |
| S3-234980 |  | Reply LS on N32 Race conditions and recovery | C4-234663 | noted | (none) |
| S3-234989 |  | Elaborated LS reply to S3-234350 on Roaming Hub requirements as applicable to the Modified PRINS solution | GSMA | postponed | (none) |
| S3-234990 |  | Elaborated LS reply to S3-234350 on IPX Service Hub requirements as applicable to the Modified PRINS solution | GSMA | postponed | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-234987 | Reply to: LS on LI for AKMA in roaming | SA3-LI | CT3,GSMA FASG | S3-234489 |
| S3-234991 | LS reply for Reply LS on Mitigation of Downgrade attacks | CT1 | RAN2 | S3-234447 |
| S3-234992 | LS reply on security for 5G ProSe UE-to-network relay discovery | CT1 | SA2 | S3-234454 |
| S3-235003 | LS-reply to CT3 on SNAAPPY | CT3 | SA6 | S3-234456 |
| S3-235004 | LS reply for LS on user consent for SON/MDT for NB-IoT UEs | RAN2 | SA5 | S3-234469 |
| S3-235005 | LS reply on Reporting of Relay UE C-RNTI and NCGI | RAN2 | - | S3-234473 |
| S3-235006 | Reply to: LS on the proposal for a new work item: Guidelines for increasing security of the AKA protocols in IMT-2020 and beyond | ITU-T SG17 | - | S3-234497 |
| S3-235007 | Reply LS on potential collaboration between 3GPP SA3 and ETSI | ETSI SAI | SA, SA5 | S3-234496 |
| S3-235008 | Reply to: LSOut Reply to 3GPP Reply LS on Authenticated Vulnerability Testing | ETSI ISG NFV | - | S3-234499 |
| S3-235009 | Reply LS on Monitoring of Encrypted 5GS Signalling Traffic | GSMA 5GPKIWP | GSMA 5GMRR, GSMA NRG, GSMA DESS, 3GPP TSG SA WG2, 3GPP TSG SA WG5 | S3-234467 |
| S3-235051 | Reply LS on Security Solution for Selective SCG | 3GPP RAN WG2 | 3GPP RAN WG3 | S3-234979 |
| S3-235053 | Reply LS on Handling of SOR counter and the UE parameter update counter if stored in NVM | CT1 | CT4,CT6 | S3-234445 |
| S3-235067 | LS on PRINS security profiling | GSMA NG 5GMRR | - | - |
| S3-235068 | LS-Reply on N32 connection establishment for bilateral TLS | GSMA NG 5GMRR | CT4 | S3-234444 |
| S3-235071 | Reply to: LS on providing a new 5G-GUTI in the REGISTRATION REJECT message to the UE | CT1 | SA2 | S3-234448 |
| S3-235073 | Reply LS on DNS over TLS (DoT) and DNS over HTTPS (DoH) | SA2 | - | S3-234477 |
| S3-235074 | LS Reply on developing a security solution for PINAPP architecture | SA6 | SA, CT1, CT3 | S3-234495 |
| S3-235075 | Reply LS on key and security materials used for Ranging\_SL | CT1 | SA2 | S3-234455 |
| S3-235076 | Ls on uniqueness of Prose U2NRSC | SA2 | - |  |
| S3-235078 | Reply LS on security aspects for Ranging/Sidelink Positioning | SA2,RAN2 | - | S3-234481 |
| S3-235098 | Reply LS on Retrieving keys for decryption of protected IEs for U2N relay | CT1 | SA2 | S3-234453 |
| S3-235099 | Reply LS on Authentication Result Removal | CT4 | - | S3-234462 |
| S3-235101 | LS reply for Security for AI ML management capabilities | SA5 | - | S3-234493 |
| S3-235102 | LS reply for LS on QMC support in RRC\_IDLE and RRC\_INACTIVE | RAN3 | RAN2, SA2, SA5 | S3-234475 |
| S3-235109 | Reply LS on NSWO support in SNPN using CH AAA server | SA2 | CT1, CT4 | S3-234485 |
| S3-235110 | LS on Model Sharing With MTLF | SA2 | - | - |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S3-235084 | New SID on 5GS enhancements for Energy Saving | Nokia, Nokia Shanghai Bell, Telecom Italia, OPPO | SID new |
| S3-235085 | New SID on the security support for the Next Generation Real Time Communication services Phase 2 | Ericsson | SID new |
| S3-235087 | New SID on security for PLMN hosting a NPN | China Telecommunications, CableLabs, ZTE, CATT, China Unicom, Apple, China Mobile, Oppo, Lenovo | SID new |
| S3-235089 | New SID on enablers for Zero Trust Security | Lenovo, Motorola Mobility, MITRE, Interdigital, Motorola Solutions, Charter Communications, Johns Hopkins University APL, Intel, US National Security Agency, Telefonica, NCSC, OTD\_US, Deutsche Telekom, Keysight Technologies, Center for Internet Security, | SID new |
| S3-235090 | Study of ACME for Automated Certificate Management in SBA | Cisco Systems, Google, Mavenir, CableLabs, Charter Communications, AT&T, Microsoft, TELUS, DISH Network, Deutsche Telekom, Johns Hopkins University APL | SID new |
| S3-235091 | New SID on study on enabling a cryptographic algorithm transition to 256 bits | KDDI Corporation | SID new |
| S3-235096 | New study proposal on Mitigations on Bidding Down Attack | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | SID new |
| S3-235103 | Study on Security Aspects of 5G Satellite Access Phase 2 | CATT, Nokia, Xiaomi, CAICT, China Mobile, China Unicom, ZTE, Deutsche Telekom, Thales, China Telecommunications, Samsung, Sectra Communications | SID new |
| S3-235105 | New SID on security enhancement for mobility over non-3GPP access to avoid full primary authentication | Nokia, Nokia Shanghai Bell, CableLabs, Charter Communications, Broadcom, Lenovo, Xiaomi, ChinaMobile, Google, ZTE, Apple Keysight Technologies, LGE, Rogers Communications, Philips International B.V., IIT Delhi, Intel Corporation (UK) Ltd | SID new |
| S3-235057 | New WID on mission critical security enhancements for release 19 | Motorola Solutions Germany | WID new |
| S3-235072 | New WID on Milenage-256 algorithm | THALES, Idemia, NIST, ORANGE, Nokia, Telecom Italia | WID new |
| S3-235094 | New WID on 3GPP profiles for cryptographic algorithms and security protocols | Ericsson | WID new |
| S3-234503 | Modified PRINS for roaming service providers in 5G | Verizon UK Ltd | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-234424 | 35.240 | 0.1.0 | Introduction of the Snow 5G 256-bits algorithm specification |
| S3-234425 | 35.241 | 0.1.0 | Introduction of the Snow 5G 256-bits implementers’ test data |
| S3-234426 | 35.242 | 0.1.0 | Introduction of the Snow 5G 256-bits design conformance test data |
| S3-234427 | 35.243 | 0.1.0 | Introduction of the AES 256-bits algorithm specification |
| S3-234428 | 35.244 | 0.1.0 | Introduction of the AES 256-bits implementers’ test data |
| S3-234429 | 35.245 | 0.1.0 | Introduction of the AES 256-bits design conformance test data |
| S3-234430 | 35.246 | 0.1.0 | Introduction of the ZUC based 256-bits algorithm specification |
| S3-234431 | 35.247 | 0.1.0 | Introduction of the ZUC 256-bits implementers’ test data |
| S3-234432 | 35.248 | 0.1.0 | Introduction of the ZUC 256-bits design conformance test data |
| S3-234674 | 33.529 | 0.1.0 | TS 33.529 Skeleton for Security Assurance Specification for Short Message Service Function (SMSF) |
| S3-235044 | 33.529 | 0.2.0 | Draft TS 33.529 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Dr. | Ahmadi | Samim | umlaut | umlaut |
| Mr. | Ai | Ming | CATT | CICT |
| Mr. | Andreas | Joerg | BSI (DE) | BSI (DE) |
| Dr. | Baskaran | Sheeba Backia Mary | Motorola Mobility Germany GmbH | Lenovo Future Communications |
| Dr. | Ben Henda | Noamen | Huawei Technologies Sweden AB | HUAWEI Technologies Japan K.K. |
| Mr. | Bhatt | Rakshesh P. | Nokia Japan | Nokia Belgium |
| Mr. | Biju | Goel | BT plc | BT plc |
| Mr. | Bilca | Michael | OTD\_US | OTD\_US |
| Mr. | Bjerrum | Bo Holm | Nokia Corporation | Nokia Denmark |
| Mr. | Brusilovsky | Alec | InterDigital, Inc. | InterDigital Communications |
| Mr. | Buckley | Adrian | OGC | MITRE Corporation |
| Dr. | Calcev | George | Futurewei Technologies | Futurewei |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Mr. | Canterbury | Mark | Tencastle Limited | National Technical Assistance |
| Ms. | Carducci | Candace | Johns Hopkins University APL | Johns Hopkins University APL |
| Dr. | Cetinkaya | Egemen | Verizon UK Ltd | Verizon Sweden |
| Mr. | Chen | Ben | BJTU | BJTU |
| Mr. | Cho | Daniel | Ericsson LM | Ericsson Telecomunicazioni SpA |
| Ms. | Cho | Min Kyoung | Deloitte Tohmatsu Cyber LLC | KDDI Corporation |
| Mr. | Choi | Hongjin | Samsung R&D Institute UK | SAMSUNG R&D INSTITUTE JAPAN |
| Mr. | Cichonski | Jeff | NIST | NIST |
| Mr. | Cong | Shi | Guangdong OPPO Mobile Telecom. | Chengdu OPPO Telecommunication |
| Dr. | Corbett | Cherita | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Diaz | Edward | Verizon UK Ltd | Verizon Denmark |
| Mr. | Doerr | Johannes | BMWK | BMWK |
| Mr. | Doubrava | Michael | BSI (DE) | BSI (DE) |
| Dr. | Escott | Adrian | Qualcomm Germany | Qualcomm Germany |
| Mr. | Ferdi | Samir | InterDigital, Inc. | InterDigital Finland Oy |
| Mr. | Gabay | David | MITRE Corporation | MITRE Corporation |
| Dr. | Gallo | Luigi | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mr. | Gamishev | Todor | Orange | Orange UK |
| Dr. | Garcia-Morchon | Oscar | Philips International B.V. | Philips International B.V. |
| Ms. | Gauthier | Sandrine | Airbus | Airbus |
| Mr. | Goldberg | Martin | U.S. National Security Agency | U.S. National Security Agency |
| Dr. | Grime | Matthew | NCSC | NCSC |
| Ms. | Guo | Ivy | Apple Computer Trading Co. Ltd | Apple Europe Limited |
| Dr. | Guo | Li | Guangdong OPPO Mobile Telecom. | Hangzhou Douku |
| Mr. | Hanhisalo | Markus | Ericsson LM | Ericsson Japan K.K. |
| Mr. | Hasselquist | David | Sectra Communications AB | Sectra Communications AB |
| Mr. | Hoffpauir | Dusty | Charter Communications, Inc | Charter Communications, Inc |
| Miss | Jerichow | Anja | Nokia Germany | Nokia Germany |
| Dr. | Jost | Christine | Ericsson LM | Ericsson-LG Co., LTD |
| Mr. | Kakinada | Achari | Charter Communications, Inc | Charter Communications, Inc |
| Dr. | Kamran | Rashmi | IIT Bombay | IIT Bombay |
| Dr. | Karakoc | Ferhat | Ericsson LM | Ericsson France S.A.S |
| Dr. | Khan | Mohsin | Ericsson LM | L.M. Ericsson Limited |
| Mr. | Khare | Saurabh | Nokia Germany | Nokia Hungary |
| Mr. | Kim | Anbin | LG Electronics France | LG Electronics Polska |
| Dr. | Kim | Hongil | Qualcomm Incorporated | Qualcomm Korea |
| Mr. | Kolekar | Abhijeet | Intel Corporation (UK) Ltd | Intel |
| Ms. | Koser | Elizabeth | U.S. National Security Agency | U.S. National Security Agency |
| Mr. | Kuchibhotla | Ravi | Motorola Mobility UK Ltd. | Motorola Mobile Com Technology |
| Dr. | Kunz | Andreas | Motorola Mobility Germany GmbH | Lenovo (Beijing) Ltd |
| Mr. | Leadbeater | Alex | GSM Association | GSM Association |
| Mr. | Lee | Xiaoyang | CISA ECD | CISA ECD |
| Dr. | Lei | Ao | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECH. GmbH |
| Dr. | Lei | Zander (Zhongding) | HuaWei Technologies Co., Ltd | Huawei Technologies (Korea) |
| Mr. | Li | He | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Device Co., Ltd |
| Mr. | Li | Meng | Guangdong OPPO Mobile Telecom. | Hangzhou Mengyuxiang |
| Dr. | Liang | Henry (Haoran) | Xiaomi Communications | Beijing Xiaomi Software Tech |
| Mr. | Libunao | Gerardo | Verizon UK Ltd | Verizon Spain |
| Dr. | Lim | Taehyung | Samsung R&D Institute UK | Samsung Research America |
| Mr. | LIU | Jianning(Carry) | Beijing Xiaomi Software Tech | Beijing Xiaomi Electronics |
| Miss | Liu | Peilin | ZTE Corporation | ZTE Corporation. |
| Mr. | Liu | Yuze | ZTE Corporation | ZTE JAPAN K.K. |
| Mr. | Loushine | Mike | AT&T | AT&T GNS Belgium SPRL |
| Ms. | Lu | Wei | Xiaomi Technology | Xiaomi EV Technology |
| Mr. | Manganahalli Jayaprakash | Sandesh | TNO | KPN N.V. |
| Mr. | Mangion | Mathieu | ETSI | ETSI |
| Mr. | MAO | Yuxin | Beijing Xiaomi Mobile Software | Xiaomi Communications |
| Mr. | Nair | Suresh | Nokia Germany | Nokia Corporation |
| Dr. | Nakano | Yuto | KDDI Corporation | KDDI Corporation |
| Mr. | Nas | Peter | F5 Networks Inc. | F5 |
| Mrs. | Nisbeth | Daphanie | U.S. National Security Agency | U.S. National Security Agency |
| Dr. | Nuggehalli | Pavan | Google Inc. | Google Inc. |
| Mr. | O'Driscoll | James | NCSC | NCSC |
| Mr. | Orkopoulos | Stawros | Nokia Germany | Nokia France |
| Ms. | Parambath Sasi | NIvedya | Samsung R&D Institute India | Harman GmbH |
| Mr. | Parsel | Mike | T-Mobile USA | T-Mobile USA Inc. |
| Dr. | Pashalidis | Andreas | BSI (DE) | BSI (DE) |
| Mr. | Pätzold | Thomas | Deutsche Telekom AG | Deutsche Telekom AG |
| Mrs. | Pauliac | Mireille | THALES | THALES |
| Mr. | Peinado | German | Nokia Germany | Nokia UK |
| Miss | Ping | Jing | Nokia Germany | Nokia Shanghai Bell |
| Mr. | Rajadurai | Rajavelsamy | Samsung R&D Institute UK | Samsung Electronics Co., Ltd |
| Mr. | Rathod | Niraj | Ericsson LM | Nanjing Ericsson Panda Com Ltd |
| Mr. | Sabah | Noureddine | Philips International B.V. | Philips International B.V. |
| Ms. | Sabater | Susana | VODAFONE Group Plc | VODAFONE Group Plc |
| Mr. | Sajid | Taha | Comcast | Comcast |
| Ing. | Sánchez | Antonio | Keysight Technologies UK Ltd | Keysight Technologies UK Ltd |
| Mr. | Schumacher | Gregory | Peraton Labs | Peraton Labs |
| Mr. | Scribano | Gino | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Shaikh | Imtiaz | Charter Communications, Inc | Charter Communications, Inc |
| Miss | shang | zhengyi | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Ms. | Shen | Yang | Beijing Xiaomi Mobile Software | Xiaomi Technology |
| Mr. | Shi | Yongsheng | Guangdong OPPO Mobile Telecom. | OPPO |
| Mr. | Shyy | DJ | US Department of Homeland | US Department of Homeland |
| Ms. | So | Tricci | OPPO | OnePlus |
| Mr. | Sriram | Sundar | CableLabs | CableLabs |
| Mrs. | Stanetsky | Nataliya | Google Ireland Limited | Google Inc. |
| Dr. | Tan | Peng | OTECH | OTECH |
| Ms. | Tang | Tingfang | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Dr. | Targali | Yousif | Verizon UK Ltd | Verizon UK Ltd |
| Mr. | Vujcic | Dragan | IDEMIA | IDEMIA |
| Dr. | Wan | Tao | CableLabs | CableLabs |
| Ms. | Wang | Chan | Pengcheng laboratory | Pengcheng laboratory |
| Dr. | Wang | Zhibi | InterDigital Communications | InterDigital, Inc. |
| Ms. | Warren | Denisha | U.S. National Security Agency | U.S. National Security Agency |
| Mr. | Whorlow | Colin | NCSC | HOME OFFICE |
| Ms. | Wifvesson | Monica | Ericsson LM | Ericsson Inc. |
| Mr. | Wong | Marcus | OPPO | Guangdong OPPO Mobile Telecom. |
| Mr. | Woodward | Tim | Motorola Solutions Danmark A/S | Motorola Solutions Germany |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Dr. | Xiao | Weimin | Futurewei Technologies | Futurewei Technologies |
| Miss | Xiong | Lihui | OPPO | OPPO (chongqing) Intelligence |
| Mr. | Yang | Ning | OPPO Beijing | OPPO Beijing |
| Mr. | Zhang | Wenfeng | OPPO | Shenzhen Heytap |
| Mr. | Zhou | Wei | CATT | Fiberhome Technologies Group |
| Dr. | Zugenmaier | Alf | NTT DOCOMO INC. | NTT DOCOMO INC.. |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA3#114e-AdHoc | 2024-01-22 | 2024-01-26 | Online | Electronic meeting |  |
| SA3#115 | 2024-02-26 | 2024-03-01 | EU | EU | S3-115 |
| SA3#93-LI | 2024-04-16 | 2024-04-19 | US | US | S3-93-LI |
| SA3#116- | 2024-05-13 | 2024-05-17 | Korea | KR | S3-116 |
| SA3#94-LI | 2024-07-09 | 2024-07-12 | EU | EU | S3-94-LI |
| SA3#117 | 2024-08-26 | 2024-08-30 | EU | EU | S3-117 |
| SA3#118 | 2024-10-07 | 2024-10-11 | India | IN | S3-118 |
| SA3#95-LI | 2024-10-29 | 2024-11-01 | US | US | S3-95-LI |
| SA3#119 | 2024-11-11 | 2024-11-15 | US TBC | US | S3-119 |