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

**Meeting Report  
for  
TSG SA WG3  
meeting: 111**

**Berlin, Germany, 22/05/2023 to 26/05/2023**

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## 1 Agenda and Meeting Objectives

The SA3 Chair welcomed the attendees to the beautiful cosmopolitan city of Berlin.Stawros (Nokia) presented a few slides on the city and practicalities of the meeting location.

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.

**S3-232300 Agenda**

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

**Decision:** The document was **revised to S3-232796**.

**S3-232303 Process for SA3#111**

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

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

**S3-232304 Detail agenda planning for SA3#111**

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

**Decision:** The document was **revised to S3-233214**.

**S3-233214 Detail agenda planning for SA3#111**

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

(Replaces S3-232304)

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

**S3-232796 Agenda**

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

(Replaces S3-232300)

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

## 2 Meeting Reports

**S3-232301 Report from SA3#110adHoc-e**

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

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

**S3-232302 Report from SA3#110**

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

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

**S3-232356 Report to SA3 from SA#99**

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

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

## 3 Reports and Liaisons from other Groups

**S3-232308 Reply LS on UE event reporting over a user plane connection to LCS client or AF**

*Type: LS in For: Information  
 Original outgoing LS: C1-231128, to SA2, cc CT3, SA3  
 Source: C1-231128*

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

**S3-232309 LS on LPP message and supplementary service event report over a user plane connection between UE and LMF**

*Type: LS in For: Information  
 Original outgoing LS: C1-231129, to SA2, cc SA3, RAN2, CT4  
 Source: C1-231129*

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

**S3-232310 Reply LS on clarification of coding of hexadecimal digits in SUCI NAI**

*Type: LS in For: Information  
 Original outgoing LS: C1-231170, to CT6, CT4, cc SA3  
 Source: C1-231170*

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

**S3-232311 Reply LS on 3GPP work on Energy Efficiency**

*Type: LS in For: Information  
 Original outgoing LS: C1-232650, to SA5, cc SA, RAN, CT, SA1, SA2, SA3, SA4, SA6, RAN1, RAN2, RAN3, RAN4, CT3, CT4  
 Source: C1-232650*

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

**S3-232312 LS on Handling of SOR counter and the UE parameter update counter if stored in NVM**

*Type: LS in For: Information  
 Original outgoing LS: C1-232696, to SA3, cc -  
 Source: C1-232696*

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

**S3-232314 Reply LS on 3GPP work on Energy Efficiency**

*Type: LS in For: Information  
 Original outgoing LS: C3-231470, to SA5, cc CT1, CT3, CT4, CT, SA, RAN, SA1, SA2, SA3, SA4, SA6, RAN1, RAN2, RAN3, RAN4  
 Source: C3-231470*

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

**S3-232315 Reply LS on UE event reporting over a user plane connection to LCS client or AF**

*Type: LS in For: Information  
 Original outgoing LS: C3-231717, to SA2, cc SA3, CT1  
 Source: C3-231717*

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

**S3-232316 LS on Authentication Result Removal**

*Type: LS in For: Information  
 Original outgoing LS: C4-224418, to SA3, cc -  
 Source: C4-224418*

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

**S3-232317 LS on Authorization of NF service consumers for data access via DCCF**

*Type: LS in For: Information  
 Original outgoing LS: C4-225161, to SA3, cc CT3  
 Source: C4-225161*

**Decision:** The document was **replied to in S3-233143**.

**S3-232318 Reply-LS on Research highlighting potential negated OAuth policy**

*Type: LS in For: Information  
 Original outgoing LS: C4-230487, to GSMA CVD PoE, cc CT1, CT3, SA3, SA4, SA5  
 Source: C4-230487*

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

**S3-232319 LS Reply on PRINS middle boxes**

*Type: LS in For: Information  
 Original outgoing LS: C4-230547, to GSMA 5GMRR, cc GSMA DESS, 3GPP SA3, 3GPP SA2  
 Source: C4-230547*

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

**S3-232320 Reply LS on Identifier availability for Lawful Interception during Inter-PLMN handover**

*Type: LS in For: Information  
 Original outgoing LS: C4-230628, to SA2, SA3-LI, cc SA3, CT3  
 Source: C4-230628*

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

**S3-232321 Reply-LS on Research highlighting potential need for granular level checks using "Additional scope" under the OAuth2.0 Token Access**

*Type: LS in For: Information  
 Original outgoing LS: C4-230692, to GSMA CVD PoE, cc SA3  
 Source: C4-230692*

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

**S3-232322 LS on Removal of the uavAuthenticated IE from Create SM Context Request**

*Type: LS in For: Information  
 Original outgoing LS: C4-230790, to SA3, cc CT1, SA2  
 Source: C4-230790*

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

**S3-232323 LS on clarification of coding of hexadecimal digits in SUCI NAI**

*Type: LS in For: Information  
 Original outgoing LS: C4-231395, to CT WG1, CT WG6, cc SA WG3  
 Source: C4-231395*

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

**S3-232324 LS on clarification of coding of hexadecimal digits in SUCI NAI**

*Type: LS in For: Information  
 Original outgoing LS: C6-220715, to 3GPP CT WG1, 3GPP CT WG4, cc 3GPP SA WG3  
 Source: C6-220715*

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

**S3-232325 LS to SA3 on security for L2 UE-to-UE relay**

*Type: LS in For: Information  
 Original outgoing LS: R2-2304559, to SA3, cc -  
 Source: R2-2304559*

**Decision:** The document was **replied to in S3-233323**.

**S3-232326 Reply LS on 5G capabilities exposure for factories of the future – identified gaps (5G-ACIA-LS-2022-005 / S2-2302175)**

*Type: LS in For: Information  
 Original outgoing LS: S2-2303304, to SA, cc CT, SA1, SA3, SA5, SA6  
 Source: S2-2303304*

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

**S3-232327 Reply LS on Security architecture for 5G multicast/broadcast services**

*Type: LS in For: Information  
 Original outgoing LS: S2-2303310, to SA3, cc SA4, CT4  
 Source: S2-2303310*

**Decision:** The document was **replied to in S3-233139**.

**S3-233139 Reply to: Reply LS on Security architecture for 5G multicast/broadcast services**

*Type: LS out For: approval  
 to SA2, cc SA4,CT4  
 Source: Huawei*

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

**S3-232328 Reply LS to Reply LS to LS on SL positioning groupcast and broadcast**

*Type: LS in For: Information  
 Original outgoing LS: S2-2305726, to SA3, cc RAN2  
 Source: S2-2305726*

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

**S3-232329 LS on security aspects for Ranging/Sidelink Positioning**

*Type: LS in For: Information  
 Original outgoing LS: S2-2305727, to SA3, cc -  
 Source: S2-2305727*

**Decision:** The document was **replied to in S3-233438**.

**S3-232330 Reply LS to LS to SA2 on Sidelink positioning procedure**

*Type: LS in For: Information  
 Original outgoing LS: S2-2305735, to RAN2, RAN1, cc SA3  
 Source: S2-2305735*

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

**S3-232331 Reply to LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service**

*Type: LS in For: Information  
 Original outgoing LS: S2-2305883, to SA6, SA3, cc -  
 Source: S2-2305883*

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

**S3-232332 DNS over TLS (DoT) and DNS over HTTPS (DoH)**

*Type: LS in For: Information  
 Original outgoing LS: S2-2306210, to SA3, cc -  
 Source: S2-2306210*

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

**S3-232333 Reply LS on security architecture for 5G multicast–broadcast services**

*Type: LS in For: Information  
 Original outgoing LS: S4-230346, to 3GPP SA3, cc 3GPP SA2, 3GPP CT4  
 Source: S4-230346*

**Decision:** The document was **replied to in S3-233439**.

**S3-232334 LS on 3GPP work on Energy Efficiency**

*Type: LS in For: Information  
 Original outgoing LS: S5-232903, to 3GPP TSGs SA, RAN, CT,, cc -  
 Source: S5-232903*

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

**S3-232335 Reply LS on secured and trusted access to the serving PLMN OAM server by a MBSR**

*Type: LS in For: Information  
 Original outgoing LS: S5-233546, to SA2, SA3, cc RAN3  
 Source: S5-233546*

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

**S3-232336 LS on user consent for UE location sharing**

*Type: LS in For: Information  
 Original outgoing LS: S6-230351, to SA3, cc n/a  
 Source: S6-230351*

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

**S3-232337 LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service**

*Type: LS in For: Information  
 Original outgoing LS: S6-230945, to SA2, SA3, cc CT3  
 Source: S6-230945*

**Decision:** The document was **replied to in S3-233140**.

**S3-232338 Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network**

*Type: LS in For: Information  
 Original outgoing LS: S6-231061, to SA3, cc SA2  
 Source: S6-231061*

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

**S3-232339 LS reply to TSG SA on LS 5G-ACIA-LS-2022-005 on 5G capabilities exposure for factories of the future – identified gaps from 5G ACIA**

*Type: LS in For: Information  
 Original outgoing LS: S6-231068, to TSG SA, cc TSG SA WG1, TSG SA WG2, TSG SA WG3, TSG SA WG5, TSG CT  
 Source: S6-231068*

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

**S3-232340 LS on Clarification on KMS provisioning**

*Type: LS in For: Information  
 Original outgoing LS: S6-2314231, to SA3, cc -  
 Source: S6-231423*

**Decision:** The document was **replied to in S3-233410**.

**S3-233410 Reply to: LS on Clarification on KMS provisioning**

*Type: LS out For: approval  
 to SA6  
 Source: Samsung*

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

**S3-232341 LS on resolving the target KMS URI for a migrated MC service user**

*Type: LS in For: Information  
 Original outgoing LS: S6-231552, to SA3, cc -  
 Source: S6-231552*

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

**S3-232342 LS reply on the use of a non-network defined identifier for UE identification**

*Type: LS in For: Information  
 Original outgoing LS: S6-231604, to SA2, cc SA3  
 Source: S6-231604*

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

**S3-232343 Reply LS on 5G capabilities exposure for factories of the future – identified gaps**

*Type: LS in For: Information  
 Original outgoing LS: SP-2303842, to 5G-ACIA, cc 3GPP TSG SA WG1, 3GPP TSG SA WG2, 3GPP TSG SA WG3, 3GPP TSG SA WG5, 3GPP TSG SA WG6, 3GPP TSG CT  
 Source: SP-230384*

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

**S3-232344 LS to 3GPP on GSMA requirements for intermediaries in the roaming ecosystem**

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

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

**S3-232346 LS to 3GPP regarding SCTP-AUTH and DTLS**

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

**Decision:** The document was **replied to in S3-233355**.

**S3-232347 LS to SA3-LI on Volte roaming lawful interception - limitation to provide caller identify if caller activates OIR**

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

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

**S3-232348 LS to inform about the Post Quantum Telco Network Impact Assessment Whitepaper Publication**

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

**Discussion:**

Apple: good proposal for being part of our Rel-19 study on quantum.

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

**S3-232349 Reply LS on Mapping of F1-C IP addresses in the IAB inter-CU topology adaptation and backhaul RLF recovery procedures**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-232166*

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

**S3-232350 Reply LS on lawful interception EPS fallback for 5G inbound roamer**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S3i230149*

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

**S3-232351 LS on addition of filler IEI for User-Data Header**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: s3i230317*

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

**S3-232352 An Invitation to the SA4 Gender Diversity Committee Meetings**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-230431*

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

**S3-232353 Specification of the 256-bit air interface algorithms**

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

**Decision:** The document was **replied to in S3-233212**.

**S3-232354 Reply LS to 3GPP SA2 on analytics exchange between different 5G PLMNs**

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

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

**S3-232355 Reply LS to 3GPP SA2 on UE specific data and analytics exchange between HPLMN and VPLMN**

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

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

**S3-232420 Discussion on Selective SCG**

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

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

**S3-232421 Introduction of Selective SCG Security Mechanisms and Procedures**

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

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

**S3-232422 LS on Security Solution for Selective SCG**

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

**Decision:** The document was **revised to S3-233200**.

**S3-233200 LS on Security Solution for Selective SCG**

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

(Replaces S3-232422)

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

**S3-232428 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 May 2023

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

**S3-232430 LS to 3GPP SA3 on ETSI MEC discussion on possible new requirements for AKMA framework**

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

**Decision:** The document was **replied to in S3-233142**.

**S3-232446 Discussion on security for selective SCG activation**

*Type: discussion For: (not specified)  
 Source: vivo*

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

**S3-232537 LS on Authorization of NF service consumers for data access via DCCF**

*Type: LS out For: Approval  
 to CT4, cc CT3  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: we will align our spec to theirs and tthey will alos have to work on something new.

**Decision:** The document was **revised to S3-233143**.

**S3-233143 LS on Authorization of NF service consumers for data access via DCCF**

*Type: LS out For: Approval  
 to CT4, cc CT3  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232537)

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

**S3-232563 Proposed method for deriving the keys for selective SCG activation**

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

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

**S3-232609 Further input on LS bundle S3-232344 (was S3-231717) from GSMA on roaming requirements**

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

**Discussion:**

Alex (GSMA): on 2017 vs 2023 they refer to expected 5G requirements and the actual 5G deployment. For 6G we should be clear on the difference between commercial requirements and deployment requirements we can actually use. They also commented that there was some urgency for SA3 to reply on this.

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

**S3-232610 Further analysis on LS S3-231721 from GSMA related to L-PRINS**

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

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

**S3-232676 Reply LS on resolving the target KMS URI for a migrated MC service user**

*Type: LS out For: Information  
 to SA6  
 Source: Airbus*

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

**S3-232689 Reply LS on security architecture for 5G multicast–broadcast services**

*Type: LS out For: Approval  
 to SA4, cc SA2,CT4  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233439**.

**S3-233439 Reply LS on security architecture for 5G multicast–broadcast services**

*Type: LS out For: Approval  
 to SA4, cc SA2,CT4  
 Source: Huawei, HiSilicon*

(Replaces S3-232689)

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

**S3-232696 Reply LS on security aspects for Ranging/Sidelink Positioning**

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

**Decision:** The document was **revised to S3-233438**.

**S3-233438 Reply LS on security aspects for Ranging/Sidelink Positioning**

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

(Replaces S3-232696)

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

**S3-232730 Reply LS to RAN2 on security for L2 UE-to-UE relay**

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

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

**S3-232791 Relay LS on DNS over TLS (DoT) and DNS over HTTPS (DoH)**

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

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

**S3-232792 security of selective SCG activation**

*Type: discussion For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-232795 Discussion paper to review L-PRINS with risk benefit trade-off**

*Type: discussion For: Endorsement  
 Source: Ericsson*

**Discussion:**

Ericsson: we support hop by hop with TLS, not PRINS.

Cable Labs: we support hop by hop, evolve PRINS since we don’t agree with its current functionality.

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

**S3-232803 Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks**

*Type: LS out For: (not specified)  
 to GSMA CVD, cc CT1, RAN2  
 Source: Ericsson*

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

**S3-232805 Reply LS to Reply LS on the user consent for trace reporting S3-223162**

*Type: LS out For: Approval  
 to RAN3, cc RAN2, SA5, SA1, RAN  
 Source: Ericsson*

**Discussion:**

Qualcomm: don’t mandate user consent processes to the operator, this is out of scope of 3GPP. We don’t agree with the last sentence.

**Decision:** The document was **revised to S3-233144**.

**S3-233144 Reply LS to Reply LS on the user consent for trace reporting S3-223162**

*Type: LS out For: Approval  
 to RAN3, cc RAN2, SA5, SA1, RAN  
 Source: Ericsson*

(Replaces S3-232805)

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

**S3-232813 SERP-LS on security protection on RRCResumeRequest message**

*Type: LS out For: Approval  
 to RAN, RAN2, RAN3  
 Source: Apple*

**Discussion:**

Qualcomm: we shouldn’t send an LS every time we agree on a CR. They can check it in Plenary.

Apple: this is so RAN groups don’t get confused.

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

**S3-232819 Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network (S6-231061)**

*Type: LS out For: Approval  
 to SA6, cc SA2  
 Source: Apple*

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

**S3-232820 Reply LS on user consent for UE location sharing (S6-230351)**

*Type: LS out For: Approval  
 to SA6  
 Source: Apple*

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

**S3-232837 Reply LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service**

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

**Discussion:**

Qualcomm: trust relationship is not quite right. Ericsson: agreed with Qualcomm on trusting the EAS.

**Decision:** The document was **revised to S3-233140**.

**S3-233140 Reply LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service**

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

(Replaces S3-232837)

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

**S3-232861 [Draft] Reply LS on Secure DNS**

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

**Discussion:**

Nokia: we need more time for this as there are many details to consider.

Qualcomm: don’t mess up with the DNS in 3GPP, it’s not in our scope.

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

**S3-232867 Reply LS on security for L2 UE-to-UE relay**

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

**Decision:** The document was **revised to S3-233323**.

**S3-233323 Reply LS on security for L2 UE-to-UE relay**

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

(Replaces S3-232867)

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

**S3-232879 Comparison of proposals for SCG Addition**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-232916 Reply LS on security for L2 UE-to-UE relay**

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

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

**S3-232923 [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*

**Discussion:**

Lenovo had an alternative response in tdoc 121.

Qualcomm:align with SA2.

Ericsson: we agree with China Mobile.

Interdigital: align with SA2.

Huawei: not clear whethe the feature is present or not in both China Mobile and Lenovo's proposals.

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

**S3-232928 [draft] reply LS on ETSI MEC discussion on possible new requirements for AKMA framework**

*Type: LS out For: Approval  
 to ETSI MEC  
 Source: China Mobile*

**Discussion:**

Qualcomm: they have a misunderstanding of AKMA. Anand sugested to add that we cannot use AAnF as an anchor.

Ericsson: postpone the LS reply, we need more time.

China Mobile: it’s important to clairfy their misunderstanding.

**Decision:** The document was **revised to S3-233142**.

**S3-233142 Reply LS on ETSI MEC discussion on possible new requirements for AKMA framework**

*Type: LS out For: Approval  
 to ETSI MEC  
 Source: China Mobile*

(Replaces S3-232928)

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

**S3-232942 Discussion on Selective SCG activation**

*Type: discussion For: Endorsement  
 Source: OPPO*

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

**S3-232945 Reply-LS on security for L2 UE-to-UE relay**

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

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

**S3-232950 [Draft] Reply LS on security aspects for Ranging/Sidelink Positioning**

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

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

**S3-233015 Reply LS on Authentication Result Removal**

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

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

**S3-233039 Discussion on security for selective SCG activation**

*Type: discussion For: Discussion  
 Source: Samsung*

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

**S3-233054 Reply LS on SCTP-AUTH and DTLS**

*Type: LS out For: Approval  
 to IETF\_TSVWG  
 Source: Ericsson*

**Discussion:**

CableLabs: too much information in here.

Huawei: IETF didn’t ask for a detailed reply like this, there was no action in SA3. Better comment in IETF direclty. No standardization action here.

Qualcomm agreed with Huawei. They are not asking for an analysis.

Ericsson: We can say: "we understand the problem, work on a solution and tell us".

Ericsson: we need some attention from IETF.

**Decision:** The document was **revised to S3-233355**.

**S3-233355 Reply LS on SCTP-AUTH and DTLS**

*Type: LS out For: Approval  
 to IETF\_TSVWG, cc RAN3  
 Source: Ericsson*

(Replaces S3-233054)

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

**S3-233087 Draft Reply LS on specification of the 256-bit air algorithms**

*Type: LS out For: Approval  
 to ETSI SAGE  
 Source: THALES, Idemia*

**Abstract:**

Proposes Reply LS to ETSI SAGE regarding Milenage-256.

**Discussion:**

Ericsson didn’t agree with this LS. Nokia either.

Qualcomm: why is ETSI SAGE not following our request? We support sending this LS.SAGE should tell us if there are any security issues by LS and not work on something different.

IDEMIA: we just want to reiterate what our preference is.

**Decision:** The document was **revised to S3-233212**.

**S3-233212 Draft Reply LS on specification of the 256-bit air algorithms**

*Type: LS out For: Approval  
 to ETSI SAGE  
 Source: THALES, Idemia*

(Replaces S3-233087)

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

**S3-233120 Discussion on UUAA determination**

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

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

**S3-233121 LS on UUAA Status Information availability for SMF\_Response to C4-230790**

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

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

**S3-233308 Ls on further input to address GSMA LS on requirements for intermediaries in the roaming ecosystem (S323244)**

*Type: LS out For: Approval  
 to SA, cc CT4,SA1,SA2  
 Source: Nokia*

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

**S3-233322 LS to SA2 on clarification on removal of the indicator of UUAA result from AMF**

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

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

**S3-233349 Discussion on roaming requirements collection**

*Type: discussion For: discussion  
 Source: Nokia*

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

## 4 Work areas (Rel-18)

### 4.1 New WID on Security Assurance Specification for Management Function (MnF)

**S3-232402 Remove EN on RBAC**

*Type: pCR For: Approval  
 33.526 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232403 HTTP methods for Webservers**

*Type: pCR For: Approval  
 33.526 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232404 no directory listings**

*Type: pCR For: Approval  
 33.526 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232405 traffic separation**

*Type: pCR For: Approval  
 33.526 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232406 Exceptions for Client Authentication**

*Type: pCR For: Approval  
 33.526 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232436 Robustness interfaces and protocols defined for MnF**

*Type: other For: Approval  
 33.526 v..  
 Source: Keysight Technologies UK Ltd*

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

**S3-232757 Annex for MnF product class**

*Type: CR For: Agreement  
 33.926 v17.6.0 CR-0070 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232758 Cleanups for MnF SCAS**

*Type: pCR For: Approval  
 33.526 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-232759 Clause 4.3 updates for MnF SCAS**

*Type: pCR For: Approval  
 33.526 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233153**.

**S3-233153 Clause 4.3 updates for MnF SCAS**

*Type: pCR For: Approval  
 33.526 v1.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232759)

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

**S3-232779 Clause 4.2.2 updates for MnF SCAS**

*Type: pCR For: Approval  
 33.526 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233201**.

**S3-233201 Clause 4.2.2 updates for MnF SCAS**

*Type: pCR For: Approval  
 33.526 v1.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232779)

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

**S3-233199 Draft TS 33.526**

*Type: draft TS For: Approval  
 33.526 v1.1.0  
 Source: Huawei*

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

**S3-233234 Cover sheet TS 33.526**

*Type: TS or TR cover For: Approval  
 33.526 v..  
 Source: Huawei*

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

### 4.2 New WID on SECAM and SCAS for 3GPP virtualized network products

**S3-232424 Proposed new Test Cases on SCAS for VNP**

*Type: pCR For: Approval  
 33.527 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232917 adding description about security requirements of Traffic separation to clause 4.3**

*Type: pCR For: Approval  
 33.527 v0.2.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-233336**.

**S3-233336 adding description about security requirements of Traffic separation to clause 4.3**

*Type: pCR For: Approval  
 33.527 v0.2.0  
 Source: China Mobile*

(Replaces S3-232917)

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

**S3-232918 adding description about security requirements of separation of inter-VNF and intra-VNF traffic to clause 4.3**

*Type: pCR For: Approval  
 33.527 v0.2.0  
 Source: China Mobile*

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

**S3-232919 Editorial fix about section number**

*Type: pCR For: Approval  
 33.527 v0.2.0  
 Source: China Mobile, Nokia*

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

**S3-232920 Presentation of TS33.527 to TSG for information and approval**

*Type: TS or TR cover For: Approval  
 33.527 v0.2.0  
 Source: China Mobile*

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

**S3-233202 draft TS 33.527**

*Type: draft TS For: discussion  
 33.527 v0.3.0  
 Source: China Mobile*

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

### 4.3 New WID on Mission critical security enhancements phase 3

### 4.4 New WID on Security Assurance Specification (SCAS) for 5G Rel-17 Features

**S3-232431 Living doc to SCAS UPF**

*Type: draftCR For: Approval  
 33.513 v17.1.0  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Living doc to TS 33.513

**Decision:** The document was **revised to S3-233391**.

**S3-233391 Living doc to SCAS UPF**

*Type: draftCR For: Approval  
 33.513 v17.1.0  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232431)

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

**S3-233392 Changes for SCAS UPF for Rel18**

*Type: CR For: Agreement  
 33.513 v17.1.0 CR-0013 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

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

**S3-232432 Living doc for SCAS gNB**

*Type: draftCR For: Approval  
 33.511 v17.3.0  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Living doc for SCAS gNB

**Decision:** The document was **revised to S3-233339**.

**S3-233339 Living doc for SCAS gNB**

*Type: draftCR For: Approval  
 33.511 v17.3.0  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232432)

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

**S3-233447 Changes for SCAS gNB for Rel18**

*Type: CR For: Agreement  
 33.511 v17.3.0 CR-0044 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

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

**S3-232433 Summary table for changes in robustness testing**

*Type: discussion For: Information  
 Source: Keysight Technologies UK Ltd*

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

**S3-232434 Robustness interfaces and protocols defined for gNodeB**

*Type: other For: Approval  
 33.511 v..  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233340**.

**S3-233340 Robustness interfaces and protocols defined for gNodeB**

*Type: other For: Approval  
 33.511 v..  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232434)

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

**S3-232435 Robustness interfaces and protocols defined for UPF**

*Type: other For: Approval  
 33.513 v..  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233411**.

**S3-233411 Robustness interfaces and protocols defined for UPF**

*Type: other For: Approval  
 33.513 v..  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232435)

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

**S3-232440 Robustness interfaces and protocols defined for AAnF**

*Type: CR For: Approval  
 33.537 v18.0.1 CR-0002 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233412**.

**S3-233412 Robustness interfaces and protocols defined for AAnF**

*Type: CR For: Approval  
 33.537 v18.0.1 CR-0002 rev 1 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232440)

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

**S3-232441 Robustness interfaces and protocols defined for AMF**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0024 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233413**.

**S3-233413 Robustness interfaces and protocols defined for AMF**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0024 rev 1 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232441)

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

**S3-232442 Robustness interfaces and protocols defined for AUSF**

*Type: CR For: Approval  
 33.516 v17.0.0 CR-0005 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233414**.

**S3-233414 Robustness interfaces and protocols defined for AUSF**

*Type: CR For: Approval  
 33.516 v17.0.0 CR-0005 rev 1 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232442)

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

**S3-232443 Robustness interfaces and protocols defined for N3IWF**

*Type: other For: Approval  
 33.520 v..  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233415**.

**S3-233415 Robustness interfaces and protocols defined for N3IWF**

*Type: other For: Approval  
 33.520 v..  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232443)

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

**S3-232444 Robustness interfaces and protocols defined for NEF**

*Type: CR For: Approval  
 33.519 v17.0.0 CR-0004 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233416**.

**S3-233416 Robustness interfaces and protocols defined for NEF**

*Type: CR For: Approval  
 33.519 v17.0.0 CR-0004 rev 1 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232444)

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

**S3-232445 Robustness interfaces and protocols defined for NRF**

*Type: CR For: Approval  
 33.518 v17.0.0 CR-0003 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233417**.

**S3-233417 Robustness interfaces and protocols defined for NRF**

*Type: CR For: Approval  
 33.518 v17.0.0 CR-0003 rev 1 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232445)

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

**S3-232447 Robustness interfaces and protocols defined for NWDAF**

*Type: CR For: Approval  
 33.521 v17.2.0 CR-0004 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233418**.

**S3-233418 Robustness interfaces and protocols defined for NWDAF**

*Type: CR For: Approval  
 33.521 v17.2.0 CR-0004 rev 1 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232447)

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

**S3-232448 Robustness interfaces and protocols defined for SCP**

*Type: CR For: Approval  
 33.522 v17.1.0 CR-0003 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233419**.

**S3-233419 Robustness interfaces and protocols defined for SCP**

*Type: CR For: Approval  
 33.522 v17.1.0 CR-0003 rev 1 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232448)

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

**S3-232449 Robustness interfaces and protocols defined for SEPP**

*Type: CR For: Approval  
 33.517 v17.0.0 CR-0011 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233420**.

**S3-233420 Robustness interfaces and protocols defined for SEPP**

*Type: CR For: Approval  
 33.517 v17.0.0 CR-0011 rev 1 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232449)

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

**S3-232450 Robustness interfaces and protocols defined for SMF**

*Type: CR For: Approval  
 33.515 v17.0.0 CR-0009 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233421**.

**S3-233421 Robustness interfaces and protocols defined for SMF**

*Type: CR For: Approval  
 33.515 v17.0.0 CR-0009 rev 1 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232450)

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

**S3-232451 Robustness interfaces and protocols defined for UDM**

*Type: CR For: Approval  
 33.514 v17.0.0 CR-0006 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233422**.

**S3-233422 Robustness interfaces and protocols defined for UDM**

*Type: CR For: Approval  
 33.514 v17.0.0 CR-0006 rev 1 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232451)

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

**S3-232747 Living document for TR33.926**

*Type: draftCR For: Approval  
 33.926 v17.6.0  
 Source: Huawei, HiSilicon*

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

**S3-233211 SCAS updates to threats and assets for Release 17 features**

*Type: CR For: Agreement  
 33.926 v17.6.0 CR-0074 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232748 Living doc of TS 33.216**

*Type: draftCR For: Approval  
 33.216 v17.0.0  
 Source: Huawei, HiSilicon*

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

**S3-233238 Updates to eNB SCAS for the support of UP IP**

*Type: CR For: Agreement  
 33.216 v17.0.0 CR-0025 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232749 Living doc of TS 33.117**

*Type: draftCR For: Approval  
 33.117 v17.3.0  
 Source: Huawei, HiSilicon*

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

**S3-233239 SCAS updates to the general catalogue for Release 17 features**

*Type: CR For: Agreement  
 33.117 v17.3.0 CR-0120 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232760 SCAS reference correction work summary**

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

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

**S3-232761 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.537 v18.0.1 CR-0003 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233252**.

**S3-233252 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.537 v18.0.1 CR-0003 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232761)

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

**S3-232762 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.512 v17.3.0 CR-0037 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233253**.

**S3-233253 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.512 v17.3.0 CR-0037 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232762)

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

**S3-232763 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.522 v17.1.0 CR-0004 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232764 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.519 v17.0.0 CR-0005 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233254**.

**S3-233254 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.519 v17.0.0 CR-0005 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232764)

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

**S3-232765 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.518 v17.0.0 CR-0004 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232766 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.517 v17.0.0 CR-0012 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233255**.

**S3-233255 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.517 v17.0.0 CR-0012 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232766)

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

**S3-232767 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.516 v17.0.0 CR-0006 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232768 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.515 v17.0.0 CR-0010 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233256**.

**S3-233256 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.515 v17.0.0 CR-0010 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232768)

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

**S3-232769 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.514 v17.0.0 CR-0007 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233257**.

**S3-233257 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.514 v17.0.0 CR-0007 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232769)

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

**S3-232770 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.513 v17.1.0 CR-0010 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233258**.

**S3-233258 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.513 v17.1.0 CR-0010 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232770)

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

**S3-232771 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.511 v17.3.1 CR-0042 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233259**.

**S3-233259 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.511 v17.3.1 CR-0042 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232771)

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

**S3-232772 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.117 v17.3.0 CR-0115 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233260**.

**S3-233260 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.117 v17.3.0 CR-0115 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232772)

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

**S3-232773 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.326 v17.0.0 CR-0001 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232774 SCAS release reference corrections**

*Type: CR For: Agreement  
 33.926 v17.6.0 CR-0071 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232780 SCAS release reference corrections to living doc to TS 33.511**

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

**Decision:** The document was **revised to S3-233261**.

**S3-233261 SCAS release reference corrections to living doc to TS 33.511**

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

(Replaces S3-232780)

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

**S3-232781 SCAS release reference corrections to living doc to TS 33.513**

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

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

**S3-232782 living doc for 33.916**

*Type: draftCR For: Approval  
 33.916 v17.0.0  
 Source: Huawei, HiSilicon*

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

**S3-233241 Clarification on SCAS**

*Type: CR For: Agreement  
 33.916 v17.0.0 CR-0012 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

### 4.5 New WID on Security Assurance Specification for the Authentication and Key Management for Applications (AKMA) Anchor Function Function (AAnF)

**S3-232439 Robustness interfaces and protocols defined for AAnF**

*Type: CR For: Approval  
 33.537 v18.0.1 CR-0001 Cat: B (Rel-18)  
  
 Source: Keysight Technologies UK Ltd*

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

**S3-232929 Converting the living document of AAnF SCAS to CR**

*Type: CR For: Agreement  
 33.926 v17.6.0 CR-0073 Cat: B (Rel-18)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S3-233203**.

**S3-233203 Adding critical assest and threats of AAnF**

*Type: CR For: Agreement  
 33.926 v17.6.0 CR-0073 rev 1 Cat: B (Rel-18)  
  
 Source: China Mobile*

(Replaces S3-232929)

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

### 4.6 New WID on SCAS for split-gNB product classes

**S3-232438 Robustness interfaces and protocols defined for gNB-CU-CP**

*Type: other For: Approval  
 33.523 v..  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233330**.

**S3-233330 Robustness interfaces and protocols defined for split-gNB**

*Type: other For: Approval  
 33.523 v..  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232438)

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

**S3-232538 Introducing split gNBs into TR 33.926**

*Type: CR For: Approval  
 33.926 v17.6.0 CR-0066 rev 1 Cat: B (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-231615)

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

**S3-232539 Overview of some split gNB SCAS papers**

*Type: discussion For: Discussion  
 Source: Qualcomm Incoporated*

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

**S3-232540 EditHelp changes for TS 33.523**

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

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

**S3-232541 Removal of release specific aspects from TS 33.523**

*Type: pCR For: Approval  
 33.523 v1.0.1  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233331**.

**S3-233331 Removal of release specific aspects from TS 33.523**

*Type: pCR For: Approval  
 33.523 v1.0.1  
 Source: Qualcomm Incorporated*

(Replaces S3-232541)

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

**S3-232542 Corrections to TS 33.523**

*Type: pCR For: Approval  
 33.523 v1.0.1  
 Source: Qualcomm Incorporated*

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

**S3-232543 Coversheet for TS 33.523**

*Type: TS or TR cover For: Approval  
 33.523 v..  
 Source: Qualcomm Incorporated*

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

**S3-233332 Draft TS 33.523**

*Type: draft TS For: Approval  
 33.523 v1.1.0  
 Source: Qualcomm*

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

### 4.7 Service Based Architecture (Rel-15/16/17)

### 4.8 Security Aspects of Proximity based services in 5GS ProSe (Rel-17)

### 4.9 All topics (Rel-15/16/17/18 )

#### 4.9.1 Security Assurance

**S3-232409 New SCAS test on trust anchoring**

*Type: CR For: Approval  
 33.517 v17.0.0 CR-0010 Cat: B (Rel-17)  
  
 Source: BSI (DE)*

**Abstract:**

New SCAS test on trust anchoring

**Decision:** The document was **revised to S3-232419**.

**S3-232410 Interface Robustness**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0109 Cat: D (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233193**.

**S3-233193 Interface Robustness**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0109 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232410)

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

**S3-232411 Security Event Logging**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0110 Cat: D (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233194**.

**S3-233194 Security Event Logging**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0110 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232411)

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

**S3-232412 Privileged Users**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0111 Cat: D (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233195**.

**S3-233195 Privileged Users**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0111 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232412)

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

**S3-232419 New SCAS test on trust anchoring**

*Type: CR For: Approval  
 33.517 v17.0.0 CR-0010 rev 1 Cat: B (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232409)

**Abstract:**

New SCAS test on trust anchoring

**Decision:** The document was **revised to S3-233244**.

**S3-233244 New SCAS test on trust anchoring**

*Type: CR For: Approval  
 33.517 v17.0.0 CR-0010 rev 2 Cat: B (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232419)

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

**S3-232452 Clarification of synchronization failure handling**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0025 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-232476**.

**S3-232454 Clarification of RES\* verification failure handling**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0026 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

**Decision:** The document was **revised to S3-233130**.

**S3-232456 Clarification of Replay Protection of NAS signalling messages**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0027 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

**Decision:** The document was **revised to S3-233134**.

**S3-232458 Clarification of NAS integrity algorithm selection and use**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0028 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-232504**.

**S3-232459 Clarification of invalid or unacceptable UE security capabilities handling**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0029 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-232477**.

**S3-232461 Clarification of NSSAA revocation**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0030 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

**Decision:** The document was **revised to S3-233204**.

**S3-233204 Clarification of NSSAA revocation**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0030 rev 1 Cat: F (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232461)

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

**S3-232463 Clarification of test applicability**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0031 Cat: D (Rel-17)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-232505**.

**S3-232464 Correction of Tester Instructions in Expected Results**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0032 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-232507**.

**S3-232465 Correction of format of evidence**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0033 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-232506**.

**S3-232466 Clarification of whether tester triggers an event or NF behaviour is observed in an Execution Step**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0034 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-233345**.

**S3-233345 Clarification of whether tester triggers an event or NF behaviour is observed in an Execution Step**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0034 rev 1 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-232466)

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

**S3-232467 New SCAS test on valid UE security capability encoding while AS security establishment**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0035 Cat: B (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

**Decision:** The document was **revised to S3-233205**.

**S3-233205 New SCAS test on valid UE security capability encoding while AS security establishment**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0035 rev 1 Cat: B (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232467)

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

**S3-232468 Threat reference for incorrectly encoded UE 5G security capabilities on the AMF NG interface**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0036 Cat: B (Rel-17)  
  
 Source: BSI (DE)*

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

**S3-232469 Threat reference for incorrectly encoded UE 5G security capabilities on the AMF NG interface**

*Type: CR For: Approval  
 33.926 v17.6.0 CR-0067 Cat: B (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

**Decision:** The document was **revised to S3-233206**.

**S3-233206 Threat reference for incorrectly encoded UE 5G security capabilities on the AMF NG interface**

*Type: CR For: Approval  
 33.926 v17.6.0 CR-0067 rev 1 Cat: B (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232469)

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

**S3-232470 Discussion on specification AMF SCAS test for incorrectly encoding security capabilities**

*Type: discussion For: Discussion  
 Source: BSI (DE)*

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

**S3-232471 Clarification of hashing**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0112 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

**Decision:** The document was **revised to S3-233346**.

**S3-233346 Clarification of hashing**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0112 rev 1 Cat: F (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232471)

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

**S3-232472 Clarification of privilege escalation methods to check for**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0113 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-232474**.

**S3-232473 Clarification of privilege verification**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0114 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

**Decision:** The document was **revised to S3-232475**.

**S3-232474 Clarification of privilege escalation methods to check for**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0113 rev 1 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232472)

**Decision:** The document was **revised to S3-233207**.

**S3-233207 Clarification of privilege escalation methods to check for**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0113 rev 2 Cat: F (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232474)

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

**S3-232475 Clarification of privilege verification**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0114 rev 1 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232473)

**Decision:** The document was **revised to S3-233347**.

**S3-233347 Clarification of privilege verification**

*Type: CR For: Approval  
 33.117 v17.3.0 CR-0114 rev 2 Cat: F (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232475)

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

**S3-232476 Clarification of synchronization failure handling**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0025 rev 1 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

(Replaces S3-232452)

**Decision:** The document was **revised to S3-233208**.

**S3-233208 Clarification of synchronization failure handling**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0025 rev 2 Cat: F (Rel-18)  
  
 Source: BSI (DE)*

(Replaces S3-232476)

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

**S3-232477 Clarification of invalid or unacceptable UE security capabilities handling**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0029 rev 1 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

(Replaces S3-232459)

**Decision:** The document was **revised to S3-232509**.

**S3-232504 Clarification of NAS integrity algorithm selection and use**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0028 rev 1 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232458)

**Decision:** The document was **revised to S3-233135**.

**S3-232505 Clarification of test applicability**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0031 rev 1 Cat: D (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232463)

**Decision:** The document was **revised to S3-233348**.

**S3-233348 Clarification of test applicability**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0031 rev 2 Cat: F (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232505)

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

**S3-232506 Correction of format of evidence**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0033 rev 1 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232465)

**Decision:** The document was **revised to S3-233333**.

**S3-233333 Correction of format of evidence**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0033 rev 2 Cat: F (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232506)

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

**S3-232507 Correction of Tester Instructions in Expected Results**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0032 rev 1 Cat: F (Rel-17)  
  
 Source: BSI (DE)*

(Replaces S3-232464)

**Decision:** The document was **revised to S3-232508**.

**S3-232508 Correction of Tester Instructions in Expected Results**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0032 rev 2 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232507)

**Decision:** The document was **revised to S3-233334**.

**S3-233334 Correction of Tester Instructions in Expected Results**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0032 rev 3 Cat: F (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232508)

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

**S3-232509 Clarification of invalid or unacceptable UE security capabilities handling**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0029 rev 2 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232477)

**Decision:** The document was **revised to S3-233133**.

**S3-232530 ME Change issue correction Solution 2**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1610 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232544 Correcting some references in TS 33.511**

*Type: CR For: Agreement  
 33.511 v16.9.0 CR-0040 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**S3-232545 Correcting some references in TS 33.511**

*Type: CR For: Agreement  
 33.511 v17.3.1 CR-0041 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233117**.

**S3-232546 Correcting some references in TS 33.926**

*Type: CR For: Agreement  
 33.926 v16.7.0 CR-0068 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233129**.

**S3-232547 Correcting some references in TS 33.926**

*Type: CR For: Agreement  
 33.926 v17.6.0 CR-0069 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233118**.

**S3-232775 Correction of annex for NSSAAF product class**

*Type: CR For: Agreement  
 33.926 v17.6.0 CR-0072 Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

The file was corrupted so it was to be brought again next meeting.

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

**S3-232806 Security event logging of username**

*Type: CR For: Agreement  
 33.117 v16.10.0 CR-0116 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Username is not logged when there is incorrect login attempts to the network product.

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

**S3-232809 Security event logging of username**

*Type: CR For: Agreement  
 33.117 v17.3.0 CR-0117 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Username is not logged when there is incorrect login attempts to the network product.

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

**S3-232821 Password expiry**

*Type: CR For: Agreement  
 33.117 v16.10.0 CR-0118 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Update password expiry requirements.

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

**S3-232822 Introduction of user data protection over N3**

*Type: CR For: Approval  
 33.511 v17.3.1 CR-0043 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232823 Password expiry**

*Type: CR For: Agreement  
 33.117 v17.3.0 CR-0119 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Update password expiry requirements.

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

**S3-232843 Correction of SBA test for UPF**

*Type: CR For: Approval  
 33.513 v16.2.0 CR-0011 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-233335**.

**S3-233335 Correction of SBA test for UPF**

*Type: CR For: Approval  
 33.513 v16.2.0 CR-0011 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-232843)

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

**S3-232844 correction of SBA test for UPF-r17**

*Type: CR For: Approval  
 33.513 v17.1.0 CR-0012 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233337**.

**S3-233337 correction of SBA test for UPF-r17**

*Type: CR For: Approval  
 33.513 v17.1.0 CR-0012 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232844)

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

**S3-233117 Correcting some references in TS 33.511**

*Type: CR For: Agreement  
 33.511 v17.3.1 CR-0041 rev 1 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-232545)

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

**S3-233118 Correcting some references in TS 33.926**

*Type: CR For: Agreement  
 33.926 v17.6.0 CR-0069 rev 1 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-232547)

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

**S3-233129 Correcting some references in TS 33.926**

*Type: CR For: Agreement  
 33.926 v16.7.0 CR-0068 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-232546)

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

**S3-233130 Clarification of RES\* verification failure handling**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0026 rev 1 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232454)

**Decision:** The document was **revised to S3-233338**.

**S3-233338 Clarification of RES\* verification failure handling**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0026 rev 2 Cat: F (Rel-18)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-233130)

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

**S3-233133 Clarification of invalid or unacceptable UE security capabilities handling**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0029 rev 3 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232509)

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

**S3-233134 Clarification of Replay Protection of NAS signalling messages**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0027 rev 1 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232456)

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

**S3-233135 Clarification of NAS integrity algorithm selection and use**

*Type: CR For: Approval  
 33.512 v17.3.0 CR-0028 rev 2 Cat: F (Rel-17)  
  
 Source: Federal Office for Information Security (BSI)*

(Replaces S3-232504)

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

#### 4.9.2 Service Based Architecture

**S3-232306 Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC**

*Type: CR For: Agreement  
 33.203 v17.1.0 CR-0269 Cat: F (Rel-18)  
  
 Source: Telekom Deutschland GmbH*

**Abstract:**

Add SAH2 algorithms algorithms 128 and 512\_256 according to RFC 6234.

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

**S3-232606 Draft LS on NFc registration using OAM**

*Type: LS out For: (not specified)  
 to SA5  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huaweii: we don’t need SA5 to define anythiing.

**Decision:** The document was **revised to S3-233351**.

**S3-233351 LS on NFc registration using OAM**

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

(Replaces S3-232606)

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

**S3-232607 Access token request handling by NRF**

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

**Decision:** The document was **revised to S3-233220**.

**S3-233220 Access token request handling by NRF**

*Type: draftCR For: -  
 33.501 v18.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232607)

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

**S3-233352 Access token request handling by NRF**

*Type: CR For: -  
 33.501 v18.1.0 CR-1667 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232608 SBA01 Delegated access token validation**

*Type: CR For: (not specified)  
 33.501 v18.1.0 CR-1615 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232615 PLMN ID in certificate**

*Type: CR For: (not specified)  
 33.310 v18.0.0 CR-0152 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233110**.

**S3-232616 Rel-18 exception sheet for FS\_eSBA\_SEC**

*Type: WI exception request For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232671 Correcting the UUID example in SBA certificates**

*Type: CR For: (not specified)  
 33.310 v18.0.0 CR-0153 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-232672 Correcting the UUID example in SBA certificates**

*Type: CR For: (not specified)  
 33.310 v17.6.0 CR-0154 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-232673 Correcting the UUID example in SBA certificates**

*Type: CR For: (not specified)  
 33.310 v16.13.0 CR-0155 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Nokia needed more time to study this.

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

**S3-232675 Non-critical X.509 subjectAltName and unique DN following RFC 5280**

*Type: CR For: (not specified)  
 33.310 v18.0.0 CR-0156 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-232677 Non-critical X.509 subjectAltName and unique DN following RFC 5280**

*Type: CR For: (not specified)  
 33.310 v17.6.0 CR-0157 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-232678 Non-critical X.509 subjectAltName and unique DN following RFC 5280**

*Type: CR For: (not specified)  
 33.310 v16.13.0 CR-0158 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Nokia: we need one more meeting cycle to study this.

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

**S3-232838 Clarification on data-type encryption policy**

*Type: CR For: Approval  
 33.501 v18.1.0 CR-1634 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233343**.

**S3-233343 Clarification on data-type encryption policy**

*Type: CR For: Approval  
 33.501 v18.1.0 CR-1634 rev 1 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232838)

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

**S3-232840 Correction of authorization between SEPP and network functions**

*Type: CR For: Approval  
 33.501 v18.1.0 CR-1635 Cat: F (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

It was commented that this was a CR implementation mistake and by the process it should be automatically agreed. However this error was coming from a CR from SA3#91, which was quite a long time ago and it had to be checked whether it made sense to include it now.

MCC note: the original misimplemented CR was probably directed to the Rel-16 or earlier version of the specification, so that's the Release where the correction should start.

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

**S3-232878 Clarification of SEPP inter-domain certificate profiles**

*Type: CR For: Agreement  
 33.310 v18.0.0 CR-0159 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-232881 Clarification of SEPP inter-domain certificate profiles**

*Type: CR For: Agreement  
 33.310 v17.6.0 CR-0160 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-232883 Clarification of SEPP inter-domain certificate profiles**

*Type: CR For: Agreement  
 33.310 v16.13.0 CR-0161 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

NTT-Docomo: I need more time to check this, it may be needed to be treated in GSMA DES.

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

**S3-233110 PLMN ID in certificate**

*Type: CR For: (not specified)  
 33.310 v18.0.0 CR-0152 rev 1 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232615)

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

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

**S3-232417 U2N relay direct link setup failure due to RSC mismatch or integrity failure**

*Type: CR For: Agreement  
 33.503 v17.3.0 CR-0097 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

Qualcomm: no need to integrity protect the Direct Communication Reject messages. We don’t see the benefit.

Philips: we agree on this direction, we are not fully sure that the current text is enough to protect agains these attacks.

Interdigital: if we don’t do anything we will provide no solution to CT1.

Xiaomi: CT1 is discussing our LS during this LS. I propose to postpone any action until we know what they came up with.

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

**S3-232617 Correction in 5G ProSe Direct Discovery**

*Type: CR For: Approval  
 33.503 v17.3.0 CR-0098 Cat: F (Rel-17)  
  
 Source: China Telecommunications*

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

**S3-232620 Correction in 5G ProSe Direct Discovery**

*Type: CR For: Approval  
 33.503 v17.3.0 CR-0099 Cat: F (Rel-17)  
  
 Source: China Telecom*

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

**S3-232728 DDNMF selection in UE-to-Network Relay discovery procedure**

*Type: CR For: Agreement  
 33.503 v17.3.0 CR-0100 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-232729 Discussion about DDNMF selection in UE-to-Network Relay discovery procedure**

*Type: discussion For: Endorsement  
 33.503 v..  
 Source: Huawei, HiSilicon*

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

**S3-232731 Clarification on discovery of PKMF of Relay UE by the SMF**

*Type: CR For: Agreement  
 33.503 v17.3.0 CR-0101 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-232793 Fix the restricted discovery procedures in 5G ProSe**

*Type: CR For: Agreement  
 33.503 v17.3.0 CR-0102 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Qualcomm: PDUID is used in SA2 but not in SA3. Just refer to SA2's specification.

**Decision:** The document was **revised to S3-233185**.

**S3-233185 Fix the restricted discovery procedures in 5G ProSe**

*Type: CR For: Agreement  
 33.503 v17.3.0 CR-0102 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232793)

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

**S3-233074 CR to TR33.503 Editorial changes**

*Type: CR For: Approval  
 33.503 v17.3.0 CR-0103 Cat: F (Rel-17)  
  
 Source: CATT*

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

**S3-233075 CR to TR33.503 Define missing reference points**

*Type: CR For: Approval  
 33.503 v17.3.0 CR-0104 Cat: F (Rel-17)  
  
 Source: CATT*

**Discussion:**

Intedigital: somebody will have to bring a contribution to SA2 to align.

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

**S3-233076 4.9.3 - Correction in clause 5.3.3.1.2.3 of TS 33.536**

*Type: CR For: Approval  
 33.536 v17.1.0 CR-0029 Cat: F (Rel-17)  
  
 Source: Philips International B.V.*

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

**S3-233101 Discussion on U2N discovery security procedure**

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

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

**S3-233102 Locate target DDNMF in U2N discovery security procdure**

*Type: CR For: Agreement  
 33.503 v17.3.0 CR-0105 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi*

**Decision:** The document was **revised to S3-233377**.

**S3-233377 Locate target DDNMF in U2N discovery security procdure**

*Type: CR For: Agreement  
 33.503 v17.3.0 CR-0105 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi*

(Replaces S3-233102)

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

**S3-233103 Update discovery key response of U2N discovery security procdure**

*Type: CR For: Agreement  
 33.503 v17.3.0 CR-0106 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-233104 Discussion on separation of U2N discovery security procedure**

*Type: discussion For: Endorsement  
 Source: Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi*

**Discussion:**

Qualcomm didn’t agree with these updates.

CATT proposed to postpone this discussion for next meeting. Philips commented that they also needed to review the text more closely.

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

**S3-233105 Direct discovery security procdure**

*Type: CR For: Agreement  
 33.503 v17.3.0 CR-0107 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi*

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

**S3-233106 UE to Network Relay discovery security procdure**

*Type: CR For: Agreement  
 33.503 v17.3.0 CR-0108 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi*

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

**S3-233128 4.9.3 - Correction in clause 5.3.3.1.2.3 of TS 33.536**

*Type: draftCR For: Approval  
 33.536 v17.1.0  
 Source: Philips International B.V.*

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

#### 4.9.4 Mission Critical

#### 4.9.5 Authentication and key management for applications based on 3GPP credential in 5G

**S3-232531 AKMA Service disable or withdrawn**

*Type: CR For: Agreement  
 33.535 v17.8.0 CR-0152 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232870 Clarification on the description about AAnF**

*Type: CR For: Agreement  
 33.535 v17.8.0 CR-0153 Cat: F (Rel-17)  
  
 Source: China Telecommunications*

**Discussion:**

Ericsson didn’t agree with the CR.

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

#### 4.9.6 Enhancements to User Plane Integrity Protection Support in 5GS

**S3-232704 Correction on UP IP for EN-DC (R17)**

*Type: CR For: Agreement  
 33.401 v17.3.0 CR-0714 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-232705 Correction on UP IP for EN-DC (R18)**

*Type: CR For: Agreement  
 33.401 v17.3.0 CR-0715 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Not needed as there is no version of TS 33.401.

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

#### 4.9.7 Security Aspects of Enhancements for 5G Multicast-Broadcast Services

**S3-232690 CR on control-plane procedure in MBS**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1619 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson referred to previous talks in conference calls and they preferred another more detailed option that had baeen discussed before.

Qualcomm: there is no consensus on whether we really need to male changes in our specification.

Huawei: add some text that user plane and control plane have different procedures to address Ericsson's concerns.

Samsung was fine with the note.

The Chair commented that instead of expandind unnecessarily the note it was better to add a new sub-clause.

**Decision:** The document was **revised to S3-233165**.

**S3-233165 CR on control-plane procedure in MBS**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1619 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232690)

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

**S3-232691 CR on control-plane procedure in MBS**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1620 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233166**.

**S3-233166 CR on control-plane procedure in MBS**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1620 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232691)

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

#### 4.9.8 Security for enhanced support of Industrial IoT

#### 4.9.9 Security Aspects of eNPN

#### 4.9.10 Security Aspects of Enhancement of Support for Edge Computing in 5GC

**S3-232789 Security for EAS discovery in non-roaming case**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1624 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233341**.

**S3-233341 Security for EAS discovery in non-roaming case**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1624 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232789)

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

**S3-232790 Security for EAS discovery in non-roaming case**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1625 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233342**.

**S3-233342 Security for EAS discovery in non-roaming case**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1625 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232790)

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

#### 4.9.11 Security aspects of Uncrewed Aerial Systems

**S3-232661 Address ENs in revocation procedures**

*Type: CR For: Agreement  
 33.256 v17.2.0 CR-0022 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-233119 TS 33.256 EN Cleanup**

*Type: CR For: Approval  
 33.256 v17.2.0 CR-0023 Cat: F (Rel-17)  
  
 Source: Lenovo*

**Decision:** The document was **revised to S3-233406**.

**S3-233406 TS 33.256 EN Cleanup**

*Type: CR For: Approval  
 33.256 v17.2.0 CR-0023 rev 1 Cat: F (Rel-17)  
  
 Source: Lenovo,Huawei*

(Replaces S3-233119)

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

#### 4.9.12 Others

**S3-232307 Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC**

*Type: CR For: Agreement  
 33.203 v17.1.0 CR-0270 Cat: F (Rel-17)  
  
 Source: Telekom Deutschland GmbH*

**Abstract:**

Add SAH2 algorithms algorithms 128 and 512\_256 according to RFC 6234.

**Decision:** The document was **revised to S3-232808**.

**S3-232520 Discussion paper of UPU implementation gaps**

*Type: discussion For: Information  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232521 Enhancement in UPU procedure to protect UPU header-All 3 solutions**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1602 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Qualcomm: we can focus on current implementations until Rel-17 and then enhance in Rel-18.

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

**S3-232522 Enhancement in UPU procedure to protect UPU header-All 3 solutions**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1603 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232523 Correction in N5CW device authentication**

*Type: CR For: Agreement  
 33.501 v16.14.0 CR-1604 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell,*

**Decision:** The document was **revised to S3-233146**.

**S3-233146 Correction in N5CW device authentication**

*Type: CR For: Agreement  
 33.501 v16.14.0 CR-1604 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell,*

(Replaces S3-232523)

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

**S3-232524 Correction in N5CW device authentication**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1605 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell,*

**Decision:** The document was **revised to S3-233147**.

**S3-233147 Correction in N5CW device authentication**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1605 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell,*

(Replaces S3-232524)

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

**S3-232525 Correction in N5CW device authentication**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1606 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233148**.

**S3-233148 Correction in N5CW device authentication**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1606 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232525)

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

**S3-232526 TNGF address handling correction**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1607 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: this clashes with SA2's agreements.

Qualcomm: backwards compatibility issues here. Nokia replied that this could be added in Rel-18 as an enhancements.

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

**S3-232527 TNGF address handling correction**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1608 Cat: A (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232528 Handling of SOR counter and the UE parameter update counter if stored in NVM**

*Type: LS out For: Approval  
 to CT1, cc CT4  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233152**.

**S3-233152 Handling of SOR counter and the UE parameter update counter if stored in NVM**

*Type: LS out For: Approval  
 to CT1, cc CT4  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232528)

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

**S3-232529 ME Change issue correction**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1609 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Qualcomm disagreed with the CR, backwards compatibility among other issues.They didn’t agree with the LS.

Huawei agreed with Qualcomm.

Ericsson: in CT1 Apple submitted a CR that wasn't agreed but it could be handled there with a few changes that we could tell them.

Thales didn’t agree with this CR, especially with the ACK generation.

IDEMIA: When USIM is removed the ME has some mandatory taks to perform. The Chair suggested to send an LS back to CT1 referring to what happens when USIM is removed.

Qualcomm: we don’t specify what the ME does when the USIM is removed.

IDEMIA: no required changes in SA3 specifications.

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

**S3-232548 Discussion on issue with UPU MAC calculation**

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

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

**S3-232549 Clarification to the UPU procedures**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1488 rev 2 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-230804)

**Decision:** The document was **revised to S3-233329**.

**S3-233329 Clarification to the UPU procedures**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1488 rev 3 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated,Nokia*

(Replaces S3-232549)

**Discussion:**

Agreed to start from Rel-15 and merge Nokia CRs here (e.g. 521).

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

**S3-232550 Clarification to the UPU procedures**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1611 Cat: A (Rel-18)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233388**.

**S3-233388 Clarification to the UPU procedures**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1611 rev 1 Cat: A (Rel-18)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-232550)

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

**S3-233389 Clarification to the UPU procedures**

*Type: CR For: Agreement  
 33.501 v15.16.0 CR-1668 Cat: F (Rel-15)  
  
 Source: Qualcomm Incorporated*

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

**S3-233390 Clarification to the UPU procedures**

*Type: CR For: Agreement  
 33.501 v16.14.0 CR-1669 Cat: A (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**S3-232551 Protection of UPU header**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1612 Cat: F (Rel-18)  
  
 Source: Qualcomm Incorporated*

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

**S3-232562 Thoughts on changing the salt in AES-GCM and AES-GMAC in IMS**

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

**Discussion:**

Apple couldn’t agree on this.They suggested to continue discussing.

Tdoc 3059 from Ericsson is related to this topic.

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

**S3-232564 IAB inter-CU topology adaptation and backhaul RLF recovery procedures**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1613 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

**S3-232604 CAPF 33.122 Vendor specific Security Methods**

*Type: CR For: (not specified)  
 33.122 v17.1.0 CR-0034 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Intel, Samsung*

**Discussion:**

Ericsson: we don’t agree with this CR.

MCC commented that mandating security methods outside 3GPP's scope was not appropriate. Ericsson had a similar concern. This was taken offline.

**Decision:** The document was **revised to S3-233350**.

**S3-233350 CAPF 33.122 Vendor specific Security Methods**

*Type: CR For: -  
 33.122 v17.1.0 CR-0034 rev 1 Cat: F (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell, Intel, Samsung*

(Replaces S3-232604)

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

**S3-232662 Address EN on S-NSSAI mapping**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1616 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-232663 Address EN on AF Authorization**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1617 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Discussed together with 3019 from Huawei and 979 from Xiaomi.

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

**S3-232664 NSSAA procedures for multiple registration**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1618 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Discussed with 3098 from Nokia.

Ericsson: we have seen this issue brought here several times before and we still don’t agree on it.

Huawei: Nokia is addressing the same issue in tdoc 3098, so we don’t understand why Ericsson can live that contribution and not this one.

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

**S3-232797 Protection of RRC Resume Request message**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Huawei, HiSilicon*

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

**S3-232798 SN authentication for R17 NSWO**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1626 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Nokia: we don’t agree with the solution part.

Qualcomm: not sure that this is needed.

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

**S3-232799 CR on N5CW registration key generation**

*Type: CR For: Agreement  
 33.501 v16.14.0 CR-1627 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-232800 Security of CPAC**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1628 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233353**.

**S3-233353 Security of CPAC**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1628 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232800)

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

**S3-232801 Security of CPAC**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1629 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233354**.

**S3-233354 Security of CPAC**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1629 rev 1 Cat: A (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232801)

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

**S3-232802 Fix the restricted discovery procedures in LTE ProSe R17**

*Type: CR For: Agreement  
 33.303 v17.1.0 CR-0139 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233232**.

**S3-233232 Fix the restricted discovery procedures in LTE ProSe R17**

*Type: CR For: Agreement  
 33.303 v17.1.0 CR-0139 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232802)

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

**S3-232804 Add service area in TS33.501**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1630 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Ericsson: this is not FASMO.We don’t agree with the change.

Nokia supported the CR.

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

**S3-232808 Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC**

*Type: CR For: Agreement  
 33.203 v17.1.0 CR-0270 rev 1 Cat: F (Rel-17)  
  
 Source: Telekom Deutschland GmbH*

(Replaces S3-232307)

**Abstract:**

Add SAH2 algorithms algorithms 128 and 512\_256 according to RFC 6234.

**Discussion:**

Huawei: we can agree with including in a new WID on crypto maintenance.

Ericsson had some issues but wanted to have some offline work.

Qualcomm: increase of complexity in here.

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

**S3-232812 SERP-CR on security protection on RRCResumeRequest message**

*Type: CR For: Approval  
 33.501 v18.1.0 CR-1631 Cat: C (Rel-18)  
  
 Source: Apple*

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

**S3-232814 CR on TS 33.501 on IRAT security**

*Type: CR For: Approval  
 33.501 v18.1.0 CR-1632 Cat: F (Rel-18)  
  
 Source: Apple*

**Discussion:**

The SA3 Chair asked why only Rel-18 was being changed if this was a problem in 5G earlier implementations. Apple was open to inlude more releases.

Ericsson: we need more time to study it.

Qualcomm: this is not really an issue and we don’t agree with the solution. Qualcomm commented that they hadn't seen this issue internally.

Huawei: we need more time to study the scenario.

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

**S3-232815 CR on 33501\_s1n1\_idlemode\_mapped\_ctxt**

*Type: CR For: Approval  
 33.501 v18.1.0 CR-1633 Cat: F (Rel-18)  
  
 Source: Apple*

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

**S3-232851 Authentication result removal**

*Type: CR For: Approval  
 33.501 v17.9.0 CR-1636 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

KPN: more details are needed here, but it’s a start.

Ericsson agreed with KPN.

Nokia: we didn’t have a solution for the key issue in the TR in Rel-16.

Huawei: this is a problem happening in CT4 in the field. We actually sent them an LS about this.

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

**S3-232852 Authorization of NF service consumers for data access via DCCF**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1637 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233154**.

**S3-233154 Authorization of NF service consumers for data access via DCCF**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1637 rev 1 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232852)

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

**S3-232862 Transport security for DNS**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1638 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

Nokia: we need more time to review this.The DNS topic should be treated in the EDGE clause as well.

Qualcomm: I don’t agree with this CR. This annex was not meant for EDGE, it was meant for LTE and it must remain informative. The EDGE case is to be treated separately.

Samsung supported the CR.

GSMA: this is more than cat-F, it should be cat-B or C. MCC had the same comment,

Huawei: we prefer to have these changes separately, don’t touch the annex. We need more time for this.

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

**S3-232871 Authorization of NF service consumers for data access via DCCF**

*Type: CR For: (not specified)  
 33.501 v18.1.0 CR-1639 Cat: A (Rel-18)  
  
 Source: Nokia Poland*

**Decision:** The document was **revised to S3-233155**.

**S3-233155 Authorization of NF service consumers for data access via DCCF**

*Type: CR For: -  
 33.501 v18.1.0 CR-1639 rev 1 Cat: A (Rel-18)  
  
 Source: Nokia Poland*

(Replaces S3-232871)

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

**S3-232885 Verification of the serving network name by the AUSF**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1640 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

Nokia didn’t agree with this CR.Huawei didn’t agree either,

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

**S3-232886 Verification of the serving network name by the AUSF**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1641 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-232887 Correction of the authorization of NF Service Consumers for data access via DCCF**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1642 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-232888 Correction of the authorization of NF Service Consumers for data access via DCCF**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1643 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-232889 Correction of procedures for N3GPP trusted access**

*Type: CR For: Agreement  
 33.501 v16.14.0 CR-1644 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233149**.

**S3-233149 Correction of procedures for N3GPP trusted access**

*Type: CR For: Agreement  
 33.501 v16.14.0 CR-1644 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-232889)

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

**S3-232890 Correction of procedures for N3GPP trusted access**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1645 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233150**.

**S3-233150 Correction of procedures for N3GPP trusted access**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1645 rev 1 Cat: A (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-232890)

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

**S3-232891 Correction of procedures for N3GPP trusted access**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1646 Cat: A (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233151**.

**S3-233151 Correction of procedures for N3GPP trusted access**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1646 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-232891)

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

**S3-232892 Correction of procedures for N5CW**

*Type: CR For: Agreement  
 33.501 v16.14.0 CR-1647 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-232893 Correction of procedures for N5CW**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1648 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-232894 Correction of procedures for N5CW**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1649 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-232979 R17 Update Subscription and unsubscription procedure of NSACF notification service**

*Type: CR For: Approval  
 33.501 v17.9.0 CR-1652 Cat: F (Rel-17)  
  
 Source: Xiaomi*

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

**S3-232980 R18 Update Subscription and unsubscription procedure of NSACF notification service (mirror)**

*Type: CR For: Approval  
 33.501 v18.1.0 CR-1653 Cat: A (Rel-18)  
  
 Source: Xiaomi*

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

**S3-233019 Rel17 Clarification on AF authorization for the NSACF notification procedure**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1654 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233376**.

**S3-233376 Rel17 Clarification on AF authorization for the NSACF notification procedure**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1654 rev 1 Cat: F (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-233019)

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

**S3-233020 Rel17 Alignment of NSACF notification procedure with existing procedures**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1655 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

Huawei found that there was a misalignment between SA2 and SA3 so they couldn’t agree on this CR. This was taken offline.

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

**S3-233021 Rel18 Clarification on AF authorization for the NSACF notification procedure**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1656 Cat: A (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233380**.

**S3-233380 Rel18 Clarification on AF authorization for the NSACF notification procedure**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1656 rev 1 Cat: A (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-233021)

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

**S3-233022 Rel18 Alignment of NSACF notification procedure with existing procedures**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1657 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-233023 Proposal for a living document for SERP: draftCR to TS 33.501 on the Protection of the RRC Resume Request message**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Ericsson*

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

**S3-233035 Discussion on Resumecause protection**

*Type: discussion For: Discussion  
 33.501 v..  
 Source: Samsung*

**Decision:** The document was **revised to S3-233132**.

**S3-233036 [draftCR] Protection of the RRC Resume Request message**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Samsung*

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

**S3-233037 Living document for SERP: draftCR to TS 33.501 on the Protection of the RRC Resume Request message**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Samsung*

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

**S3-233044 [IAB][Rel-17] IAB inter-CU topology adaptation procedure**

*Type: CR For: Approval  
 33.501 v17.9.0 CR-1658 Cat: F (Rel-17)  
  
 Source: Samsung, Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233131**.

**S3-233045 [IAB][Rel-18] IAB inter-CU topology adaptation procedure**

*Type: CR For: Approval  
 33.501 v18.1.0 CR-1659 Cat: B (Rel-18)  
  
 Source: Samsung, Huawei, HiSilicon*

**Discussion:**

Qualcomm considered that this wasn’t needed.

Samsung:

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

**S3-233059 Adding secure ESP algorithms**

*Type: draftCR For: Approval  
 33.203 v17.1.0  
 Source: Ericsson*

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

**S3-233060 Removing text and note forbidding ESP dummy packets**

*Type: CR For: Agreement  
 33.203 v17.1.0 CR-0271 Cat: F (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

Qualcomm: not comfortable removing this. The gain is less than the risk of removing this for current implementations.

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

**S3-233061 Updates of obsoleted RFCs**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1660 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-233062 Updates to the IKEv2 profile**

*Type: CR For: Agreement  
 33.210 v17.1.0 CR-0076 Cat: C (Rel-18)  
  
 Source: Ericsson*

**Discussion:**

Nokia: IDi and IDR used for authentication would be wrong anyway. We need to review this more closely.

Huawei: proposals are good but we need more time to check.

Qualcomm: consider the WID for Rel-19, it's a bit late for Rel-18 and I don’t understand the Idi and Idr statement.

Ericsson: this is stage 3, we have time. Qualcomm: no, it has stage 2 impact.

The Chair clarified that even if this was stage 3 CT groups would complain because they wouldn’t have the time to get additional work.

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

**S3-233063 Remove keyEncipherment and KeyAgreement from TLS certificate profile**

*Type: CR For: Agreement  
 33.310 v18.0.0 CR-0162 Cat: A (Rel-18)  
  
 Source: Ericsson*

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

**S3-233064 Remove keyEncipherment and KeyAgreement from TLS certificate profile**

*Type: CR For: Agreement  
 33.310 v16.13.0 CR-0163 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Discussion:**

Nokia: we need time to analyse this.

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

**S3-233065 Remove keyEncipherment and KeyAgreement from TLS certificate profile**

*Type: CR For: Agreement  
 33.310 v17.6.0 CR-0164 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-233078 Discussion paper on the purpose and requirements of Annex V TS 33.501**

*Type: discussion For: Endorsement  
 Source: Nanjing Ericsson Panda Com Ltd*

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

**S3-233080 Clarification of the intended usage and requirements for user consent framework Rel-17**

*Type: CR For: Agreement  
 33.501 v17.9.0 CR-1661 Cat: F (Rel-17)  
  
 Source: Ericsson*

**Discussion:**

Huawei, Nokia didn’t agree with this CR.Existent procedures are good enough.

GSMA: it needs rewording (user consent intended for internal use within the operators domain?).

Qualcomm: subscriber's base consent? What is this?

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

**S3-233081 Clarification of the intended usage and requirements for user consent framework Rel-18**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1662 Cat: F (Rel-18)  
  
 Source: Ericsson*

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

**S3-233094 Discussion on multiple registration in parallel**

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

**Discussion:**

Ericsson preferred solution in 095. Qualcomm didn’t support this solution.

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

**S3-233095 Add restriction on UE for multi registrations in two PLMNs**

*Type: CR For: Agreement  
 33.501 v16.14.0 CR-1663 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-233096 Add restriction on 5GC for multi registrations in two PLMNs**

*Type: CR For: Agreement  
 33.501 v16.14.0 CR-1664 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-233097 Discussin paper on control on NSSAA procedures for multi registrations in two PLMNs**

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

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

**S3-233098 control on NSSAA procedures for multi registrations in two PLMNs**

*Type: CR For: Agreement  
 33.501 v16.14.0 CR-1665 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson only agreed with the third change.

Qualcomm didn’t agree with the first change.

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

**S3-233099 LS to CT4 to clarify NSSAA procedure**

*Type: LS out For: Approval  
 to CT4, cc SA2, CT1  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-233113 AF accessing 5GC assistance information in AI/ML**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1666 Cat: F (Rel-18)  
  
 Source: OPPO*

**Discussion:**

Qualcomm: not convinced that we need this CR.

OPPO commented that the conclusions of the TR needed to be captured somehow.

MCC commented that it was dangerous to bring CRs based on conclusions in TRs. The current cover page didn’t read like a correction was made. It seemed more like a cat-B CR where a new procedure was being described. Even if it is brought as an informative annex it could be considered as cat-B, so a better wording was needed in the cover page for the justifcation and consequences if not approved.

Qualcomm: we don’t have a conclusion for user consent yet. We don’t agree with this CR, it should be in the TR and not in the TS.

Apple: TRs cannot be referred to, that's why we want to include it in the TS.

Ericsson: not happy with ZZ.3. Without this clause there isn't real content so the annex would not be needed.

OPPO: SA2 would be puzzled if we don’t conclude on this.

It was commented that SA2 didn’t need to refer to the TR.

AT&T: interested parties can check the TR, this is for information.

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

**S3-233131 [IAB][Rel-17] IAB inter-CU topology adaptation procedure**

*Type: CR For: Approval  
 33.501 v17.9.0 CR-1658 rev 1 Cat: F (Rel-17)  
  
 Source: Samsung, Huawei, HiSilicon*

(Replaces S3-233044)

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

**S3-233132 Discussion on Resumecause protection**

*Type: discussion For: Discussion  
 33.501 v..  
 Source: Samsung*

(Replaces S3-233035)

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

**S3-233141 SERP status summary**

*Type: discussion For: discussion  
 Source: Apple*

**Discussion:**

Qualcomm: consider the option of not doing anything. No security benefit for all this complexity. We will object to any CR for any of these options.

Ericsson: OK with option 1.

Samsung: OK with option 2.

Nokia: option 2.

DT: option 1.

Huawei was OK with both options.

Google: option 2.

Intel: option 2.

Qualcomm: if option 1 protects against the downgrade we could discuss it.

The Chair commented that option 2 was a superset of option so this needed to be taken into account.

Show of hands:

Option 1: Ericsson, Verizon, China Telecom,Huawei,Vivo, Apple, OPPO, Xiaomi,DT,Nokia, Cable Labs, Google, Interdigital.

Option 2: Intel, Samsung, Huawei.

Option 1 was the preferred option, but the Chair commented that it should be a single implementable CR and not three different solutions as it we had now.

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

**S3-233145 LS on clarifitcation to the UPU header handling**

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

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

### 4.10 ProSe Secondary Authentication

**S3-232488 Living document to TS 33.503 for Prose Secondary Authentication**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: InterDigital, Inc.*

**Decision:** The document was **revised to S3-233198**.

**S3-233198 Living document to TS 33.503 for Prose Secondary Authentication**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: InterDigital, Inc.*

(Replaces S3-232488)

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

**S3-232490 Naming alignment for 5GPRUK and deleting redundant EN**

*Type: other For: Approval  
 33.503 v..  
 Source: InterDigital, Inc.*

**Discussion:**

Ericsson wanted to keep the editor's note and wait for the reply form SA2.

Interdigital: we didn’t ask SA2 anything about revokation, what are we waiting for? It was agreed to keep the editor's note.

**Decision:** The document was **revised to S3-233184**.

**S3-233184 Naming alignment for 5GPRUK and deleting redundant EN**

*Type: other For: Approval  
 33.503 v..  
 Source: InterDigital, Inc.*

(Replaces S3-232490)

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

**S3-232732 Addressing Editor's Note on remote multiple Remote User ID**

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

**Discussion:**

Ericsson: we asked SA2, let’s wait for the reply.

Interdigital: it still is a draft CR, let’s go ahead and adjust later.

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

**S3-232733 pCR on addressing the issue of refaining from sending data by the remote UE**

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

**Discussion:**

Interdigital: we are fine in general with this contribution.

Ericsson had some issues with this and it was kept open.

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

**S3-232734 pCR on Addressing Editor's Note on remote UE's subscription update notification**

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

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

**S3-232754 Discussion paper on refraining from sending data at remote UE**

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

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

**S3-232755 pCR on refraining issue**

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

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

**S3-233442 Exception sheet Prosesa**

*Type: WI exception request For: Approval  
 Source: Interdigital*

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

### 4.11 New WID on DTLS protocol profile for AKMA and GBA

**S3-232624 Living document for GBA DTLS to TS 33.220**

*Type: draftCR For: Approval  
 33.220 v17.4.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-233270**.

**S3-233270 Living document for GBA DTLS to TS 33.220**

*Type: draftCR For: Approval  
 33.220 v17.4.0  
 Source: ZTE Corporation*

(Replaces S3-232624)

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

**S3-233307 Living document for GBA DTLS to TS 33.220**

*Type: CR For: Agreement  
 33.220 v17.4.0 CR-0220 Cat: B (Rel-18)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-233379**.

**S3-233379 Add a new Annex about GBA Ua protocol based on DTLS to TS 33.220**

*Type: CR For: Agreement  
 33.220 v17.4.0 CR-0220 rev 1 Cat: B (Rel-18)  
  
 Source: ZTE Corporation*

(Replaces S3-233307)

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

**S3-232625 Living document for AKMA DTLS to TS 33.535**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-233271**.

**S3-233271 Living document for AKMA DTLS to TS 33.535**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: ZTE Corporation*

(Replaces S3-232625)

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

**S3-232996 Enable DTLS in Ua star protocol**

*Type: other For: Approval  
 Source: Xiaomi communications*

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

### 4.12 New WID on Security Aspects of the 5G Service Based Architecture Phase 2

**S3-232895 Clarification on access token requests for NF Producers of a specific NF type and token-based authorization for indirect communication with delegated discovery**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1650 Cat: B (Rel-18)  
  
 Source: Ericsson*

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

**S3-233215 Clarification on access token requests for NF Producers of a specific NF type and token-based authorization for indirect communication with delegated discovery**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1650 rev 1 Cat: B (Rel-18)  
  
 Source: Ericsson*

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

**S3-232947 Validation of the parameters sent by OAuth 2.0 client (NF Service Consumer) in the access token request.**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1651 Cat: C (Rel-18)  
  
 Source: Ericsson*

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

### 4.13 New WID on IETF OSCORE protocol profiles for GBA and AKMA

**S3-233001 Resolve EN for choosing GBA\_U GBA\_ME**

*Type: other For: Approval  
 Source: Xiaomi communications*

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

**S3-233012 Living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.220, IETF OSCORE as GBA Ua protocol**

*Type: draftCR For: Approval  
 33.220 v17.4.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233423**.

**S3-233423 Living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.220, IETF OSCORE as GBA Ua protocol**

*Type: draftCR For: Approval  
 33.220 v17.4.0  
 Source: Ericsson*

(Replaces S3-233012)

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

**S3-233013 pCR to GBA OSCORE living doc: Clarifications**

*Type: other For: Approval  
 33.220 v..  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233375**.

**S3-233375 pCR to GBA OSCORE living doc: Clarifications**

*Type: other For: Approval  
 33.220 v..  
 Source: Ericsson*

(Replaces S3-233013)

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

**S3-233014 Proposal for a living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.535, IETF OSCORE as AKMA Ua\* protocol**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: Ericsson*

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

**S3-233432 Exception sheet AKMA\_GBA\_OSCORE**

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

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

### 4.14 New WID on Security aspect of home network triggered primary authentication

**S3-232491 HNTRA procedure for SoR case**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232492 HNTRA procedure for UPU case**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232493 HNTRA procedure alignment**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233287**.

**S3-233287 HNTRA procedure alignment**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232493)

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

**S3-232559 Updating the SoR/UPU counter text in HONTRA draft CR**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233224**.

**S3-233224 Updating the SoR/UPU counter text in HONTRA draft CR**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

(Replaces S3-232559)

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

**S3-232560 Resolving the AKMA EN in the HONTRA draft CR**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233219**.

**S3-233219 Resolving the AKMA EN in the HONTRA draft CR**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

(Replaces S3-232560)

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

**S3-232626 Delete the SOR and UPU counter wrap around**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232627 Draft CR to TS 33.535-AAnF function**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232628 Draft CR to TS 33.535-AF function**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232629 Draft CR to TS 33.535-Kaf rekeying**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232630 Draft CR to TS 33.535-Kakma rekeying**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232631 Draft CR to TS 33.535-UDM function**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232632 EN removal for optional supporting of HONTRA in 5GC**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-233216**.

**S3-233216 EN removal for optional supporting of HONTRA in 5GC**

*Type: other For: Approval  
 Source: ZTE Corporation*

(Replaces S3-232632)

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

**S3-232633 EN removal for new UDM service**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232634 EN removal for pending authentication**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232635 EN removal for selection of AMF**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232636 EN removal for sending authentication requests to 2 AMFs**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232637 EN removal for the response message parameters and the semantics of the different cases**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232638 update the figure of HNA**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232743 New service for UDM**

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

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

**S3-232744 Living document for HONTRA CR to TS33.535**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233221**.

**S3-233221 Living document for HONTRA CR to TS33.535**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232744)

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

**S3-233441 KAKMA re-keying relaed to HONTRA**

*Type: CR For: Agreement  
 33.535 v17.8.0 CR-0155 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232745 updating SoR/UPU clauses**

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

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

**S3-232746 Living document of HONTRA to TS 33.501**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233222**.

**S3-233222 Living document of HONTRA to TS 33.501**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232746)

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

**S3-233440 Introducing Home Trigger primary authentication procedure**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1670 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

**S3-232751 updating interworking usecase**

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

**Decision:** The document was **revised to S3-233223**.

**S3-233223 updating interworking usecase**

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

(Replaces S3-232751)

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

**S3-232752 cleanup HONTRA**

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

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

**S3-232753 deleting EN for AKMA**

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

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

**S3-232811 EN removal for optional support of HONTRA**

*Type: other For: Approval  
 33.501 v..  
 Source: LG Electronics*

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

**S3-232974 Remove the EN related to the selection of AMF**

*Type: other For: Approval  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232975 New UDM service operation**

*Type: other For: Approval  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-233016 HONTRA clarifications**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233217**.

**S3-233217 HONTRA clarifications**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

(Replaces S3-233016)

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

**S3-233033 [draftCR] Adding a new security sevice operation provided by the UDM**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-233218**.

**S3-233218 [draftCR] Adding a new security sevice operation provided by the UDM**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Samsung*

(Replaces S3-233033)

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

**S3-233034 [draft CR] Resolving EN on multiple AMF issue in HNTRA**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Samsung*

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

**S3-233125 HONTRA Clarifications**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Lenovo*

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

### 4.15 New WID on 5G Security Assurance Specification (SCAS) for the Policy Control Function (PCF)

**S3-232414 Scope definition for draft TS 33.528**

*Type: pCR For: Approval  
 33.528 v0.1.0  
 Source: BSI (DE)*

**Abstract:**

pCR to include Scope content into the TS 33.528

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

**S3-232415 Introduction for draft TS 33.528 chapter 4**

*Type: pCR For: Approval  
 33.528 v0.1.0  
 Source: BSI (DE)*

**Abstract:**

pCR to add introductional content to TS 33.528

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

**S3-232416 PCF-specific security requirements and related test cases for draft TS 33.528**

*Type: pCR For: Approval  
 33.528 v0.1.0  
 Source: BSI (DE)*

**Abstract:**

pCR to add first test case content to clause 4 "security requirements"

**Decision:** The document was **revised to S3-233170**.

**S3-233170 PCF-specific security requirements and related test cases for draft TS 33.528**

*Type: pCR For: Approval  
 33.528 v0.1.0  
 Source: BSI (DE)*

(Replaces S3-232416)

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

**S3-232437 Robustness interfaces and protocols defined for PCF**

*Type: other For: Approval  
 33.528 v..  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **revised to S3-233424**.

**S3-233424 Robustness interfaces and protocols defined for PCF**

*Type: other For: Approval  
 33.528 v..  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-232437)

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

**S3-233209 Draft TS 33.528**

*Type: draft TS For: Approval  
 33.528 v0.2.0  
 Source: BSI*

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

### 4.16 New WID on Security aspects for 5WWC Phase 2

**S3-232499 TNGF and N3IWF redirection information KI3 solution**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1601 Cat: B (Rel-18)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232603 CR to TS 33.501, 5WWC, Authentication of AUN3 devices behind RG**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1614 Cat: B (Rel-18)  
  
 Source: CableLabs, Charter Communications, Rogers Communications*

**Decision:** The document was **revised to S3-233290**.

**S3-233290 CR to TS 33.501, 5WWC, Authentication of AUN3 devices behind RG**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1614 rev 1 Cat: B (Rel-18)  
  
 Source: CableLabs, Charter Communications, Rogers Communications*

(Replaces S3-232603)

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

**S3-232739 CR on N3IWF and TNGF relocation**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1622 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233272**.

**S3-233272 CR on N3IWF and TNGF relocation**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1622 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232739)

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

**S3-232740 CR on AUN3 device registration**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1623 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon*

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

### 4.17 Proposed WID for UAS Phase 2 security

**S3-232552 Living document for UAS draft CR**

*Type: draftCR For: Approval  
 33.536 v17.1.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233425**.

**S3-233425 Living document for UAS draft CR**

*Type: draftCR For: Approval  
 33.536 v17.1.0  
 Source: Qualcomm Incorporated*

(Replaces S3-232552)

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

**S3-232553 Proposed text for A2X security parts of UAS living document**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233282**.

**S3-233282 Proposed text for A2X security parts of UAS living document**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

(Replaces S3-232553)

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

**S3-232554 Proposed text for the Broadcast Remote ID part of UAS living document**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

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

**S3-232555 Proposed text for the Direct Detect and Avoid part of UAS living document**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233286**.

**S3-233286 Proposed text for the Direct Detect and Avoid part of UAS living document**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

(Replaces S3-232555)

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

**S3-232556 Proposed text for the Direct C2 Communication part of UAS living document**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233289**.

**S3-233289 Proposed text for the Direct C2 Communication part of UAS living document**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

(Replaces S3-232556)

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

**S3-232590 Security for Direct C2**

*Type: draftCR For: Approval  
 33.256 v17.2.0  
 Source: InterDigital, Inc.*

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

**S3-232591 Privacy for Direct C2**

*Type: draftCR For: Approval  
 33.256 v17.2.0  
 Source: InterDigital, Inc.*

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

**S3-232660 Direct C2 security for unicast**

*Type: other For: Agreement  
 33.256 v..  
 Source: Huawei, HiSilicon*

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

**S3-232717 Security and privacy for DAA unicast security**

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

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

**S3-232718 Security and privacy for DAA traffic broadcast communication**

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

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

**S3-232719 Security and privacy for Remote ID Broadcast communication**

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

**Decision:** The document was **revised to S3-233285**.

**S3-233285 Security and privacy for Remote ID Broadcast communication**

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

(Replaces S3-232719)

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

**S3-232924 Removal of AMF UUAA result indication\_LS**

*Type: other For: Approval  
 33.256 v..  
 Source: China Mobile*

**Discussion:**

Lenovo: postpone.

Ericsson suported the contribution. No need to add existent text from the SA2 specifications.There is a need to make the correction in Rel-17.

Huawei: we don’t agree with this CR.

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

**S3-232925 Enhance the overview with R18 contents-4**

*Type: other For: Approval  
 33.256 v..  
 Source: China Mobile*

**Discussion:**

MCC commented that this looked like an additional scope clause and not an overview. It was commented that the intention was to give a more detailed scope.

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

**S3-232926 Add the background on A2X Direct Communication-5.x.1**

*Type: other For: Approval  
 33.256 v..  
 Source: China Mobile*

**Decision:** The document was **revised to S3-233284**.

**S3-233284 Add the background on A2X Direct Communication-5.x.1**

*Type: other For: Approval  
 33.256 v..  
 Source: China Mobile*

(Replaces S3-232926)

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

**S3-232927 Add the background on A2X Direct C2 Communication-5.y.1**

*Type: other For: Approval  
 33.256 v..  
 Source: China Mobile*

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

**S3-233114 Updates to A2X Direct Communication Security for DAA Service**

*Type: draftCR For: Approval  
 33.256 v17.2.0  
 Source: Lenovo*

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

**S3-233116 Updates to A2X Direct C2 Communication Security**

*Type: draftCR For: Approval  
 33.256 v17.2.0  
 Source: Lenovo*

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

**S3-233445 Exception sheet UAS\_Ph2**

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

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

### 4.18 New WID on Automated certicate management in SBA

**S3-232423 Living document for ACM\_SBA (Automated Certificate Management in SBA)**

*Type: draftCR For: (not specified)  
 33.310 v18.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233269**.

**S3-233269 Living document for ACM\_SBA (Automated Certificate Management in SBA)**

*Type: draftCR For: -  
 33.310 v18.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232423)

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

**S3-232516 pCR to ACM\_SBA living doc\_Validation of usage of X.509 certificate**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233192**.

**S3-233192 pCR to ACM\_SBA living doc\_Validation of usage of X.509 certificate**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232516)

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

**S3-232517 pCR to ACM\_SBA living doc\_Set up of initial trust**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233191**.

**S3-233191 pCR to ACM\_SBA living doc\_Set up of initial trust**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232517)

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

**S3-232518 pCR to ACM\_SBA living doc\_Certificate enrolment and renewal for 5GC NFs**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei pointed out that clause x.2.2 was identical to existing content, it could be considered redundant.

Ericsson: add a paragraph about CMPv3. It was commented that input on CMPv3 would be added once IETF was done with it.

MCC: note 1a contains normative statements, notes can only be informative.

**Decision:** The document was **revised to S3-233190**.

**S3-233190 pCR to ACM\_SBA living doc\_Certificate enrolment and renewal for 5GC NFs**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232518)

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

**S3-232825 Discussion paper on CMPv3 and lightweight profile**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-233082 Update to living document - Initial Trust**

*Type: pCR For: Approval  
 33.876 v0.7.0  
 Source: Ericsson*

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

**S3-233233 Exception sheet for ACM\_SBA**

*Type: WI exception request For: Agreement  
 Source: Nokia*

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

### 4.19 New WID on security enhancements for NGRTC

**S3-232847 living CR for RTC**

*Type: draftCR For: Approval  
 33.328 v17.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233298**.

**S3-233298 living CR for RTC**

*Type: draftCR For: Approval  
 33.328 v17.1.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232847)

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

**S3-232848 Security aspects of SBA in IMS media control interface**

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

**Decision:** The document was **revised to S3-233299**.

**S3-233299 Security aspects of SBA in IMS media control interface**

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

(Replaces S3-232848)

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

**S3-232849 Security aspects ofDC usage in IMS**

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

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

**S3-233017 Annex N additions for IMS data channels**

*Type: other For: Approval  
 33.328 v..  
 Source: Ericsson*

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

**S3-233018 IMS Data channel security updates**

*Type: other For: Approval  
 33.328 v..  
 Source: Ericsson*

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

**S3-233435 exception sheet NG\_RTC\_SEC**

*Type: WI exception request For: Agreement  
 Source: Huawei*

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

### 4.20 New WID on Security Aspects of Enhancement of Support for Edge Computing in 5GC — phase 2

**S3-232785 Authentication and Authorization between AC and EEC**

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

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

**S3-232786 Authentication and Authorization between V-ECS and H-ECS**

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

**Decision:** The document was **revised to S3-233171**.

**S3-233171 Authentication and Authorization between V-ECS and H-ECS**

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

(Replaces S3-232786)

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

**S3-232787 Security for EAS discovery procedure via V-EASDF**

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

**Decision:** The document was **revised to S3-233172**.

**S3-233172 Security for EAS discovery procedure via V-EASDF**

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

(Replaces S3-232787)

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

**S3-232788 Transport security for the EDGE10 interface**

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

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

**S3-232836 Clarification on GPSI verification**

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

**Decision:** The document was **revised to S3-233174**.

**S3-233174 Clarification on GPSI verification**

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

(Replaces S3-232836)

**Discussion:**

The contents of 860 were merged into this document,

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

**S3-232839 Clarification on Server side certificate-based TLS authentication**

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

**Discussion:**

Nokia: certificate-based TLS shall be supported and then the details are out of scope?

Apple: we didn’t agree on these authentication methods, it could be left for implementation.

Samsung: we have a proposal to add an informative annex about this in tdoc 3053.

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

**S3-232841 Living CR of EDGE\_Ph2 on TS 33.558**

*Type: draftCR For: Approval  
 33.558 v17.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233371**.

**S3-233371 Living CR of EDGE\_Ph2 on TS 33.558**

*Type: draftCR For: Approval  
 33.558 v17.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232841)

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

**S3-232842 Living CR of EDGE\_Ph2 on TS\_33.501**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233372**.

**S3-233372 Living CR of EDGE\_Ph2 on TS\_33.501**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232842)

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

**S3-232853 Addressing security of Edge Node Sharing**

*Type: CR For: Agreement  
 33.558 v17.3.0 CR-0011 Cat: B (Rel-18)  
  
 Source: Ericsson*

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

**S3-232856 Token-based EES authorization**

*Type: CR For: Agreement  
 33.558 v17.3.0 CR-0012 Cat: B (Rel-18)  
  
 Source: Ericsson*

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

**S3-232859 EEC authentication and authentication method negotiation**

*Type: CR For: Agreement  
 33.558 v17.3.0 CR-0013 Cat: B (Rel-18)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233173**.

**S3-233173 EEC authentication and authentication method negotiation**

*Type: CR For: Agreement  
 33.558 v17.3.0 CR-0013 rev 1 Cat: B (Rel-18)  
  
 Source: Ericsson*

(Replaces S3-232859)

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

**S3-232860 GPSI verification**

*Type: CR For: Agreement  
 33.558 v17.3.0 CR-0014 Cat: B (Rel-18)  
  
 Source: Ericsson*

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

**S3-232997 Update for authentication and authorization between V-ECS and H-ECS**

*Type: other For: Approval  
 Source: Xiaomi communications*

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

**S3-233048 [draft CR] ECS/EES side certificate-based authentication**

*Type: draftCR For: Approval  
 33.558 v17.3.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-233168**.

**S3-233168 [draft CR] ECS/EES side certificate-based authentication**

*Type: draftCR For: Approval  
 33.558 v17.3.0  
 Source: Samsung*

(Replaces S3-233048)

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

**S3-233053 [draftCR] Informative annex for details of authentication method**

*Type: draftCR For: Approval  
 33.558 v17.3.0  
 Source: Samsung*

**Discussion:**

Apple disagreed with the contribution as it had been agreed to leave this out of scope.

Qualcomm: this info is already avalabile in other specs.

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

**S3-233434 Exception sheet EDGE\_Ph2**

*Type: WI exception request For: Agreement  
 Source: Huawei*

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

### 4.21 New WID on AKMA phase 2

**S3-232639 Add AKMA roaming requirements and network model**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232640 Add content for Use of AP**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232741 Update architecture to support roaming**

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

**Decision:** The document was **revised to S3-233278**.

**S3-233278 AKMA roaming requirements**

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

(Replaces S3-232741)

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

**S3-232742 Adding Roaming requirement**

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

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

**S3-232932 AKMA roaming requirements**

*Type: draftCR For: Approval  
 33.535 v17.8.0  
 Source: China Mobile*

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

**S3-232933 AKMA AP**

*Type: other For: Approval  
 33.535 v..  
 Source: China Mobile*

**Decision:** The document was **revised to S3-233281**.

**S3-233281 AKMA AP**

*Type: other For: Approval  
 33.535 v..  
 Source: China Mobile*

(Replaces S3-232933)

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

**S3-232934 Living document for AKMA ph2 WID**

*Type: other For: Approval  
 33.535 v..  
 Source: China Mobile*

**Decision:** The document was **revised to S3-233383**.

**S3-233383 Living document for AKMA ph2 WID**

*Type: other For: Approval  
 33.535 v..  
 Source: China Mobile*

(Replaces S3-232934)

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

**S3-233405 AKMA ph2 security enhancement**

*Type: CR For: Agreement  
 33.535 v17.8.0 CR-0154 Cat: B (Rel-18)  
  
 Source: China Mobile*

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

**S3-232995 Update for authentication proxy in AKMA scenarios**

*Type: other For: Approval  
 Source: Xiaomi communications*

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

### 4.22 New WID on security aspects of MSGin5G Ph2

### 4.23 New WID on security aspects of enablers for Network Automation for 5G - phase 3

Show of hands:

Extend the claim of the access token issued by NRF and the token request message with analytic ID during roaming?

Support:: Huawei, ZTE,China Mobile,China Telecom, Interdigital, Philips.

Don’t support:: Ericsson

**S3-232511 Authorization of selection of participant NWDAF instances in the Federated Learning group**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: China Telecommunications*

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

**S3-232535 pCR on Living draft CR WID eNA\_Ph3\_AIML model sharing**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232536 pCR on Living draft CR WID eNA\_Ph3\_FL\_Authorization**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: refer to TS 23.888 instead of quoting.

**Decision:** The document was **revised to S3-233267**.

**S3-233267 pCR on Living draft CR WID eNA\_Ph3\_FL\_Authorization**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232536)

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

**S3-232670 Authorization of selection of participant NWDAF instances in the Federated Learning group.**

*Type: draftCR For: (not specified)  
 33.501 v18.1.0  
 Source: Intel Belgium SA/NV*

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

**S3-232698 Authorization of selection of participant NWDAF instances in the Federated Learning group**

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

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

**S3-232708 Authorization for analytics exchange in roaming case**

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

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

**S3-232709 Authorization for data exchange in roaming case**

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

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

**S3-232896 Authorization of selection of participant NWDAF instances in the Federated Learning group**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

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

**S3-232897 Security for AI/ML model storage and sharing**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233268**.

**S3-233268 Security for AI/ML model storage and sharing**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

(Replaces S3-232897)

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

**S3-232939 living CR for eNA**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-233266**.

**S3-233266 living CR for eNA**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: China Mobile*

(Replaces S3-232939)

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

**S3-232940 General description of protection of data and analytics exchange in roaming case**

*Type: other For: Approval  
 33.501 v..  
 Source: China Mobile*

**Decision:** The document was **revised to S3-233386**.

**S3-233386 General description of protection of data and analytics exchange in roaming case**

*Type: other For: Approval  
 33.501 v..  
 Source: China Mobile*

(Replaces S3-232940)

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

**S3-232941 protection of analytics exchange in roaming case**

*Type: other For: Approval  
 33.501 v..  
 Source: China Mobile*

**Discussion:**

Ericsson: this is copying existing text in SA2 specs. They didn’t see the value of this contribution and 708.

**Decision:** The document was **revised to S3-233387**.

**S3-233387 protection of analytics exchange in roaming case**

*Type: other For: Approval  
 33.501 v..  
 Source: China Mobile*

(Replaces S3-232941)

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

**S3-233429 Exception sheet eNA\_Ph3\_SEC**

*Type: WI exception request For: Agreement  
 Source: China Mobile*

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

### 4.24 New WID on Security aspects of enhanced support of Non-Public Networks phase 2

**S3-232418 Living document for eNPN\_Ph2 (Security aspects of enhanced support of Non-Public Networks phase 2)**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233248**.

**S3-233248 Living document for eNPN\_Ph2 (Security aspects of enhanced support of Non-Public Networks phase 2)**

*Type: draftCR For: Approval  
 33.501 v18.1.0  
 Source: Ericsson*

(Replaces S3-232418)

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

**S3-233444 Security aspects of enhanced support of Non-Public Networks phase 2**

*Type: CR For: Approval  
 33.501 v18.1.0 CR-1671 Cat: B (Rel-18)  
  
 Source: Ericsson*

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

**S3-232587 pCR: NSWO support in SNPN using CH with AAA server**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233243**.

**S3-233243 pCR: NSWO support in SNPN using CH with AAA server**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

(Replaces S3-232587)

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

**S3-232621 Using credential holder for primary authentication in Untrusted N3GPP access**

*Type: other For: Approval  
 Source: CableLabs*

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

**S3-232622 Using credential holder for primary authentication in Trusted N3GPP access**

*Type: other For: Approval  
 Source: CableLabs*

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

**S3-232623 N5CW devices using credential holder for primary authentication**

*Type: other For: Approval  
 Source: CableLabs*

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

**S3-232830 Informative description of authentication for localised services**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233247**.

**S3-233247 Informative description of authentication for localised services**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232830)

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

**S3-232898 Update to living document - Untrusted non-3GPP access**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233240**.

**S3-233240 Update to living document - Untrusted non-3GPP access**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

(Replaces S3-232898)

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

**S3-232899 Update to living document - (Option 1) Trusted non-3GPP access**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

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

**S3-232900 Update to living document - (Option 2) Trusted non-3GPP access**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233242**.

**S3-233242 Update to living document - (Option 2) Trusted non-3GPP access**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

(Replaces S3-232900)

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

**S3-232901 Update to living document - Access to SNPN services for N5CW devices**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233246**.

**S3-233246 Update to living document - Access to SNPN services for N5CW devices**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

(Replaces S3-232901)

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

**S3-232902 Update to living document - NSWO access to SNPN**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233245**.

**S3-233245 Update to living document - NSWO access to SNPN**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

(Replaces S3-232902)

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

**S3-232903 Update to living document - Security aspects of access to localized services**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

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

**S3-232998 Add the security mechanism for N5CW devices in SNPN scenarios**

*Type: other For: Approval  
 Source: Xiaomi communications*

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

**S3-232999 Add the security mechanism for trusted non-3GPP access in SNPN scenarios**

*Type: other For: Approval  
 Source: Xiaomi communications*

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

**S3-233000 Add the security mechanism for untrusted non-3GPP access in SNPN scenarios**

*Type: other For: Approval  
 Source: Xiaomi communications*

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

**S3-233443 Exception sheet eNPN\_Ph2**

*Type: WI exception request For: Approval  
 Source: Ericsson*

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

### 4.25 New WID on Security Aspects of Proximity-based Services in 5GS Phase 2

**S3-232569 Adding security procedure for U2U relay discovery with model A in ProSe draft CR**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Discussion:**

CATT: objecton to note 2.

**Decision:** The document was **revised to S3-233177**.

**S3-233177 Adding security procedure for U2U relay discovery with model A in ProSe draft CR**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

(Replaces S3-232569)

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

**S3-232570 Adding security procedure for U2U relay discovery with model B in ProSe draft CR**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Discussion:**

Discussed together with 3066.

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

**S3-232592 Selection between security mechanisms with or without network assistance**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: InterDigital, Inc.*

**Discussion:**

Ericsson objected to the Reject message. They also found standalone discovery a very confusing term.

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

**S3-232605 Selection methods between security mechanisms with or without network assistance**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-233182**.

**S3-233182 Selection methods between security mechanisms with or without network assistance**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: China Telecommunications*

(Replaces S3-232605)

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

**S3-232611 Add General in U2U Relay communication**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: China Telecommunications*

**Discussion:**

Discussed with 976.

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

**S3-232612 Add Subclause in U2N Relay emergency**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: China Telecommunications*

**Discussion:**

Discussed with 642 and 682.

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

**S3-232614 Add General in U2U Relay Discovery**

*Type: draftCR For: (not specified)  
 33.503 v17.3.0  
 Source: China Telecommunications*

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

**S3-232641 Add some terms to 5G\_ProSe\_Ph2 living doc**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232642 Update clause 6.3.6 to 5G\_ProSe\_Ph2 living doc**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232643 Update clause 6.6.3 to 5G\_ProSe\_Ph2 living doc**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Discussion:**

Discussed with 681.

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

**S3-232644 Update clause 6.6.4 to 5G\_ProSe\_Ph2 living doc**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-232645 Update scope to 5G\_ProSe\_Ph2 living doc**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-233175**.

**S3-233175 Update scope to 5G\_ProSe\_Ph2 living doc**

*Type: other For: Approval  
 Source: ZTE Corporation*

(Replaces S3-232645)

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

**S3-232681 Security for U2U relay in 3GPP coverage**

*Type: other For: Approval  
 33.503 v..  
 Source: Ericsson*

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

**S3-232682 Emergency service via Layer 2 and Layer 3 UE-to-network relay**

*Type: other For: Approval  
 33.503 v..  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233179**.

**S3-233179 Emergency service via Layer 2 and Layer 3 UE-to-network relay**

*Type: other For: Approval  
 33.503 v..  
 Source: Ericsson*

(Replaces S3-232682)

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

**S3-232721 Security for UE-to-UE Relay discovery procedures**

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

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

**S3-232722 Security procedures for Layer-3 UE-to-UE Relay with network assistance**

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

**Discussion:**

Ericsson: this solution doesn’t work.

Xiaomi agreed with Ericsson.

Interdigital supported this contribution as opposed to Ericsson's proposal in 681.

**Decision:** The document was **revised to S3-233373**.

**S3-233373 Security procedures for Layer-3 UE-to-UE Relay with network assistance**

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

(Replaces S3-232722)

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

**S3-232723 Security procedures for Layer-3 UE-to-UE Relay without network assistance**

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

**Discussion:**

Interdigital: object to second sentence.

**Decision:** The document was **revised to S3-233181**.

**S3-233181 Security procedures for Layer-3 UE-to-UE Relay without network assistance**

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

(Replaces S3-232723)

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

**S3-232724 Security procedures for 5G ProSe Layer-2 UE-to-UE Relay**

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

**Decision:** The document was **revised to S3-233183**.

**S3-233183 Security procedures for 5G ProSe Layer-2 UE-to-UE Relay**

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

(Replaces S3-232724)

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

**S3-232725 Selection of UE-to-UE Relay security procedures**

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

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

**S3-232976 Security requirement for UE-to-UE Relay communication**

*Type: other For: Approval  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-233180**.

**S3-233180 Security requirement for UE-to-UE Relay communication**

*Type: other For: Approval  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-232976)

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

**S3-232977 Security of 5G Prose PC5 Communication for 5G ProSe Layer-3 UE-to-UE Relay without network assistance in TS 33.503**

*Type: other For: Approval  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232978 Security for 5G ProSe UE-to-UE Relay communication with integrated discovery**

*Type: other For: Approval  
 Source: Beijing Xiaomi Mobile Software*

**Discussion:**

Qualcomm: this is not concluded in the study yet, we don’t agree with this one now.

Huawei: let's discuss it first in the study.

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

**S3-233025 Living document for 5G\_ProSe\_Ph2**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: CATT*

**Decision:** The document was **revised to S3-233374**.

**S3-233374 Living document for 5G\_ProSe\_Ph2**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: CATT*

(Replaces S3-233025)

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

**S3-233030 PCR to the living document for 5G\_ProSe\_Ph2-Model A discovery**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: CATT*

**Discussion:**

Discussed with 569. Interidigital preferred Qualcomm's contribution.

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

**S3-233066 PCR to the living document for 5G\_ProSe\_Ph2-Model B discovery**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: CATT*

**Decision:** The document was **revised to S3-233178**.

**S3-233178 PCR to the living document for 5G\_ProSe\_Ph2-Model B discovery**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: CATT*

(Replaces S3-233066)

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

**S3-233072 4.25 - Update to 5G UE-to-UE Relay Discovery (Clause 6.1.3.3.1)**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: Philips International B.V.*

**Discussion:**

OPPO: second paragraph is not acceptable.

**Decision:** The document was **revised to S3-233176**.

**S3-233176 4.25 - Update to 5G UE-to-UE Relay Discovery (Clause 6.1.3.3.1)**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: Philips International B.V.*

(Replaces S3-233072)

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

**S3-233073 4.25 - Update to selection of security mechanism (Clause 6.6.3.3)**

*Type: draftCR For: Approval  
 33.503 v17.3.0  
 Source: Philips International B.V.*

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

**S3-233430 Exception sheet 5G\_ProSe\_Ph2**

*Type: WI exception request For: Agreement  
 Source: CATT*

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

### 4.26 New WID on Security Aspects of Ranging Based Services and Sidelink Positioning

**S3-232646 Update clause 4 to TS 33.533**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: ZTE Corporation*

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

**S3-232694 Authorization for application server and 5GC NF in Ranging/SL Positioning service exposure,**

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

**Decision:** The document was **revised to S3-233312**.

**S3-233312 Authorization for application server and 5GC NF in Ranging/SL Positioning service exposure,**

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

(Replaces S3-232694)

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

**S3-232695 Authorization for UE in Ranging/SL Positioning service exposure,**

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

**Discussion:**

Xiaomi didn’t agree with this contribution.

**Decision:** The document was **revised to S3-233398**.

**S3-233398 Authorization for UE in Ranging/SL Positioning service exposure,**

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

(Replaces S3-232695)

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

**S3-232715 Security for the ranging discovery**

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

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

**S3-232716 Ranging unicast security procedures**

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

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

**S3-232962 33.533: Update to the Scope**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233309**.

**S3-233309 33.533: Update to the Scope**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

(Replaces S3-232962)

**Discussion:**

Adding groupcast.

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

**S3-232963 33.533: Overview of security architecture**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

**Decision:** The document was **revised to S3-233310**.

**S3-233310 33.533: Overview of security architecture**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

(Replaces S3-232963)

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

**S3-232964 33.533: Security Requirements and Procedure for Discovery**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233314**.

**S3-233314 33.533: Security Requirements and Procedure for Discovery**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

(Replaces S3-232964)

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

**S3-232965 33.533: Security Procedure for Discovery of V2X capable UEs**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232966 33.533: Authorization Requirements for Ranging/SL Positioning Services**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

**Discussion:**

Ericsson didn’t agree with the last requirement.

Qualcomm: third and fourth requirements were not discussed in the key issue.

**Decision:** The document was **revised to S3-233313**.

**S3-233313 33.533: Authorization Requirements for Ranging/SL Positioning Services**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

(Replaces S3-232966)

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

**S3-232967 33.533: Authorization of AF/5GC NF for Ranging/SL positioning service exposure**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232968 33.533: Procedure of UE Role Authorization by the Network**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

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

**S3-232969 33.533: Security Requirements and Procedures for Unicast Communication**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233315**.

**S3-233315 33.533: Security Requirements and Procedures for Unicast Communication**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

(Replaces S3-232969)

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

**S3-232970 33.533: Security Procedure for Direct Communication without Long Term Credentials**

*Type: pCR For: Approval  
 33.533 v0.0.0  
 Source: Xiaomi Technology*

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

**S3-233311 Draft TS 33.533**

*Type: draft TS For: Approval  
 33.533 v0.1.0  
 Source: Xiaomi*

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

**S3-233449 Exception sheet for Security Aspects of Ranging Based Services and Sidelink Positioning**

*Type: WI exception request For: Agreement  
 Source: Xiaomi*

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

### 4.27 New WID on enhanced security aspects of SEAL for vertical

**S3-233038 [draftCR] Living document for SEAL security for network domain interfaces**

*Type: draftCR For: Approval  
 33.434 v17.3.0  
 Source: Samsung*

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

**S3-233327 SEAL security for network domain interfaces**

*Type: CR For: Approval  
 33.434 v17.3.0 CR-0016 Cat: B (Rel-18)  
  
 Source: Samsung*

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

### 4.28 New WID on application enablement aspects for subscriber-aware northbound API access

**S3-232713 Authentication and authorization for RNAA**

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

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

**S3-232865 Client credential flow**

*Type: other For: Approval  
 33.122 v..  
 Source: Ericsson*

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

**S3-233126 pCR to SNAAPPY CR**

*Type: other For: Approval  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-233407**.

**S3-233407 pCR to SNAAPPY CR**

*Type: other For: Approval  
 Source: NTT DOCOMO INC.*

(Replaces S3-233126)

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

**S3-233127 SNAAPPY CR baseliine**

*Type: draftCR For: Agreement  
 33.122 v17.1.0  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-233426**.

**S3-233426 SNAAPPY CR baseline**

*Type: draftCR For: Agreement  
 33.122 v17.1.0  
 Source: NTT DOCOMO INC.*

(Replaces S3-233127)

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

**S3-233437 Exception sheet SNAAPY**

*Type: WI exception request For: Agreement  
 Source: NTT-Docomo*

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

## 5 Rel-18 Studies

### 5.1 Study on 5G security enhancement against false base stations

**S3-232818 5GFBS - Conclusion**

*Type: pCR For: Approval  
 33.809 v0.20.0  
 Source: Apple*

**Decision:** The document was **revised to S3-233328**.

**S3-233328 5GFBS - Conclusion**

*Type: pCR For: Approval  
 33.809 v0.20.0  
 Source: Apple*

(Replaces S3-232818)

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

**S3-233213 Cover page TR 33.809**

*Type: TS or TR cover For: Approval  
 33.809 v..  
 Source: Apple*

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

**S3-233446 Draft TR 33.809**

*Type: draft TR For: Approval  
 33.809 v0.21.0  
 Source: Apple*

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

### 5.2 Study on Security Impacts of Virtualisation

**S3-232845 New solution on attestation at 3GPP application layer**

*Type: pCR For: Approval  
 33.848 v0.14.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233305**.

**S3-233305 New solution on attestation at 3GPP application layer**

*Type: pCR For: Approval  
 33.848 v0.14.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232845)

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

**S3-232872 pCR to TR33.848 - Editorial corrections**

*Type: pCR For: Approval  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

**Abstract:**

Editorial corrections to doc to make it ready to show for information

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

**S3-232875 pCR to TR33.848 - Addition of evaluation for Solution #1**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

**Decision:** The document was **revised to S3-233156**.

**S3-233156 pCR to TR33.848 - Addition of evaluation for Solution #1**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

(Replaces S3-232875)

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

**S3-232876 pCR to TR33.848 - Addition of evaluation for Solution #2**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

**Decision:** The document was **revised to S3-233157**.

**S3-233157 pCR to TR33.848 - Addition of evaluation for Solution #2**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

(Replaces S3-232876)

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

**S3-232877 pCR to TR33.848 - Addition of evaluation for Solution #3**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

**Decision:** The document was **revised to S3-233158**.

**S3-233158 pCR to TR33.848 - Addition of evaluation for Solution #3**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

(Replaces S3-232877)

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

**S3-232880 pCR to TR33.848 - Addition of evaluation for Solution #4**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

**Decision:** The document was **revised to S3-233159**.

**S3-233159 pCR to TR33.848 - Addition of evaluation for Solution #4**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

(Replaces S3-232880)

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

**S3-232882 pCR to TR33.848 - Addition of evaluation for Solution #5**

*Type: pCR For: Approval  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

**Decision:** The document was **revised to S3-233160**.

**S3-233160 pCR to TR33.848 - Addition of evaluation for Solution #5**

*Type: pCR For: Approval  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

(Replaces S3-232882)

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

**S3-232884 pCR to TR33.848 - Addition of evaluation for Solution #6**

*Type: pCR For: Approval  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

**Decision:** The document was **revised to S3-233161**.

**S3-233161 pCR to TR33.848 - Addition of evaluation for Solution #6**

*Type: pCR For: Approval  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

(Replaces S3-232884)

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

**S3-232912 pCR to TR33.848 - Addition of evaluation for Solution #7**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

**Decision:** The document was **revised to S3-233162**.

**S3-233162 pCR to TR33.848 - Addition of evaluation for Solution #7**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

(Replaces S3-232912)

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

**S3-232913 pCR to TR33.848 - Addition of evaluation for Solution #8**

*Type: pCR For: Approval  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

**Decision:** The document was **revised to S3-233163**.

**S3-233163 pCR to TR33.848 - Addition of evaluation for Solution #8**

*Type: pCR For: Approval  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

(Replaces S3-232913)

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

**S3-232914 Cover Sheet for TR 33.848 - For Information**

*Type: TS or TR cover For: Approval  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

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

**S3-233164 Cover Sheet for TR 33.848 - For Information**

*Type: TS or TR cover For: Approval  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

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

**S3-232915 pCR to TR33.848 - Addition of Conclusions and Recommendations**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

**Decision:** The document was **revised to S3-233306**.

**S3-233306 pCR to TR33.848 - Addition of Conclusions and Recommendations**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

(Replaces S3-232915)

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

**S3-232944 pCR to TR33.848 - Addition of Appendix - Potential contents page for an Attestation TR**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

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

**S3-233079 pCR to TR33.848 - Update of Annex B**

*Type: pCR For: Agreement  
 33.848 v0.14.0  
 Source: Vodafone GmbH*

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

**S3-233384 Draft TR 33.848**

*Type: draft TR For: Approval  
 33.848 v0.15.0  
 Source: Vodafone*

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

### 5.3 Study on Security Aspects of Proximity Based Services in 5GS Phase 2

**S3-232571 Updates on the solution #23**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-232572 Updates on the solution #24**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-232573 Conclusion of KI#1**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-232574 Conclusion of KI#2**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-232575 Conclusion of KI#5**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-232593 Update to TR 33.740 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: InterDigital, Inc.*

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

**S3-232594 Discussion on ProSe U2U Relay discovery security with Model A**

*Type: discussion For: Discussion  
 33.740 v..  
 Source: InterDigital, Inc.*

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

**S3-232595 DRAFT LS on Security for U2U Relay Discovery with Model A**

*Type: LS out For: Approval  
 to SA2, cc CT1  
 Source: InterDigital, Inc.*

**Discussion:**

Qualcomm didn’t agree with sending this LS.

Key issue 1 can be agreed in SA3. Key issue 2 is not clear on the protected discovery sets.

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

**S3-232596 Update TR 33.740 conclusion for KI #2**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: InterDigital, Inc., Philips International B.V., Huawei, HiSilicon, Xiaomi*

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

**S3-232597 Update TR 33.740 conclusion for KI #4**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: InterDigital, Inc.*

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

**S3-232598 Update TR 33.740 Solution #34**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: InterDigital, Inc.*

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

**S3-232599 Update to TR 33.740 Solution #35**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: InterDigital, Inc.*

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

**S3-232600 Update to TR 33.740 Solution #36**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: InterDigital, Inc.*

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

**S3-232601 Update Evaluation TR 33.740 solution #12**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: InterDigital, Inc.*

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

**S3-232680 Update to solution #31**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Ericsson*

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

**S3-232683 Update to solution #3**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Ericsson*

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

**S3-232684 Update to conclusion for KI#1**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Ericsson*

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

**S3-232685 Update to conclusion for KI#2**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Ericsson*

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

**S3-232720 Update to the conclusion of KI#1 in TR 33.740 to include the Discovery integrated in PC5**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-232972 Update to Conclusion on Key Issue #1 in TR 33.740**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Beijing Xiaomi Mobile Software*

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

**S3-232973 draft LS on UE-to-UE Relay discovery**

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

**Discussion:**

CATT: SA3 can reuse existing solutions.We don’t need this LS.

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

**S3-233005 pCR to TR33.740 Update Solution #28**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: CATT*

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

**S3-233006 pCR to TR33.740 Update conclusion of key issue #1**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: CATT*

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

**S3-233007 pCR to TR33.740 Update conclusion of key issue #5**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: CATT*

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

**S3-233040 Conclusion on KI #1**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Samsung, KT*

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

**S3-233041 Conclusion on KI #5**

*Type: pCR For: Approval  
 33.740 v0.6.0  
 Source: Samsung, KT*

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

**S3-233067 5.3 - Update to Solution 32**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Philips International B.V.*

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

**S3-233068 5.3 - Update to Solution 37**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Philips International B.V.*

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

**S3-233069 5.3 - Conclusion to KI 1**

*Type: pCR For: Approval  
 33.740 v0.7.0  
 Source: Philips International B.V.*

**Discussion:**

Two options were on the table according to the group of contributions::

Option 1: DCR protected with network assistant information.

Option 2: DCR not protected without network assistant mechanisms.

CATT proposed to support both options and make it optional which one to use.

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

**S3-233115 Conclusion for KI#5**

*Type: pCR For: (not specified)  
 33.740 v0.7.0  
 Source: OPPO*

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

**S3-233408 Cover sheet TR 33.740**

*Type: TS or TR cover For: Approval  
 33.740 v..  
 Source: CATT*

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

### 5.4 Study on privacy of identifiers over radio access

**S3-232407 Update to Solution #11 in ID Privacy**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Johns Hopkins University APL*

**Abstract:**

Update to Solution 11

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

**S3-232426 Add Evaluation to Solution #12 in ID Privacy**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Johns Hopkins University APL, InterDigital*

**Abstract:**

Evaluation to Solution #12 in ID Privacy

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

**S3-232429 Evaluation of Solution #11 in ID Privacy**

*Type: pCR For: Agreement  
 33.870 v0.6.0  
 Source: Peraton Labs*

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

**S3-232500 PCR to 33.870 Changes to Solution #2**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: InterDigital Communications*

**Abstract:**

This contribution proposes changes to Solution #2 in TR 33.870.

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

**S3-232501 PCR to 33.870 - Solution #2 Evaluation**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: InterDigital Communications*

**Abstract:**

This contribution proposes an evaluation for Solution #2 in TR 33.870.

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

**S3-232510 A discussion paper on conclusions for KI #1: Privacy aspects of variable length user identifiers**

*Type: discussion For: Information  
 33.870 v..  
 Source: InterDigital Communications, CableLabs, Convida Wireless, Ericsson, Nokia, Philips, Telefonica, US National Security Agency, Verizon Wireless*

**Abstract:**

This contribution presents a discussion paper on conclusions for KI #1: Privacy aspects of variable length user identifiers.

**Decision:** The document was **revised to S3-233083**.

**S3-232582 Correction to Solution 11 - Protecting the privacy of high priority users**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Qualcomm Incorporated, Huawei, HiSilicon*

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

**S3-232583 Evaluation of Solution 11 - Protecting the privacy of high priority users**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Qualcomm Incorporated, Huawei, HiSilicon*

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

**S3-232584 Proposed Evaluation to Solution 12**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Qualcomm Incorporated*

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

**S3-232585 Proposed conclusion to KI#2- Protecting the privacy of high priority users**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Qualcomm Incorporated, Huawei, HiSilicon*

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

**S3-232586 pCR: Conclusion for KI#1**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Qualcomm Incorporated, Huawei, HiSilicon*

**Discussion:**

China Mobile supported this contribution.

Lenovo: fine with this one, but the alternative in 3057 could also be fine if the example in the second bullet was removed.

Qualcomm: remove the fitst sentence.Add an editor's note on further conclusion is FFS.

**Decision:** The document was **revised to S3-233186**.

**S3-233186 pCR: Conclusion for KI#1**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Qualcomm Incorporated, Huawei, HiSilicon*

(Replaces S3-232586)

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

**S3-232602 Update to Solution #11 in ID Privacy**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Johns Hopkins University APL, InterDigital*

**Abstract:**

Update to Solution #11 in ID Privacy.

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

**S3-232668 Solution 12: Delete Privacy EN**

*Type: pCR For: (not specified)  
 33.870 v0.6.0  
 Source: Intel Belgium SA/NV*

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

**S3-232669 Solution 12: Delete Privacy EN**

*Type: pCR For: (not specified)  
 33.870 v0.6.0  
 Source: Intel Belgium SA/NV*

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

**S3-232873 Supplement to Solution #7**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: China Telecommunications*

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

**S3-232921 EN Removal for sol#4 33.870**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: China Mobile*

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

**S3-232922 Evaluation for sol#4 33.870**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: China Mobile*

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

**S3-232981 New sol to KI#2 of TR 33.870**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Xiaomi communications*

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

**S3-233055 Updating Solution #9: Concealing length of SUPIs in SUCIs by padding the SUPIs**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Ericsson*

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

**S3-233056 Updating Evaluation of Solution #9: Concealing length of SUPIs in SUCIs by padding the SUPIs**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Ericsson*

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

**S3-233057 KI #1 Conclusion**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Ericsson, Interdigital, Nokia, Nokia Shanghai Bell, Convida Wireless, CableLabs, NCSC, Telefonica, US NSA, Philips, Verizon Wireless and John Hopkins University*

**Discussion:**

Thales: remove USIM and/or ME.

IDEMIA: subscription is in the USIM. SUPI is a part of the subscription parameters.

Qualcomm: we don’t agree with the third conclusion proposal.

Huawei: we don’t have a solution ready.It seems to have an UE impact, is it worth it?

China Mobile: we don’t agree with the third bullet conclusion.

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

**S3-233077 New Solution to KI #2**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Ericsson*

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

**S3-233083 A discussion paper on conclusions for KI #1: Privacy aspects of variable length user identifiers**

*Type: discussion For: Information  
 33.870 v..  
 Source: InterDigital Communications, CableLabs, Convida Wireless, Ericsson, NCSC, Nokia, Philips, Telefonica, US National Security Agency, Verizon Wireless*

(Replaces S3-232510)

**Abstract:**

This contribution presents a discussion paper on conclusions for KI #1: Privacy aspects of variable length user identifiers. It is a revision of the previously submitted S3-232510 adding an additional sourcing company and fixing some editorials.

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

**S3-233122 Update to Solution #1 in ID Privacy**

*Type: pCR For: Approval  
 33.870 v0.6.0  
 Source: Lenovo*

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

**S3-233378 Draft TR 33.870**

*Type: draft TR For: Approval  
 33.870 v0.7.0  
 Source: Interdigital*

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

### 5.5 Study on Standardising Automated Certificate Management in SBA

**S3-232408 Evaluation of Solution #16, ACME, for Automated Certificate Management in SBA**

*Type: pCR For: Approval  
 33.876 v0.7.0  
 Source: Cisco Systems, Google, Telefonica, Charter Communications, AT&T, CableLabs*

**Abstract:**

An evaluation is added for Solution #16

**Decision:** The document was **revised to S3-233187**.

**S3-233187 Evaluation of Solution #16, ACME, for Automated Certificate Management in SBA**

*Type: pCR For: Approval  
 33.876 v0.7.0  
 Source: Cisco Systems, Google, Telefonica, Charter Communications, AT&T, CableLabs*

(Replaces S3-232408)

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

**S3-232425 Address EN in Solution #16, ACME, for Automated Certificate Management in SBA**

*Type: pCR For: Approval  
 33.876 v0.7.0  
 Source: Cisco Systems, CableLabs, Google*

**Abstract:**

The ACME client and server in the solution overview can be mapped to the CEMAF reference point architecture described in section 6.1.2.2, thus addressing the EN.

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

**S3-232512 TR 33.876 cover for Information and Approval**

*Type: TS or TR cover For: Approval  
 33.876 v-  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232513 Update of IETF reference in Solution 10 and removal of EN in KI7 conclusion**

*Type: pCR For: Approval  
 33.876 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232514 Editorials in clause 3 of TR 33.876**

*Type: pCR For: Approval  
 33.876 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232515 Conclusion of ACM\_SBA KI#6**

*Type: pCR For: Approval  
 33.876 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

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

**S3-232824 KI#6 Sol#7 EN resolution and evaluation**

*Type: pCR For: (not specified)  
 33.876 v0.7.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233188**.

**S3-233188 KI#6 Sol#7 EN resolution and evaluation**

*Type: pCR For: -  
 33.876 v0.7.0  
 Source: Ericsson*

(Replaces S3-232824)

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

**S3-233137 Address Editor Note in Solution #16 Section 6.16.2.2.2.3 Certificate Validation**

*Type: pCR For: Approval  
 33.876 v0.7.0  
 Source: Google Inc., Cablelabs, Deutsche Telekom*

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

**S3-233189 draft TR 33.876**

*Type: draft TR For: Approval  
 33.876 v0.8.0  
 Source: Nokia*

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

### 5.6 New SID on AKMA phase 2

**S3-232647 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.737 v0.6.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-233275**.

**S3-233275 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.737 v0.6.0  
 Source: ZTE Corporation*

(Replaces S3-232647)

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

**S3-232930 Clarification of the scope**

*Type: pCR For: Approval  
 33.737 v0.7.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-233276**.

**S3-233276 Clarification of the scope**

*Type: pCR For: Approval  
 33.737 v0.7.0  
 Source: China Mobile*

(Replaces S3-232930)

**Discussion:**

Third bullet and note go away. MCC commented that if the key issue was not addressed it needed to be removed from the scope.In case the Study had this issue in the objectives it would need to be revised as well to reflect that fact that it wasn’t treated.

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

**S3-232931 Presentation of TR 33.737 to TSG**

*Type: TS or TR cover For: Approval  
 33.737 v0.7.0  
 Source: China Mobile*

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

**S3-233277 Draft TR 33.737**

*Type: draft TR For: Approval  
 33.737 v0.7.0  
 Source: China Mobile*

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

### 5.7 Study of Security aspect of home network triggered primary authentication

### 5.8 Study on security aspects of enablers for Network Automation for 5G – phase 3

**S3-232502 Update to conclusion on KI#2**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: China Telecommunications*

**Decision:** The document was **revised to S3-233250**.

**S3-233250 Update to conclusion on KI#2**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: China Telecommunications*

(Replaces S3-232502)

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

**S3-232503 Update to conclusion on KI#3**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: China Telecommunications*

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

**S3-232532 Resolution of ENs of KI#2 conclusion in eNA\_SEC\_Ph3**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232533 Resolution of ENs of KI#1 conclusion in eNA\_SEC\_Ph3**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson didn’t agree with the authorization policies in the authorization token.

**Decision:** The document was **revised to S3-233249**.

**S3-232534 Conclusion of eNA\_SEC\_Ph3 KI#4**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo*

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

**S3-232666 Resolution of EN for KI#2**

*Type: pCR For: (not specified)  
 33.738 v1.1.0  
 Source: Intel Belgium SA/NV*

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

**S3-232699 Update conclusion for KI#3**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Huawei, HiSilicon*

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

**S3-232706 Conclusion update for AI ML model authorization**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Huawei, HiSilicon*

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

**S3-232707 Conclusion for abnormal NF detection**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Huawei, HiSilicon*

**Discussion:**

It was commented that the key issue 4 wasn't really agreed and that is why no consensus could be reached since Release 17.

**Decision:** The document was **revised to S3-233262**.

**S3-233262 Conclusion for abnormal NF detection**

*Type: pCR For: Approval  
 33.738 v1.0.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232707)

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

**S3-232904 Resolve EN to conclusion to KI#2 "Authorization of selection of participant NWDAF instances in the Federated Learning group"**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Ericsson*

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

**S3-232905 Resolution of EN in the conclusion for KI#3 "Security for AI/ML model storage and sharing"**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Ericsson, Nokia, Intel*

**Decision:** The document was **revised to S3-233251**.

**S3-233251 Resolution of EN in the conclusion for KI#3 "Security for AI/ML model storage and sharing"**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Ericsson, Nokia, Intel*

(Replaces S3-232905)

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

**S3-232935 Conclusion for key issue #4**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: China Mobile*

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

**S3-232936 Conclusion for key issue #6**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-233265**.

**S3-233265 Conclusion for key issue #6**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: China Mobile*

(Replaces S3-232936)

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

**S3-232937 Update conclusion for key issue #1**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: China Mobile*

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

**S3-233249 Resolution of ENs of KI#1 conclusion in eNA\_SEC\_Ph3**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Nokia*

(Replaces S3-232533)

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

**S3-232938 Presentation of TR33.738 to TSG for approval**

*Type: TS or TR cover For: Approval  
 33.738 v1.1.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-233436**.

**S3-233436 Presentation of TR 33.738 to TSG for approval**

*Type: TS or TR cover For: Approval  
 33.738 v1.1.0  
 Source: China Mobile*

(Replaces S3-232938)

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

**S3-233123 Update to Solution #9 in eNA**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Lenovo*

**Discussion:**

Huawei: change editor's notes to NOTES.

**Decision:** The document was **revised to S3-233263**.

**S3-233263 Update to Solution #9 in eNA**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Lenovo*

(Replaces S3-233123)

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

**S3-233124 Update to Solution #20 in eNA**

*Type: pCR For: Approval  
 33.738 v1.1.0  
 Source: Lenovo*

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

**S3-233264 Draft TR 33.738**

*Type: draft TR For: Approval  
 33.738 v1.2.0  
 Source: China Mobile*

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

### 5.9 Study on Security Enhancement of support for Edge Computing — phase 2

**S3-232478 Adding evaluation for Sol#26**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: InterDigital Communications*

**Abstract:**

Adding evaluation for Sol#26

**Decision:** The document was **revised to S3-233283**.

**S3-233283 Adding evaluation for Sol#26**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: InterDigital Communications*

(Replaces S3-232478)

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

**S3-232479 EEC Authorization by V-ECS in VPLMN**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: InterDigital Communications*

**Abstract:**

EEC Authorization by V-ECS in VPLMN

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

**S3-232480 A solution for EEC IP address verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: InterDigital Communications*

**Abstract:**

A solution for EEC IP address verification

**Decision:** The document was **revised to S3-233366**.

**S3-233366 A solution for EEC IP address verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: InterDigital Communications*

(Replaces S3-232480)

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

**S3-232481 Updates for Solution #26**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: InterDigital Communications*

**Abstract:**

Updates for Solution #26

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

**S3-232482 Additional Scenario for Solution #26 – Scenario 2**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: InterDigital Communications*

**Abstract:**

Additional Scenario for Solution #26 – Scenario 2

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

**S3-232483 Additional Scenario for Solution #26 – Scenario 3**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: InterDigital Communications*

**Abstract:**

Additional Scenario for Solution #26 – Scenario 3

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

**S3-232783 Update the Key issue on EEC provided information verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-232784 New solution for EEC provided IP address verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233344**.

**S3-233344 New solution for EEC provided IP address verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232784)

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

**S3-232817 MEC - Adding conclusions on UE optimisation in KI#2.2**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Apple*

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

**S3-232834 Resolving EN in Conclusions for Key Issue #2.6**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-232835 Resolving EN of in Conclusions for Key Issue#2.1**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233169**.

**S3-233169 Resolving EN of in Conclusions for Key Issue#2.1**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232835)

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

**S3-232854 Resolving EN in solution #27**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233303**.

**S3-233303 Resolving EN in solution #27**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Ericsson*

(Replaces S3-232854)

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

**S3-232855 Update conclusion on authorization between EESes**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Ericsson*

**Discussion:**

Huawei: there are still issues in the solution that need to be addressed. This is a bit premature.

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

**S3-232857 Conclusion for EEC provided IP address verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Ericsson*

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

**S3-232858 Resolving ENs in solution #28**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Ericsson*

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

**S3-232982 Update KI#2.1 conclusion of TR 33.739**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Xiaomi communications*

**Discussion:**

Thales, Qualcomm disagreed as it was written here.

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

**S3-232983 KI#2.7, new sol on AKMAGBA based IP address verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-233367**.

**S3-233367 KI#2.7, new sol on AKMAGBA based IP address verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Xiaomi communications*

(Replaces S3-232983)

**Discussion:**

Removing evaluation.

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

**S3-232984 KI#2.7, new sol on KDF based IP verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-233368**.

**S3-233368 KI#2.7, new sol on KDF based IP verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Xiaomi communications*

(Replaces S3-232984)

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

**S3-233046 Updates to conclusion#2.1**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Samsung, Ericsson*

**Discussion:**

NTT-Docomo, Apple: the content is agreed but it shouldn’t be a conclusion. Better placed in the TS in the form of a note.

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

**S3-233047 Updates to conclusion#2.2**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Samsung, Huawei, HiSilicon, Intel, CableLabs, China Unicom, ZTE, Thales, Lenovo, Hyundai Motor Company, InterDigital Communications, KT, Deutsche Telekom*

**Discussion:**

Show of hands on the optimization procedure in this document:

Support: Samsung, Huawei,Interdigital, DT,Thales, ZTE.

No support: Xiaomi, Apple,Ericsson, Vivo.

The Chair commented that this was optional for the network and UE. Apple commented that there was no big difference between the hands raised.

The Chair declared a working agreement on the content of tdoc S3-233047.

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

**S3-233049 Updates to evaluation of solution#28**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Samsung*

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

**S3-233050 New solution for IP address verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-233369**.

**S3-233369 New solution for IP address verification**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Samsung*

(Replaces S3-233050)

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

**S3-233051 New solution for IP address verification using access token**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-233370**.

**S3-233370 New solution for IP address verification using access token**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Samsung*

(Replaces S3-233051)

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

**S3-233052 Conclusion for key issue#2.7**

*Type: pCR For: Approval  
 33.739 v0.7.0  
 Source: Samsung*

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

**S3-233197 Draft TR 33.739**

*Type: draft TR For: Approval  
 33.739 v0.8.0  
 Source: Huawei*

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

### 5.10 Study on Personal IoT Networks Security Aspects

**S3-232581 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: Qualcomm Incorporated*

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

**S3-232648 Add conclusion for KI#2**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: ZTE Corporation*

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

**S3-232667 Conclusion for KI#2: Authorization of PIN capabilities.**

*Type: pCR For: (not specified)  
 33.882 v0.7.0  
 Source: Intel Belgium SA/NV*

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

**S3-232686 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-232750 Conclusion to KI#1**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-232756 clean up KI #1**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-232831 Conclusions to KI#1**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233433**.

**S3-233433 Conclusions to KI#1**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232831)

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

**S3-232832 Conclusions to KI#2**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232987 Add conclusion for KI #2 of TR 33.882**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: Xiaomi communications*

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

**S3-232988 Add conclusion to KI#1 of TR 33.882**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: Xiaomi communications*

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

**S3-233008 Cover sheet for presentation of TR 33.882 to TSG-SA#100**

*Type: TS or TR cover For: Approval  
 33.882 v0.7.0  
 Source: vivo*

**Decision:** The document was **revised to S3-233273**.

**S3-233273 Cover sheet for presentation of TR 33.882 to TSG-SA#100**

*Type: TS or TR cover For: Approval  
 33.882 v0.7.0  
 Source: vivo*

(Replaces S3-233008)

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

**S3-233024 Interim conclusions on KI#1**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: vivo*

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

**S3-233026 Interim conclusions on KI#2**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: vivo*

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

**S3-233027 Mega to clean up ENs**

*Type: pCR For: Approval  
 33.882 v0.7.0  
 Source: vivo*

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

**S3-233409 Draft TR 33.882**

*Type: draft TR For: Approval  
 33.882 v0.8.0  
 Source: Vivo*

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

### 5.11 Study on SNAAPP security

**S3-232712 Address ENs for solution #1**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233356**.

**S3-233356 Address ENs for solution #1**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Huawei, HiSilicon*

(Replaces S3-232712)

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

**S3-232863 Resolving EN in solution #6**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233304**.

**S3-233304 Resolving EN in solution #6**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Ericsson*

(Replaces S3-232863)

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

**S3-232864 Update to conclusion**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Ericsson*

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

**S3-232990 KI#1, new sol on checking API invoker authorization**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Xiaomi communications*

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

**S3-232991 KI#2, add evaluation to sol #14**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Xiaomi communications*

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

**S3-232992 KI#2, update sol #14 for the triggering of authorization revocation**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Xiaomi communications*

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

**S3-232993 Update authorization revocation conclusion**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Xiaomi communications*

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

**S3-232994 Update conclusion of TR 33.884**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Xiaomi communications*

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

**S3-233028 pCR to 33.884 - conclusions**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-233274**.

**S3-233274 pCR to 33.884 - conclusions**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: NTT DOCOMO INC.*

(Replaces S3-233028)

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

**S3-233029 pCR to 33.884 - TR cleanup**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-233427**.

**S3-233427 pCR to 33.884 - TR cleanup**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: NTT DOCOMO INC.*

(Replaces S3-233029)

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

**S3-233042 Resolving EN on conclusion**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Samsung*

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

**S3-233043 Updates to sol#6**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Samsung*

**Decision:** The document was **revised to S3-233324**.

**S3-233324 Updates to sol#6**

*Type: pCR For: Approval  
 33.884 v1.1.1  
 Source: Samsung*

(Replaces S3-233043)

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

**S3-233382 Draft TR 33.884**

*Type: draft TR For: Approval  
 33.884 v1.2.0  
 Source: NTT-Docomo*

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

**S3-233428 Cover sheet TR 33.884**

*Type: TS or TR cover For: Approval  
 33.884 v..  
 Source: NTT\_Docomo*

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

### 5.12 Study on enhanced security for network slicing Phase 3

Show of hands:

Way forward to KI#3 conclusions:

A --> Huawei, Nokia,LG Merge of 657 + 3100 + 810

B--> Ericsson Tdoc 794

Way forward to Key issue#2 conclusions:

A --> Huawei, ZTE Merge of 655 + 650

B --> Ericsson, Qualcomm Tdoc 679

**S3-232650 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: ZTE Corporation*

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

**S3-232653 KI#1 update**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Huawei, HiSilicon*

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

**S3-232654 new solution to KI#2**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233361**.

**S3-233361 new solution to KI#2**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232654)

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

**S3-232655 conclusions to KI#2**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233357**.

**S3-233357 conclusions to KI#2**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232655)

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

**S3-232656 Evaluation to solution#1**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233359**.

**S3-233359 Evaluation to solution#1**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232656)

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

**S3-232657 conclusions to KI#3**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233358**.

**S3-233358 conclusions to KI#3**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232657)

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

**S3-232679 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Ericsson*

**Abstract:**

The contribution proposes conclusion for KI#2.

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

**S3-232794 Conclusion for KI#3**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Ericsson*

**Abstract:**

The contribution proposes conclusion for KI#3.

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

**S3-232810 Conclusion for KI#3**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: LG Electronics*

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

**S3-232989 Add evaluation to sol #3 of TR 33.886**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Xiaomi communications*

**Decision:** The document was **revised to S3-233360**.

**S3-233360 Add evaluation to sol #3 of TR 33.886**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Xiaomi communications*

(Replaces S3-232989)

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

**S3-233100 conclusion for KI#3 network slice admission control**

*Type: pCR For: Approval  
 33.886 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-233385 Draft TR 33.886**

*Type: draft TR For: Approval  
 33.886 v0.6.0  
 Source: Huawei*

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

**S3-233399 Cover sheet TR 33.886**

*Type: TS or TR cover For: Approval  
 33.886 v..  
 Source: Huawei*

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

### 5.13 Study on Security aspects for 5WWC Phase 2

**S3-232494 KI3 conclusion update**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232495 KI4 conclusion**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232496 updating the existing solution mapping**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232497 Presentation of Report to TSG:**

**TR 33.887, Version 0.7.0**

*Type: TS or TR cover For: Approval  
 33.887 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232498 Revised WID on Security aspect of 5WWC**

*Type: WID revised For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-232557 Proposed conclusion for KI#4**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Qualcomm Incorporated, Cablelabs, Broadcom*

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

**S3-232737 Add conclusion to KI#4**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Huawei, HiSilicon*

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

**S3-232738 Update solution#11**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233280**.

**S3-233280 Update solution#11**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232738)

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

**S3-232906 Resolving ENs in Solution #13**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233381**.

**S3-233381 Resolving ENs in Solution #13**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Ericsson*

(Replaces S3-232906)

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

**S3-233084 TR cleanup**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-233288**.

**S3-233288 TR cleanup**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-233084)

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

**S3-233093 Discussion on KI#4 solution analysis**

*Type: discussion For: Discussion  
 33.887 v..  
 Source: Lenovo*

**Decision:** The document was **noted**.

**S3-233107 LS on Clarification of support for trusted non-3GPP technologies**

*Type: LS out For: Approval  
 to SA2  
 Source: Lenovo*

**Decision:** The document was **noted**.

**S3-233108 Conclusion to KI#4**

*Type: pCR For: Approval  
 33.887 v0.6.0  
 Source: Lenovo, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**S3-233279 Draft TR 33.887**

*Type: draft TR For: Approval  
 33.887 v0.7.0  
 Source: Nokia*

**Decision:** The document was **approved**.

### 5.14 Study on the security aspects of Artificial Intelligence (AI)/Machine Learning (ML) for the NG-RAN

**S3-232453 Discussion paper on Effects of black-box data poisoning on RAN AI/ML**

*Type: discussion For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**S3-232455 Key issue updates for robustness of the RAN AI/ML framework against data poisoning attacks**

*Type: pCR For: (not specified)  
 33.877 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**S3-232457 Solution for Key Issue #2**

*Type: pCR For: (not specified)  
 33.877 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**S3-232460 Updates for Key Issue #1 User Privacy of the RAN AI/ML framework**

*Type: pCR For: (not specified)  
 33.877 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**S3-232462 Solution for Key Issue #1**

*Type: pCR For: (not specified)  
 33.877 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **noted**.

**S3-233009 AIML\_NGRAN KI2 conclusion**

*Type: pCR For: Approval  
 33.877 v0.5.0  
 Source: Ericsson*

**Decision:** The document was **noted**.

**S3-233010 AIML\_NGRAN KI1 conclusion**

*Type: pCR For: Approval  
 33.877 v0.5.0  
 Source: Ericsson*

**Decision:** The document was **noted**.

**S3-233011 AIML\_NGRAN KI3 conclusion**

*Type: pCR For: Approval  
 33.877 v0.5.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S3-233363 Draft TR33.877**

*Type: draft TR For: Approval  
 33.877 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S3-233393 Cover sheet TR 33.877**

*Type: TS or TR cover For: Approval  
 33.877 v..  
 Source: Ericsson*

**Decision:** The document was **approved**.

### 5.15 Study on security support for Next Generation Real Time Communication services

**S3-232846 Conclusion for key issue #1**

*Type: pCR For: Approval  
 33.890 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233297**.

**S3-233297 Conclusion for key issue #1**

*Type: pCR For: Approval  
 33.890 v0.7.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232846)

**Decision:** The document was **approved**.

**S3-232850 Cleanups for RTC**

*Type: pCR For: Approval  
 33.890 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233300**.

**S3-233300 Cleanups for RTC**

*Type: pCR For: Approval  
 33.890 v0.7.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232850)

**Decision:** The document was **approved**.

**S3-233301 Draft TR 33.890**

*Type: draft TR For: Approval  
 33.890 v0.8.0  
 Source: Huawei*

**Decision:** The document was **approved**.

**S3-233302 Presentation of TR33.890 to TSG for information and approval**

*Type: TS or TR cover For: Approval  
 33.890 v..  
 Source: Huawei*

**Decision:** The document was **approved**.

### 5.16 Study on security aspects of enhanced support of Non-Public Networks phase 2

**S3-232618 Solution using credential holder AAA for NSWO via 5GC**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: CableLabs, Charter Communications*

**Discussion:**

Qualcomm: not clear what motivates this. This is not in the SA2 spec on NSWO. There are non seciurity issues here that need to be solved by SA2.

**Decision:** The document was **revised to S3-233402**.

**S3-233402 Solution using credential holder AAA for NSWO via 5GC**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: CableLabs, Charter Communications*

(Replaces S3-232618)

**Decision:** The document was **approved**.

**S3-232619 Additional conclusion on using Credential Holder AAA for NSWO**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: CableLabs, Charter Communications*

**Decision:** The document was **noted**.

**S3-232710 New Solution on Implicit Authentication for Serving Network for NSWO support in SNPN**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **noted**.

**S3-232711 Conclusion for Implicit Authentication for Serving Network related to NSWO**

*Type: pCR For: Approval  
 33.858 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **noted**.

**S3-232735 Delete Editor's Note to sol#18**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233403**.

**S3-233403 Delete Editor's Note to sol#18**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232735)

**Decision:** The document was **approved**.

**S3-232736 Update conclusion 7.1.3**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **merged**.

**S3-232828 Resolution of EN – conclusion to KI#1 – N5GC device access**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **approved**.

**S3-232829 Resolution of EN – conclusion to KI#1 – Trusted access**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Intel*

**Decision:** The document was **revised to S3-233235**.

**S3-233235 Resolution of EN – conclusion to KI#1 – Trusted access**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Intel*

(Replaces S3-232829)

**Decision:** The document was **approved**.

**S3-232907 Updated conclusion for KI#1 regarding trusted access**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Ericsson*

**Decision:** The document was **merged**.

**S3-232908 Updated conclusion for KI#1 regarding N5CW access**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S3-232909 Updated conclusion of KI#2 Authentication for UE access to hosting network**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233404**.

**S3-233404 Updated conclusion of KI#2 Authentication for UE access to hosting network**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Ericsson*

(Replaces S3-232909)

**Decision:** The document was **approved**.

**S3-232910 Clean up of TR 33.858**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233236**.

**S3-233236 Clean up of TR 33.858**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Ericsson*

(Replaces S3-232910)

**Decision:** The document was **approved**.

**S3-232911 Presentation of Report to TSG: TR 33.858, Version 2.0.0**

*Type: TS or TR cover For: Approval  
 33.858 v1.1.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

**S3-232985 Update Conclusion for Trusted N3GPP access to SNPN**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Xiaomi communications*

**Decision:** The document was **noted**.

**S3-232986 update Sol#2 for tracability of UE**

*Type: pCR For: Approval  
 33.858 v1.1.0  
 Source: Xiaomi communications*

**Decision:** The document was **noted**.

**S3-233237 Draft TR 33.858**

*Type: draft TR For: Approval  
 33.858 v1.2.0  
 Source: Ericsson*

**Decision:** The document was **approved**.

### 5.17 Study on Security of Phase 2 for UAS, UAV and UAM

### 5.18 Study to enable URSP rules to securely identify Applications

Show of hands:

Support of tdoc 2589: Ericsson, Huawei,NTT-Docomo, Interdigital,Apple, Qualcomm, OPPO, Google.

Support of 2868: China Mobile, Verizon, Cable Labs, Nokia, China Telecom,DT, At&T,Lenovo, Intel,Samsung, LG,Xiaomi,Charter.

No clear majority.

Huawei doubted whether a working agreement would make sense here. The problem is the disagreement in the evaluationl. In the next phase companies will still block it so they asked companies to reconsider.

Orange: working agreement on something that is not a CR?This will not be seen in Plenary.

Lenovo wanted to work on a CR and come back in the next meeting together with the WID.

Qualcomm: keep the evaluation open until next meeting.

**S3-232588 pCR: Evaluation of Solution #1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**S3-233362 pCR: Evaluation of Solution #1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **withdrawn**.

**S3-232589 pCR: Conclusion for TR 33.892**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Qualcomm Incorporated*

**Discussion:**

Apple: we support this, there is no technical feasibility.

**Decision:** The document was **noted**.

**S3-232658 new solution to KI#1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **noted**.

**S3-232659 conclusions to KI#1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **noted**.

**S3-232827 Resolution of editor’s note in solution 1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **merged**.

**S3-232868 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.892 v1.0.0  
 Source: Lenovo, AT&T, Broadcom, CableLabs, CATT, Charter, China Mobile, China Telecom, Deutsche Telekom, Intel, LG Electronics, Motorola Solutions MSI, NEC, Nokia, Nokia Shanghai Bell, Samsung, Verizon, Xiaomi*

**Decision:** The document was **noted**.

### 5.19 Study on Security Aspects of Ranging Based Services and Sidelink Positioning

**S3-232576 Update of a conclusion for KI #3**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233230**.

**S3-233230 Update of a conclusion for KI #3**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Qualcomm Incorporated*

(Replaces S3-232576)

**Decision:** The document was **approved**.

**S3-232577 Updates on the solution #15**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**S3-232578 An update of solution #12**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **approved**.

**S3-232579 Update on solution #9**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233228**.

**S3-233228 Update on solution #9**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Qualcomm Incorporated*

(Replaces S3-232579)

**Decision:** The document was **approved**.

**S3-232580 Conclusion of KI#5**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **merged**.

**S3-232649 Add conclusion for KI#3**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: ZTE Corporation*

**Decision:** The document was **merged**.

**S3-232692 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **merged**.

**S3-232693 update to solution#21**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**S3-232714 Update to the conclusion of KI#3 in TR 33.893**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **merged**.

**S3-232807 New solution for Discovery security material and SL session root key provisioning for Ranging/SL Positioning UE discovery**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-233229**.

**S3-233229 New solution for Discovery security material and SL session root key provisioning for Ranging/SL Positioning UE discovery**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Ericsson*

(Replaces S3-232807)

**Decision:** The document was **approved**.

**S3-232816 SL Positioning-Groupcast security**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Apple*

**Decision:** The document was **not treated**.

**S3-232826 Update to Solution #19**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: BUPT, OPPO*

**Decision:** The document was **noted**.

**S3-232866 Removal of Editor’s Notes of solution #28**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Lenovo*

**Decision:** The document was **not treated**.

**S3-232874 Resolve the Editor’s Notes in Solution #27**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: BUPT*

**Decision:** The document was **not treated**.

**S3-232943 Update Sol#21**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: OPPO*

**Decision:** The document was **not treated**.

**S3-232946 Update the Conclusion of KI#3**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: OPPO*

**Decision:** The document was **merged**.

**S3-232948 Conclusion on KI#5**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: OPPO*

**Decision:** The document was **merged**.

**S3-232949 pCR to TR33.893 Update Solution #22**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: CATT*

**Decision:** The document was **not treated**.

**S3-232951 33.893: Update Note 5 in Solution #15**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

**Decision:** The document was **not treated**.

**S3-232952 33.893: Resolve the Editor’s Note in Solution #16**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233394**.

**S3-233394 33.893: Resolve the Editor’s Note in Solution #16**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-232952)

**Decision:** The document was **approved**.

**S3-232953 33.893: Resolve the Editor’s Note in Solution #17**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233395**.

**S3-233395 33.893: Resolve the Editor’s Note in Solution #17**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-232953)

**Decision:** The document was **approved**.

**S3-232954 33.893: Conclusions on Privacy during Discovery for Key Issue #1**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233226**.

**S3-233226 33.893: Conclusions on Privacy during Discovery for Key Issue #1**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-232954)

**Decision:** The document was **approved**.

**S3-232955 33.893: Conclusions on Non-Trackability for Key Issue #1**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233227**.

**S3-233227 33.893: Conclusions on Non-Trackability for Key Issue #1**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-232955)

**Decision:** The document was **approved**.

**S3-232956 33.893: Conclusions on Client UE Authorization for Key Issue #2**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233225**.

**S3-233225 33.893: Conclusions on Client UE Authorization for Key Issue #2**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-232956)

**Decision:** The document was **approved**.

**S3-232957 33.893: Further Conclusions UE Role Authorization for Key Issue #2**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233396**.

**S3-233396 33.893: Further Conclusions UE Role Authorization for Key Issue #2**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-232957)

**Decision:** The document was **approved**.

**S3-232958 33.893: Further Conclusions on Key Issue #3**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

**Decision:** The document was **merged**.

**S3-232959 33.893: Further Conclusions on Key Issue #4**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233397**.

**S3-233397 33.893: Further Conclusions on Key Issue #4**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-232959)

**Decision:** The document was **approved**.

**S3-232960 33.893: Conclusions on Key Issue #5**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233231**.

**S3-233231 33.893: Conclusions on Key Issue #5**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Xiaomi Technology*

(Replaces S3-232960)

**Decision:** The document was **noted**.

**S3-233002 pCR to TR33.893 Update Solution #23**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: CATT*

**Decision:** The document was **not treated**.

**S3-233003 pCR to TR33.893 Update Solution #24**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: CATT*

**Decision:** The document was **not treated**.

**S3-233004 pCR to TR33.893 Conclusion of KI#5**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: CATT*

**Decision:** The document was **merged**.

**S3-233070 5.19 - Update to Solution 20**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Philips International B.V.*

**Decision:** The document was **not treated**.

**S3-233071 5.19 - Conclusion KI 5**

*Type: pCR For: Approval  
 33.893 v0.7.0  
 Source: Philips International B.V.*

**Decision:** The document was **merged**.

**S3-233210 Draft TR 33.893**

*Type: draft TR For: Approval  
 33.893 v0.8.0  
 Source: Xiaomi*

**Decision:** The document was **approved**.

**S3-233400 Cover sheet TR 33.893**

*Type: TS or TR cover For: Approval  
 33.893 v..  
 Source: Xiaomi*

**Decision:** The document was **approved**.

### 5.20 Study on Security and Privacy of AI/ML-based Services and Applications in 5G

**S3-232484 Solution of Untrusted AF Authorization for Policy Management**

*Type: pCR For: Approval  
 33.898 v0.6.0  
 Source: InterDigital Communications*

**Abstract:**

Solution of Untrusted AF Authorization for Policy Management

**Decision:** The document was **noted**.

**S3-232485 Solution of Trusted AF Authorization for Policy Management**

*Type: pCR For: Approval  
 33.898 v0.6.0  
 Source: InterDigital Communications*

**Abstract:**

Solution of Trusted AF Authorization for Policy Management

**Decision:** The document was **noted**.

**S3-232486 Solution Evaluation for AIML AF Authorization Policy Management**

*Type: pCR For: Approval  
 33.898 v0.6.0  
 Source: InterDigital Communications*

**Abstract:**

Solution Evaluation for AIML AF Authorization Policy Management

**Decision:** The document was **noted**.

**S3-232700 Add conclusion for key issue #1**

*Type: pCR For: Approval  
 33.898 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **approved**.

**S3-233109 Missed changes in pCR**

*Type: pCR For: Approval  
 33.898 v0.6.0  
 Source: OPPO*

**Decision:** The document was **approved**.

**S3-233111 clean up of TR 33.898**

*Type: pCR For: Approval  
 33.898 v0.6.0  
 Source: OPPO*

**Decision:** The document was **approved**.

**S3-233112 Presentation of TR 33.898**

*Type: TS or TR cover For: Agreement  
 33.898 v0.6.0  
 Source: OPPO*

**Decision:** The document was **approved**.

**S3-233365 Draft TR 33.898**

*Type: draft TR For: discussion  
 33.898 v0.7.0  
 Source: Huawei*

**Decision:** The document was **approved**.

### 5.21 Study on applicability of the Zero Trust Security principles in mobile networks

**S3-232427 Add Tenets to Tenet Evaluation Summary**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Johns Hopkins University APL*

**Abstract:**

Add Tenets to Tenet Evaluation Summary

**Decision:** The document was **withdrawn**.

**S3-232487 Add Tenets to Tenet Evaluation Summary**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Johns Hopkins University APL, Lenovo*

**Abstract:**

Add Tenets to Tenet Evaluation Summary

**Decision:** The document was **not treated**.

**S3-232776 Evaluation for tenet 4**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**S3-232777 Additions to evaluation of tenet 6**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233320**.

**S3-233320 Additions to evaluation of tenet 6**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Huawei, HiSilicon*

(Replaces S3-232777)

**Decision:** The document was **approved**.

**S3-232778 Additions to evaluation of tenet 7**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**S3-233085 Update to Tenet #7**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Lenovo, US National Security Agency, Telefonica*

**Decision:** The document was **not treated**.

**S3-233086 Update to Tenet #6**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Lenovo, US National Security Agency, Telefonica*

**Decision:** The document was **merged**.

**S3-233088 Update to Tenet #5**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Lenovo, US National Security Agency, Telefonica*

**Decision:** The document was **not treated**.

**S3-233089 New clause on actual tenets information**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Lenovo, US National Security Agency, Telefonica*

**Decision:** The document was **not treated**.

**S3-233090 Discussion on agreed threat scenarios and the need to collect data**

*Type: discussion For: Endorsement  
 33.894 v..  
 Source: Lenovo, US National Security Agency, Johns Hopkins University APL, Telefonica*

**Discussion:**

Ericsson didn’t agree with a designated network function in SBA.

**Decision:** The document was **noted**.

**S3-233091 Data collection for Security Monitoring**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Lenovo, Charter Communications, US National Security Agency, Telefonica, Rakuten Mobile, Center for Internet Security, Cablelabs, Johns Hopkins University APL*

**Discussion:**

Ericsson objected to this solution. There are propietary solutions already working.

**Decision:** The document was **revised to S3-233325**.

**S3-233325 Data collection for Security Monitoring**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Lenovo, Charter Communications, US National Security Agency, Telefonica, Rakuten Mobile, Center for Internet Security, Cablelabs, Johns Hopkins University APL*

(Replaces S3-233091)

**Decision:** The document was **noted**.

**S3-233092 Conclusion to KI#1**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Lenovo, US National Security Agency, Telefonica, Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: discussing conclusions at this point is too early. We object to this.

Ericsson also objected.

**Decision:** The document was **revised to S3-233326**.

**S3-233326 Conclusion to KI#1**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: Lenovo, US National Security Agency, Telefonica, Nokia, Nokia Shanghai Bell*

(Replaces S3-233092)

**Decision:** The document was **noted**.

**S3-233136 ZTA approach: NF to NF Communication Access Control via PDP and PEP**

*Type: pCR For: Approval  
 33.894 v0.6.0  
 Source: MITRE Corporation*

**Abstract:**

This approach implements the zero trust logical functions Policy Decision Point (PDP) and Policy Enforcement Point (PEP) to aid in zero trust access control functionality within the 5GC SBA.

**Decision:** The document was **not treated**.

**S3-233448 Draft TR 33.894**

*Type: draft TR For: Approval  
 33.894 v0.7.0  
 Source: Lenovo*

**Decision:** The document was **approved**.

### 5.22 Study of Security aspects on User Consent for 3GPP Services Phase 2

**S3-232701 Clean up for UC3S\_Ph2**

*Type: pCR For: Approval  
 33.896 v0.6.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **approved**.

**S3-233318 Draft TR 33.896**

*Type: draft TR For: Approval  
 33.896 v0.7.0  
 Source: Huawei*

**Decision:** The document was **approved**.

**S3-233319 Cover sheet TR 33.896**

*Type: TS or TR cover For: Approval  
 33.896 v..  
 Source: Huawei*

**Decision:** The document was **approved**.

### 5.23 Study on security enhancements for 5G multicast-broadcast services Phase 2

**S3-232565 A new solution for mitigating privacy attacks exploiting group paging with TMGI**

*Type: pCR For: Approval  
 33.883 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**S3-232566 Conclusion for Key Issue #2**

*Type: pCR For: Approval  
 33.883 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **merged**.

**S3-232567 An update on the evaluations of solution #1**

*Type: pCR For: Approval  
 33.883 v0.7.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**S3-232568 Conclusion for Key Issue #1**

*Type: pCR For: Approval  
 33.883 v0.7.0  
 Source: Qualcomm Incorporated*

**Discussion:**

Show of hands:

Q: Which option do you prefer as the conclusion of the MOCN issue?

Option A: S3-232568 --> Qualcomm, Ericsson

Option B: S3-232687 --> Huawei, Samsung, Nokia, Apple, OPPO,Philips,CATT

Option B as way forward.

**Decision:** The document was **noted**.

**S3-232674 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.883 v0.7.0  
 Source: Ericsson*

**Abstract:**

The contribution proposes conclusion for the KI#2.

**Decision:** The document was **revised to S3-233167**.

**S3-233167 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.883 v0.7.0  
 Source: Ericsson*

(Replaces S3-232674)

**Decision:** The document was **approved**.

**S3-232687 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.883 v0.7.0  
 Source: Huawei, HiSilicon, Samsung, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **approved**.

**S3-232688 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.883 v0.7.0  
 Source: Huawei, HiSilicon, Samsung, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **merged**.

**S3-233031 [MBS] Updates to solution#1**

*Type: pCR For: Approval  
 33.883 v0.7.0  
 Source: Samsung, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**S3-233032 [MBS] Evaluation for solution#3**

*Type: pCR For: Approval  
 33.883 v0.7.0  
 Source: Samsung, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**S3-233196 draft TR 33.883**

*Type: draft TR For: Approval  
 33.883 v0.8.0  
 Source: Huawei*

**Decision:** The document was **approved**.

**S3-233364 Cover sheet TR 33.883**

*Type: TS or TR cover For: Approval  
 33.883 v..  
 Source: Huawei*

**Decision:** The document was **approved**.

### 5.24 Study on enhanced Security Aspects of the 5G Service Based Architecture

### 5.25 Study on Security Aspects of Satellite Access

**S3-232651 Add a new solution for key issue 1**

*Type: pCR For: Approval  
 33.700-28 v0.4.0  
 Source: ZTE Corporation*

**Discussion:**

Xiaomi: not aligned with SA2.

**Decision:** The document was **noted**.

**S3-232652 Update conclusion for key issue 1**

*Type: pCR For: Approval  
 33.700-28 v0.4.0  
 Source: ZTE Corporation*

**Decision:** The document was **noted**.

**S3-232971 33.700-28: Update to Conclusion on Key Issue #1**

*Type: pCR For: Approval  
 33.700-28 v0.4.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233316**.

**S3-233316 33.700-28: Update to Conclusion on Key Issue #1**

*Type: pCR For: Approval  
 33.700-28 v0.4.0  
 Source: Xiaomi Technology*

(Replaces S3-232971)

**Decision:** The document was **approved**.

**S3-233317 Draft TR 33.700-28**

*Type: draft TR For: Approval  
 33.700-28 v0.5.0  
 Source: Xiaomi*

**Decision:** The document was **approved**.

**S3-233401 Cover sheet TR 33.700-28**

*Type: TS or TR cover For: Approval  
 33.700-28 v..  
 Source: Xiaomi*

**Decision:** The document was **approved**.

## 6 New Study/Work item proposals (only Rel-18 in scope)

**S3-232413 New WID on 5G Security Assurance Specification (SCAS) for the Unified Data Repository (UDR)**

*Type: WID new For: Approval  
 Source: BSI (DE)*

(Replaces S3-230680)

**Abstract:**

Security Assurance Specification (SCAS) for the Unified Data Repository (UDR)

**Discussion:**

Nokia: UDR-UDM interface is internal and transparent to SCAS, not visible from architecture perspective. We don’t need this WID.

Huawei: too much detail in the justification. It needs to be revised.

Orange: even if the interface UDR-UDM is internal it doesn’t mean that we cannot test it.

BSI: there are standalone implementations for UDR, we feel the need for testing it.

KPN: TR 33.845 considered UDR and UDM as a separate thing. This WID is needed.

Ericsson supported this WID.

KPN, Orange,Philips Keysight alsu supported this WID.

The Chair asked what could be done in this WID. BSI replied: transmission of keys between UDR and UDM can be tested, depending on the implementation. Orange commented that these kind of issues were part of the technical work of the WID and not of the discusssion for agreeing on the WID.

NTT-Docomo: plenty of test cases in other SCAS documents that are implementation dependent.We are only testing the security.

Nokia: let’s do first the anlaysis; is there anything to do here?

NTT-Docomo: we can do a single shot approval, WID together with a complete TS.

Huawei: this is going into Release 19 timeline, fix the dates.

The Chair commented that existing UDM test cases already address part of the UDR functionality, so it was unclear whether this could be included in the UDM WID or a separate UDR WID. It was agreed that test cases would be brought on the UDR and a decision would be made after discussions.

**Decision:** The document was **noted**.

**S3-232489 Revised WID: 5G ProSe Secondary Authentication**

*Type: WID revised For: Agreement  
 Source: InterDigital, Inc.*

**Discussion:**

Ericsson: we want to wait for the response from SA2 to our LS before making this change on the WID.

Huawei: no need to update, everything is supported already.

Interdigital: we only want to clarify that user plane is included.

Ericsson: SA2 is evaluating this procedure this week.

Interdigital: in that case we will not convert the living document into a CR. No need procedure is being introduced in this update.We want to avoid objections in the future becaue the UP is not mentioned in the Study Item.

KPN supported Interdigital.

MCC: it is OK to align the work done with the description in the SID.

The Chair clarified that no new procedure was being added here.

**Decision:** The document was **agreed**.

**S3-232519 Revised WID on Automated certificate management in SBA**

*Type: WID revised For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Huawei: concerned with key issue 9 to avoid committing to anything. We just want to reformulate.

**Decision:** The document was **revised to S3-233291**.

**S3-233291 Revised WID on Automated certificate management in SBA**

*Type: WID revised For: -  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-232519)

**Decision:** The document was **agreed**.

**S3-232558 Update of 5WWC WID**

*Type: WID revised For: Agreement  
 Source: Qualcomm Incorporated*

**Decision:** The document was **noted**.

**S3-232613 SID on Study on security for N32 and SEPP hosted scenarios**

*Type: SID new For: (not specified)  
 Source: Nokia, Nokia Shanghai Bell*

**Discussion:**

Ericsson: it cannot be done in Rel-18.

The Chair commented that a WID or SID iwas not practical for this issue.

Orange: where is this coming from? Requirements from SA1?

Nokia: some topics come from SA1 and SA2.

The Chair said that objectives needed to be very clear and coordination between 3GPP groups and GSMA was needed. SA3 could take the lead and have a call with GSMA.

Huawei: we endorsed something but we agree now to work on something without a proper approved study.

**Decision:** The document was **noted**.

**S3-232665 new WID on eNS3**

*Type: WID new For: Agreement  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, ZTE*

**Decision:** The document was **not treated**.

**S3-232697 New WID on security enhancements for MBS Phase 2**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-233292**.

**S3-233292 New WID on security enhancements for MBS Phase 2**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon*

(Replaces S3-232697)

**Decision:** The document was **agreed**.

**S3-232702 New WID for UC3S\_Ph2**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon, China Mobile, China Telecom, China Unicom, CAICT*

**Decision:** The document was **agreed**.

**S3-232703 User Consent for Roaming in eNA**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1621 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon*

**Discussion:**

Qualcomm: use the eNA WID for this.

Huawei: this is the outcome of the study.

The Chair proposed to revise the WID.

Nokia: delete the second paragraph or make it a note.

**Decision:** The document was **revised to S3-233293**.

**S3-233293 User Consent for Roaming in eNA**

*Type: CR For: Agreement  
 33.501 v18.1.0 CR-1621 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-232703)

**Decision:** The document was **agreed**.

**S3-232726 New WID for security of SEAL Data Delivery enabler**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon, China Mobile, Samsung*

**Discussion:**

It was ckarified that this was a one shot WID. It would be finished with the following CR.

**Decision:** The document was **revised to S3-233295**.

**S3-233295 New WID for security of SEAL Data Delivery enabler**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon, China Mobile, Samsung*

(Replaces S3-232726)

**Decision:** The document was **agreed**.

**S3-232727 Add security aspect of SEAL Data Delivery enabler**

*Type: CR For: Agreement  
 33.434 v17.3.0 CR-0015 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon, China Mobile, Samsung*

**Decision:** The document was **revised to S3-233294**.

**S3-233294 Add security aspect of SEAL Data Delivery enabler**

*Type: CR For: Agreement  
 33.434 v17.3.0 CR-0015 rev 1 Cat: B (Rel-18)  
  
 Source: Huawei, HiSilicon, China Mobile, Samsung*

(Replaces S3-232727)

**Decision:** The document was **agreed**.

**S3-232869 New WID to enable URSP rules to securely identify Applications (USIA)**

*Type: WID new For: Approval  
 Source: Lenovo, AT&T, Broadcom, CableLabs, CATT, Charter, China Mobile, China Telecom, Deutsche Telekom, Intel, LG Electronics, Motorola Solutions MSI, NEC, Nokia, Nokia Shanghai Bell, Samsung, Verizon, Xiaomi*

**Decision:** The document was **noted**.

**S3-232961 Revised WID on Security Aspects of Ranging Based Services and Sidelink Positioning**

*Type: WID revised For: Approval  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-233296**.

**S3-233296 Revised WID on Security Aspects of Ranging Based Services and Sidelink Positioning**

*Type: WID revised For: Approval  
 Source: Xiaomi Technology*

(Replaces S3-232961)

**Discussion:**

Adding the broadcast.

**Decision:** The document was **agreed**.

**S3-233058 New WID on 3GPP profiles for cryptographic algorithms and security protocols**

*Type: WID new For: Agreement  
 Source: Ericsson*

**Discussion:**

DT: support.

Qualcomm: too late for Rel-18, postpone this until Rel-19. We don’t agree with some issues in the objectives and justification but we can discuss it offline for the next meeting. We agree on the need for this WID.

Huawei: in favor of this WID as well, but inline with Qualcomm's comments.

Ericsson: can we bring this in Gotemburg?

SA3 Chair: bring this as a discussion paper or slides to the Rel-19 workshop so everyone is aware.

Apple supported this WID.

**Decision:** The document was **noted**.

**S3-233431 Exception sheet for security enhancements for MBS Phase 2**

*Type: WI exception request For: Agreement  
 Source: Huawei*

**Decision:** The document was **agreed**.

## 7 CVD and research

**S3-232313 Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks**

*Type: LS in For: Information  
 Original outgoing LS: C1-232756, to GSMA CVD, cc SA3, RAN2  
 Source: C1-232756*

**Decision:** The document was **noted**.

**S3-232345 LS to 3GPP Bidding-Down Attacks in 5G and 4G v5**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: GSMA*

**Discussion:**

Ericsson: not clear in what use cases they are sending the information unprotected.

Qualcomm liked CT1's response and was fine to refer to them.

**Decision:** The document was **replied to in S3-233321**.

**S3-232561 Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks**

*Type: LS out For: Approval  
 to GSMA CVD, cc CT1, RAN2  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-233321**.

**S3-233321 Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks**

*Type: LS out For: Approval  
 to GSMA CVD, cc CT1, RAN2  
 Source: Qualcomm Incorporated*

(Replaces S3-232561)

**Decision:** The document was **approved**.

**S3-232833 Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks**

*Type: LS out For: Approval  
 to GSMA CVD, cc CT1, RAN2  
 Source: Ericsson*

**Decision:** The document was **noted**.

## 8 Any Other Business

Alex (GSMA) commented on the ETSI Security Week happening between 16 and 19 October, which had some topics of interest in SA3 and that inputs were welcome.

-5G in the wild track

- 6G track

Markus (Ericsson): proposed to avoid lagging a release behind with proposing SCAS WIDs for the current release. The Chair replied that this was not practical to work simultaneously on the WID and the testing but it was under discussion as part of the work with the European Certification (e.g. make it release independent).

Qualcomm asked not to have any Study agenda items for the next meeting. MCC replied that some comments may come from Edithelp and some editorial CRs may be needed. It was agreed that these CRs could be submitted since they were easy to agree on.

**S3-232305 SA3 meeting calendar**

*Type: other For: (not specified)  
 Source: SA WG3 Chair*

**Decision:** The document was **revised to S3-233138**.

**S3-233138 SA3 meeting calendar**

*Type: other For: -  
 Source: SA WG3 Chair*

(Replaces S3-232305)

**Discussion:**

NTT-Docomo: move away from the dates with other groups we coordinate with.

**Decision:** The document was **noted**.

**S3-232357 SA3 Rel-19 Planning**

*Type: discussion For: (not specified)  
 Source: SA WG3 CHair*

**Discussion:**

The Chair clarified that the workshop expects company inputs rather than SA3's. No work items will be approved in the workshop, the format is slides.

The Chair presented the organization based on time management scheme, as proposed by SA plenary. He commented that this kind of management was very cumbersome. On the other hand, drafting sessions could be used instead.

NTT-Docomo asked to have drafting sessions on Thursday mornings, and have a separate track for SCAS topics.

Huawei: overdo SCAS? Not so critical. Studies are becoming overwhelming, though. The Chair commented that studies for Rel-18 should be closed whatever their status.

Nokia supported having the parallel stream for SCAS.

Qualcomm: e-meeting for SCAS and rubber stamping in SA3 like we do with SA3-LI. Three parallel tracks create logistical and resource issues.

Ericsson: create 15 alocations and associate a WID for each? Monday evenings for maintenance sessions. Is there a limited number of WIDs we can agree on?

Interdigital: limit the number of contributions.

Three maintenance sessions + three drafting sessions --: The Chair will present this in next SA.

**Decision:** The document was **noted**.

## 9 Closing of the meeting

The Chair thanked the attendees for the hard work, MCC and the vice Chairs. After this the meeting was closed.

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-232300 | Agenda | SA WG3 Chair | revised |  | S3-232796 |
| S3-232301 | Report from SA3#110adHoc-e | MCC | approved |  |  |
| S3-232302 | Report from SA3#110 | MCC | approved |  |  |
| S3-232303 | Process for SA3#111 | SA WG3 Chair | noted |  |  |
| S3-232304 | Detail agenda planning for SA3#111 | SA WG3 Chair | revised |  | S3-233214 |
| S3-232305 | SA3 meeting calendar | SA WG3 Chair | revised |  | S3-233138 |
| S3-232306 | Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC | Telekom Deutschland GmbH | withdrawn |  |  |
| S3-232307 | Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC | Telekom Deutschland GmbH | revised |  | S3-232808 |
| S3-232308 | Reply LS on UE event reporting over a user plane connection to LCS client or AF | C1-231128 | noted |  |  |
| S3-232309 | LS on LPP message and supplementary service event report over a user plane connection between UE and LMF | C1-231129 | noted |  |  |
| S3-232310 | Reply LS on clarification of coding of hexadecimal digits in SUCI NAI | C1-231170 | noted |  |  |
| S3-232311 | Reply LS on 3GPP work on Energy Efficiency | C1-232650 | noted |  |  |
| S3-232312 | LS on Handling of SOR counter and the UE parameter update counter if stored in NVM | C1-232696 | postponed |  |  |
| S3-232313 | Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks | C1-232756 | noted |  |  |
| S3-232314 | Reply LS on 3GPP work on Energy Efficiency | C3-231470 | noted |  |  |
| S3-232315 | Reply LS on UE event reporting over a user plane connection to LCS client or AF | C3-231717 | noted |  |  |
| S3-232316 | LS on Authentication Result Removal | C4-224418 | postponed |  |  |
| S3-232317 | LS on Authorization of NF service consumers for data access via DCCF | C4-225161 | replied to |  |  |
| S3-232318 | Reply-LS on Research highlighting potential negated OAuth policy | C4-230487 | noted |  |  |
| S3-232319 | LS Reply on PRINS middle boxes | C4-230547 | noted |  |  |
| S3-232320 | Reply LS on Identifier availability for Lawful Interception during Inter-PLMN handover | C4-230628 | noted |  |  |
| S3-232321 | Reply-LS on Research highlighting potential need for granular level checks using "Additional scope" under the OAuth2.0 Token Access | C4-230692 | noted |  |  |
| S3-232322 | LS on Removal of the uavAuthenticated IE from Create SM Context Request | C4-230790 | postponed |  |  |
| S3-232323 | LS on clarification of coding of hexadecimal digits in SUCI NAI | C4-231395 | noted |  |  |
| S3-232324 | LS on clarification of coding of hexadecimal digits in SUCI NAI | C6-220715 | noted |  |  |
| S3-232325 | LS to SA3 on security for L2 UE-to-UE relay | R2-2304559 | replied to |  |  |
| S3-232326 | Reply LS on 5G capabilities exposure for factories of the future – identified gaps (5G-ACIA-LS-2022-005 / S2-2302175) | S2-2303304 | noted |  |  |
| S3-232327 | Reply LS on Security architecture for 5G multicast/broadcast services | S2-2303310 | replied to |  |  |
| S3-232328 | Reply LS to Reply LS to LS on SL positioning groupcast and broadcast | S2-2305726 | noted |  |  |
| S3-232329 | LS on security aspects for Ranging/Sidelink Positioning | S2-2305727 | replied to |  |  |
| S3-232330 | Reply LS to LS to SA2 on Sidelink positioning procedure | S2-2305735 | noted |  |  |
| S3-232331 | Reply to LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service | S2-2305883 | noted |  |  |
| S3-232332 | DNS over TLS (DoT) and DNS over HTTPS (DoH) | S2-2306210 | postponed |  |  |
| S3-232333 | Reply LS on security architecture for 5G multicast–broadcast services | S4-230346 | replied to |  |  |
| S3-232334 | LS on 3GPP work on Energy Efficiency | S5-232903 | noted |  |  |
| S3-232335 | Reply LS on secured and trusted access to the serving PLMN OAM server by a MBSR | S5-233546 | noted |  |  |
| S3-232336 | LS on user consent for UE location sharing | S6-230351 | postponed |  |  |
| S3-232337 | LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service | S6-230945 | replied to |  |  |
| S3-232338 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | S6-231061 | postponed |  |  |
| S3-232339 | LS reply to TSG SA on LS 5G-ACIA-LS-2022-005 on 5G capabilities exposure for factories of the future – identified gaps from 5G ACIA | S6-231068 | noted |  |  |
| S3-232340 | LS on Clarification on KMS provisioning | S6-231423 | replied to |  |  |
| S3-232341 | LS on resolving the target KMS URI for a migrated MC service user | S6-231552 | postponed |  |  |
| S3-232342 | LS reply on the use of a non-network defined identifier for UE identification | S6-231604 | noted |  |  |
| S3-232343 | Reply LS on 5G capabilities exposure for factories of the future – identified gaps | SP-230384 | noted |  |  |
| S3-232344 | LS to 3GPP on GSMA requirements for intermediaries in the roaming ecosystem | GSMA | postponed |  |  |
| S3-232345 | LS to 3GPP Bidding-Down Attacks in 5G and 4G v5 | GSMA | replied to |  |  |
| S3-232346 | LS to 3GPP regarding SCTP-AUTH and DTLS | IETF Transport Area Working Group | replied to |  |  |
| S3-232347 | LS to SA3-LI on Volte roaming lawful interception - limitation to provide caller identify if caller activates OIR | GSMA | noted |  |  |
| S3-232348 | LS to inform about the Post Quantum Telco Network Impact Assessment Whitepaper Publication | GSMA | noted |  |  |
| S3-232349 | Reply LS on Mapping of F1-C IP addresses in the IAB inter-CU topology adaptation and backhaul RLF recovery procedures | R3-232166 | noted |  |  |
| S3-232350 | Reply LS on lawful interception EPS fallback for 5G inbound roamer | S3i230149 | noted |  |  |
| S3-232351 | LS on addition of filler IEI for User-Data Header | s3i230317 | noted |  |  |
| S3-232352 | An Invitation to the SA4 Gender Diversity Committee Meetings | S4-230431 | noted |  |  |
| S3-232353 | Specification of the 256-bit air interface algorithms | ETSI SAGE | replied to |  |  |
| S3-232354 | Reply LS to 3GPP SA2 on analytics exchange between different 5G PLMNs | GSMA | noted |  |  |
| S3-232355 | Reply LS to 3GPP SA2 on UE specific data and analytics exchange between HPLMN and VPLMN | GSMA | noted |  |  |
| S3-232356 | Report to SA3 from SA#99 | SA WG3 Chair | noted |  |  |
| S3-232357 | SA3 Rel-19 Planning | SA WG3 CHair | noted |  |  |
| S3-232402 | Remove EN on RBAC | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232403 | HTTP methods for Webservers | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232404 | no directory listings | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232405 | traffic separation | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232406 | Exceptions for Client Authentication | Nokia, Nokia Shanghai Bell | merged |  | S3-233201 |
| S3-232407 | Update to Solution #11 in ID Privacy | Johns Hopkins University APL | withdrawn |  |  |
| S3-232408 | Evaluation of Solution #16, ACME, for Automated Certificate Management in SBA | Cisco Systems, Google, Telefonica, Charter Communications, AT&T, CableLabs | revised |  | S3-233187 |
| S3-232409 | New SCAS test on trust anchoring | BSI (DE) | revised |  | S3-232419 |
| S3-232410 | Interface Robustness | Nokia, Nokia Shanghai Bell | revised |  | S3-233193 |
| S3-232411 | Security Event Logging | Nokia, Nokia Shanghai Bell | revised |  | S3-233194 |
| S3-232412 | Privileged Users | Nokia, Nokia Shanghai Bell | revised |  | S3-233195 |
| S3-232413 | New WID on 5G Security Assurance Specification (SCAS) for the Unified Data Repository (UDR) | BSI (DE) | noted | S3-230680 |  |
| S3-232414 | Scope definition for draft TS 33.528 | BSI (DE) | approved |  |  |
| S3-232415 | Introduction for draft TS 33.528 chapter 4 | BSI (DE) | approved |  |  |
| S3-232416 | PCF-specific security requirements and related test cases for draft TS 33.528 | BSI (DE) | revised |  | S3-233170 |
| S3-232417 | U2N relay direct link setup failure due to RSC mismatch or integrity failure | Ericsson | not pursued |  |  |
| S3-232418 | Living document for eNPN\_Ph2 (Security aspects of enhanced support of Non-Public Networks phase 2) | Ericsson | revised |  | S3-233248 |
| S3-232419 | New SCAS test on trust anchoring | Federal Office for Information Security (BSI) | revised | S3-232409 | S3-233244 |
| S3-232420 | Discussion on Selective SCG | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232421 | Introduction of Selective SCG Security Mechanisms and Procedures | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232422 | LS on Security Solution for Selective SCG | Nokia, Nokia Shanghai Bell | revised |  | S3-233200 |
| S3-232423 | Living document for ACM\_SBA (Automated Certificate Management in SBA) | Nokia, Nokia Shanghai Bell | revised |  | S3-233269 |
| S3-232424 | Proposed new Test Cases on SCAS for VNP | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232425 | Address EN in Solution #16, ACME, for Automated Certificate Management in SBA | Cisco Systems, CableLabs, Google | approved |  |  |
| S3-232426 | Add Evaluation to Solution #12 in ID Privacy | Johns Hopkins University APL, InterDigital | not treated |  |  |
| S3-232427 | Add Tenets to Tenet Evaluation Summary | Johns Hopkins University APL | withdrawn |  |  |
| S3-232428 | TCG progress - report from TCG rapporteur | InterDigital Communications | noted |  |  |
| S3-232429 | Evaluation of Solution #11 in ID Privacy | Peraton Labs | not treated |  |  |
| S3-232430 | LS to 3GPP SA3 on ETSI MEC discussion on possible new requirements for AKMA framework | ETSI MEC | replied to |  |  |
| S3-232431 | Living doc to SCAS UPF | Keysight Technologies UK Ltd | revised |  | S3-233391 |
| S3-232432 | Living doc for SCAS gNB | Keysight Technologies UK Ltd | revised |  | S3-233339 |
| S3-232433 | Summary table for changes in robustness testing | Keysight Technologies UK Ltd | noted |  |  |
| S3-232434 | Robustness interfaces and protocols defined for gNodeB | Keysight Technologies UK Ltd | revised |  | S3-233340 |
| S3-232435 | Robustness interfaces and protocols defined for UPF | Keysight Technologies UK Ltd | revised |  | S3-233411 |
| S3-232436 | Robustness interfaces and protocols defined for MnF | Keysight Technologies UK Ltd | noted |  |  |
| S3-232437 | Robustness interfaces and protocols defined for PCF | Keysight Technologies UK Ltd | revised |  | S3-233424 |
| S3-232438 | Robustness interfaces and protocols defined for gNB-CU-CP | Keysight Technologies UK Ltd | revised |  | S3-233330 |
| S3-232439 | Robustness interfaces and protocols defined for AAnF | Keysight Technologies UK Ltd | withdrawn |  |  |
| S3-232440 | Robustness interfaces and protocols defined for AAnF | Keysight Technologies UK Ltd | revised |  | S3-233412 |
| S3-232441 | Robustness interfaces and protocols defined for AMF | Keysight Technologies UK Ltd | revised |  | S3-233413 |
| S3-232442 | Robustness interfaces and protocols defined for AUSF | Keysight Technologies UK Ltd | revised |  | S3-233414 |
| S3-232443 | Robustness interfaces and protocols defined for N3IWF | Keysight Technologies UK Ltd | revised |  | S3-233415 |
| S3-232444 | Robustness interfaces and protocols defined for NEF | Keysight Technologies UK Ltd | revised |  | S3-233416 |
| S3-232445 | Robustness interfaces and protocols defined for NRF | Keysight Technologies UK Ltd | revised |  | S3-233417 |
| S3-232446 | Discussion on security for selective SCG activation | vivo | noted |  |  |
| S3-232447 | Robustness interfaces and protocols defined for NWDAF | Keysight Technologies UK Ltd | revised |  | S3-233418 |
| S3-232448 | Robustness interfaces and protocols defined for SCP | Keysight Technologies UK Ltd | revised |  | S3-233419 |
| S3-232449 | Robustness interfaces and protocols defined for SEPP | Keysight Technologies UK Ltd | revised |  | S3-233420 |
| S3-232450 | Robustness interfaces and protocols defined for SMF | Keysight Technologies UK Ltd | revised |  | S3-233421 |
| S3-232451 | Robustness interfaces and protocols defined for UDM | Keysight Technologies UK Ltd | revised |  | S3-233422 |
| S3-232452 | Clarification of synchronization failure handling | BSI (DE) | revised |  | S3-232476 |
| S3-232453 | Discussion paper on Effects of black-box data poisoning on RAN AI/ML | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232454 | Clarification of RES\* verification failure handling | Federal Office for Information Security (BSI) | revised |  | S3-233130 |
| S3-232455 | Key issue updates for robustness of the RAN AI/ML framework against data poisoning attacks | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232456 | Clarification of Replay Protection of NAS signalling messages | Federal Office for Information Security (BSI) | revised |  | S3-233134 |
| S3-232457 | Solution for Key Issue #2 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232458 | Clarification of NAS integrity algorithm selection and use | BSI (DE) | revised |  | S3-232504 |
| S3-232459 | Clarification of invalid or unacceptable UE security capabilities handling | BSI (DE) | revised |  | S3-232477 |
| S3-232460 | Updates for Key Issue #1 User Privacy of the RAN AI/ML framework | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232461 | Clarification of NSSAA revocation | Federal Office for Information Security (BSI) | revised |  | S3-233204 |
| S3-232462 | Solution for Key Issue #1 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232463 | Clarification of test applicability | BSI (DE) | revised |  | S3-232505 |
| S3-232464 | Correction of Tester Instructions in Expected Results | BSI (DE) | revised |  | S3-232507 |
| S3-232465 | Correction of format of evidence | BSI (DE) | revised |  | S3-232506 |
| S3-232466 | Clarification of whether tester triggers an event or NF behaviour is observed in an Execution Step | BSI (DE) | revised |  | S3-233345 |
| S3-232467 | New SCAS test on valid UE security capability encoding while AS security establishment | Federal Office for Information Security (BSI) | revised |  | S3-233205 |
| S3-232468 | Threat reference for incorrectly encoded UE 5G security capabilities on the AMF NG interface | BSI (DE) | withdrawn |  |  |
| S3-232469 | Threat reference for incorrectly encoded UE 5G security capabilities on the AMF NG interface | Federal Office for Information Security (BSI) | revised |  | S3-233206 |
| S3-232470 | Discussion on specification AMF SCAS test for incorrectly encoding security capabilities | BSI (DE) | noted |  |  |
| S3-232471 | Clarification of hashing | Federal Office for Information Security (BSI) | revised |  | S3-233346 |
| S3-232472 | Clarification of privilege escalation methods to check for | BSI (DE) | revised |  | S3-232474 |
| S3-232473 | Clarification of privilege verification | BSI (DE) | revised |  | S3-232475 |
| S3-232474 | Clarification of privilege escalation methods to check for | Federal Office for Information Security (BSI) | revised | S3-232472 | S3-233207 |
| S3-232475 | Clarification of privilege verification | Federal Office for Information Security (BSI) | revised | S3-232473 | S3-233347 |
| S3-232476 | Clarification of synchronization failure handling | BSI (DE) | revised | S3-232452 | S3-233208 |
| S3-232477 | Clarification of invalid or unacceptable UE security capabilities handling | BSI (DE) | revised | S3-232459 | S3-232509 |
| S3-232478 | Adding evaluation for Sol#26 | InterDigital Communications | revised |  | S3-233283 |
| S3-232479 | EEC Authorization by V-ECS in VPLMN | InterDigital Communications | not treated |  |  |
| S3-232480 | A solution for EEC IP address verification | InterDigital Communications | revised |  | S3-233366 |
| S3-232481 | Updates for Solution #26 | InterDigital Communications | merged |  | S3-233283 |
| S3-232482 | Additional Scenario for Solution #26 – Scenario 2 | InterDigital Communications | merged |  | S3-233283 |
| S3-232483 | Additional Scenario for Solution #26 – Scenario 3 | InterDigital Communications | merged |  | S3-233283 |
| S3-232484 | Solution of Untrusted AF Authorization for Policy Management | InterDigital Communications | noted |  |  |
| S3-232485 | Solution of Trusted AF Authorization for Policy Management | InterDigital Communications | noted |  |  |
| S3-232486 | Solution Evaluation for AIML AF Authorization Policy Management | InterDigital Communications | noted |  |  |
| S3-232487 | Add Tenets to Tenet Evaluation Summary | Johns Hopkins University APL, Lenovo | not treated |  |  |
| S3-232488 | Living document to TS 33.503 for Prose Secondary Authentication | InterDigital, Inc. | revised |  | S3-233198 |
| S3-232489 | Revised WID: 5G ProSe Secondary Authentication | InterDigital, Inc. | agreed |  |  |
| S3-232490 | Naming alignment for 5GPRUK and deleting redundant EN | InterDigital, Inc. | revised |  | S3-233184 |
| S3-232491 | HNTRA procedure for SoR case | Nokia, Nokia Shanghai Bell | merged |  | S3-233224 |
| S3-232492 | HNTRA procedure for UPU case | Nokia, Nokia Shanghai Bell | merged |  | S3-233224 |
| S3-232493 | HNTRA procedure alignment | Nokia, Nokia Shanghai Bell | revised |  | S3-233287 |
| S3-232494 | KI3 conclusion update | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232495 | KI4 conclusion | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232496 | updating the existing solution mapping | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232497 | Presentation of Report to TSG:  TR 33.887, Version 0.7.0 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232498 | Revised WID on Security aspect of 5WWC | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232499 | TNGF and N3IWF redirection information KI3 solution | Nokia, Nokia Shanghai Bell | merged |  | S3-233272 |
| S3-232500 | PCR to 33.870 Changes to Solution #2 | InterDigital Communications | not treated |  |  |
| S3-232501 | PCR to 33.870 - Solution #2 Evaluation | InterDigital Communications | not treated |  |  |
| S3-232502 | Update to conclusion on KI#2 | China Telecommunications | revised |  | S3-233250 |
| S3-232503 | Update to conclusion on KI#3 | China Telecommunications | merged |  | S3-233251 |
| S3-232504 | Clarification of NAS integrity algorithm selection and use | Federal Office for Information Security (BSI) | revised | S3-232458 | S3-233135 |
| S3-232505 | Clarification of test applicability | Federal Office for Information Security (BSI) | revised | S3-232463 | S3-233348 |
| S3-232506 | Correction of format of evidence | Federal Office for Information Security (BSI) | revised | S3-232465 | S3-233333 |
| S3-232507 | Correction of Tester Instructions in Expected Results | BSI (DE) | revised | S3-232464 | S3-232508 |
| S3-232508 | Correction of Tester Instructions in Expected Results | Federal Office for Information Security (BSI) | revised | S3-232507 | S3-233334 |
| S3-232509 | Clarification of invalid or unacceptable UE security capabilities handling | Federal Office for Information Security (BSI) | revised | S3-232477 | S3-233133 |
| S3-232510 | A discussion paper on conclusions for KI #1: Privacy aspects of variable length user identifiers | InterDigital Communications, CableLabs, Convida Wireless, Ericsson, Nokia, Philips, Telefonica, US National Security Agency, Verizon Wireless | revised |  | S3-233083 |
| S3-232511 | Authorization of selection of participant NWDAF instances in the Federated Learning group | China Telecommunications | merged |  | S3-233267 |
| S3-232512 | TR 33.876 cover for Information and Approval | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232513 | Update of IETF reference in Solution 10 and removal of EN in KI7 conclusion | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232514 | Editorials in clause 3 of TR 33.876 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232515 | Conclusion of ACM\_SBA KI#6 | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | approved |  |  |
| S3-232516 | pCR to ACM\_SBA living doc\_Validation of usage of X.509 certificate | Nokia, Nokia Shanghai Bell | revised |  | S3-233192 |
| S3-232517 | pCR to ACM\_SBA living doc\_Set up of initial trust | Nokia, Nokia Shanghai Bell | revised |  | S3-233191 |
| S3-232518 | pCR to ACM\_SBA living doc\_Certificate enrolment and renewal for 5GC NFs | Nokia, Nokia Shanghai Bell | revised |  | S3-233190 |
| S3-232519 | Revised WID on Automated certificate management in SBA | Nokia, Nokia Shanghai Bell | revised |  | S3-233291 |
| S3-232520 | Discussion paper of UPU implementation gaps | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232521 | Enhancement in UPU procedure to protect UPU header-All 3 solutions | Nokia, Nokia Shanghai Bell | merged |  | S3-233329 |
| S3-232522 | Enhancement in UPU procedure to protect UPU header-All 3 solutions | Nokia, Nokia Shanghai Bell | merged |  | S3-233388 |
| S3-232523 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell, | revised |  | S3-233146 |
| S3-232524 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell, | revised |  | S3-233147 |
| S3-232525 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell | revised |  | S3-233148 |
| S3-232526 | TNGF address handling correction | Nokia, Nokia Shanghai Bell | merged |  | S3-233150 |
| S3-232527 | TNGF address handling correction | Nokia, Nokia Shanghai Bell | merged |  | S3-233151 |
| S3-232528 | Handling of SOR counter and the UE parameter update counter if stored in NVM | Nokia, Nokia Shanghai Bell | revised |  | S3-233152 |
| S3-232529 | ME Change issue correction | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-232530 | ME Change issue correction Solution 2 | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-232531 | AKMA Service disable or withdrawn | Nokia, Nokia Shanghai Bell | withdrawn |  |  |
| S3-232532 | Resolution of ENs of KI#2 conclusion in eNA\_SEC\_Ph3 | Nokia, Nokia Shanghai Bell | merged |  | S3-233250 |
| S3-232533 | Resolution of ENs of KI#1 conclusion in eNA\_SEC\_Ph3 | Nokia, Nokia Shanghai Bell | revised |  | S3-233249 |
| S3-232534 | Conclusion of eNA\_SEC\_Ph3 KI#4 | Nokia, Nokia Shanghai Bell, Lenovo | noted |  |  |
| S3-232535 | pCR on Living draft CR WID eNA\_Ph3\_AIML model sharing | Nokia, Nokia Shanghai Bell | merged |  | S3-233268 |
| S3-232536 | pCR on Living draft CR WID eNA\_Ph3\_FL\_Authorization | Nokia, Nokia Shanghai Bell | revised |  | S3-233267 |
| S3-232537 | LS on Authorization of NF service consumers for data access via DCCF | Nokia, Nokia Shanghai Bell | revised |  | S3-233143 |
| S3-232538 | Introducing split gNBs into TR 33.926 | Qualcomm Incorporated | agreed | S3-231615 |  |
| S3-232539 | Overview of some split gNB SCAS papers | Qualcomm Incoporated | noted |  |  |
| S3-232540 | EditHelp changes for TS 33.523 | Qualcomm Incorporated | noted |  |  |
| S3-232541 | Removal of release specific aspects from TS 33.523 | Qualcomm Incorporated | revised |  | S3-233331 |
| S3-232542 | Corrections to TS 33.523 | Qualcomm Incorporated | approved |  |  |
| S3-232543 | Coversheet for TS 33.523 | Qualcomm Incorporated | approved |  |  |
| S3-232544 | Correcting some references in TS 33.511 | Qualcomm Incorporated | agreed |  |  |
| S3-232545 | Correcting some references in TS 33.511 | Qualcomm Incorporated | revised |  | S3-233117 |
| S3-232546 | Correcting some references in TS 33.926 | Qualcomm Incorporated | revised |  | S3-233129 |
| S3-232547 | Correcting some references in TS 33.926 | Qualcomm Incorporated | revised |  | S3-233118 |
| S3-232548 | Discussion on issue with UPU MAC calculation | Qualcomm Incorporated | noted |  |  |
| S3-232549 | Clarification to the UPU procedures | Qualcomm Incorporated | revised | S3-230804 | S3-233329 |
| S3-232550 | Clarification to the UPU procedures | Qualcomm Incorporated | revised |  | S3-233388 |
| S3-232551 | Protection of UPU header | Qualcomm Incorporated | not pursued |  |  |
| S3-232552 | Living document for UAS draft CR | Qualcomm Incorporated | revised |  | S3-233425 |
| S3-232553 | Proposed text for A2X security parts of UAS living document | Qualcomm Incorporated | revised |  | S3-233282 |
| S3-232554 | Proposed text for the Broadcast Remote ID part of UAS living document | Qualcomm Incorporated | merged |  | S3-233285 |
| S3-232555 | Proposed text for the Direct Detect and Avoid part of UAS living document | Qualcomm Incorporated | revised |  | S3-233286 |
| S3-232556 | Proposed text for the Direct C2 Communication part of UAS living document | Qualcomm Incorporated | revised |  | S3-233289 |
| S3-232557 | Proposed conclusion for KI#4 | Qualcomm Incorporated, Cablelabs, Broadcom | noted |  |  |
| S3-232558 | Update of 5WWC WID | Qualcomm Incorporated | noted |  |  |
| S3-232559 | Updating the SoR/UPU counter text in HONTRA draft CR | Qualcomm Incorporated | revised |  | S3-233224 |
| S3-232560 | Resolving the AKMA EN in the HONTRA draft CR | Qualcomm Incorporated | revised |  | S3-233219 |
| S3-232561 | Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks | Qualcomm Incorporated | revised |  | S3-233321 |
| S3-232562 | Thoughts on changing the salt in AES-GCM and AES-GMAC in IMS | Qualcomm Incorporated | noted |  |  |
| S3-232563 | Proposed method for deriving the keys for selective SCG activation | Qualcomm Incorporated | noted |  |  |
| S3-232564 | IAB inter-CU topology adaptation and backhaul RLF recovery procedures | Qualcomm Incorporated | not pursued |  |  |
| S3-232565 | A new solution for mitigating privacy attacks exploiting group paging with TMGI | Qualcomm Incorporated | not treated |  |  |
| S3-232566 | Conclusion for Key Issue #2 | Qualcomm Incorporated | merged |  | S3-233167 |
| S3-232567 | An update on the evaluations of solution #1 | Qualcomm Incorporated | not treated |  |  |
| S3-232568 | Conclusion for Key Issue #1 | Qualcomm Incorporated | noted |  |  |
| S3-232569 | Adding security procedure for U2U relay discovery with model A in ProSe draft CR | Qualcomm Incorporated | revised |  | S3-233177 |
| S3-232570 | Adding security procedure for U2U relay discovery with model B in ProSe draft CR | Qualcomm Incorporated | merged |  | S3-233178 |
| S3-232571 | Updates on the solution #23 | Qualcomm Incorporated | not treated |  |  |
| S3-232572 | Updates on the solution #24 | Qualcomm Incorporated | not treated |  |  |
| S3-232573 | Conclusion of KI#1 | Qualcomm Incorporated | not treated |  |  |
| S3-232574 | Conclusion of KI#2 | Qualcomm Incorporated | not treated |  |  |
| S3-232575 | Conclusion of KI#5 | Qualcomm Incorporated | not treated |  |  |
| S3-232576 | Update of a conclusion for KI #3 | Qualcomm Incorporated | revised |  | S3-233230 |
| S3-232577 | Updates on the solution #15 | Qualcomm Incorporated | not treated |  |  |
| S3-232578 | An update of solution #12 | Qualcomm Incorporated | approved |  |  |
| S3-232579 | Update on solution #9 | Qualcomm Incorporated | revised |  | S3-233228 |
| S3-232580 | Conclusion of KI#5 | Qualcomm Incorporated | merged |  | S3-233231 |
| S3-232581 | Conclusion for KI#1 | Qualcomm Incorporated | merged |  | S3-233433 |
| S3-232582 | Correction to Solution 11 - Protecting the privacy of high priority users | Qualcomm Incorporated, Huawei, HiSilicon | not treated |  |  |
| S3-232583 | Evaluation of Solution 11 - Protecting the privacy of high priority users | Qualcomm Incorporated, Huawei, HiSilicon | not treated |  |  |
| S3-232584 | Proposed Evaluation to Solution 12 | Qualcomm Incorporated | not treated |  |  |
| S3-232585 | Proposed conclusion to KI#2- Protecting the privacy of high priority users | Qualcomm Incorporated, Huawei, HiSilicon | not treated |  |  |
| S3-232586 | pCR: Conclusion for KI#1 | Qualcomm Incorporated, Huawei, HiSilicon | revised |  | S3-233186 |
| S3-232587 | pCR: NSWO support in SNPN using CH with AAA server | Qualcomm Incorporated | revised |  | S3-233243 |
| S3-232588 | pCR: Evaluation of Solution #1 | Qualcomm Incorporated | noted |  | - |
| S3-232589 | pCR: Conclusion for TR 33.892 | Qualcomm Incorporated | noted |  |  |
| S3-232590 | Security for Direct C2 | InterDigital, Inc. | merged |  | S3-233289 |
| S3-232591 | Privacy for Direct C2 | InterDigital, Inc. | merged |  | S3-233286 |
| S3-232592 | Selection between security mechanisms with or without network assistance | InterDigital, Inc. | merged |  | S3-233182 |
| S3-232593 | Update to TR 33.740 Conclusion for KI#1 | InterDigital, Inc. | not treated |  |  |
| S3-232594 | Discussion on ProSe U2U Relay discovery security with Model A | InterDigital, Inc. | noted |  |  |
| S3-232595 | DRAFT LS on Security for U2U Relay Discovery with Model A | InterDigital, Inc. | noted |  |  |
| S3-232596 | Update TR 33.740 conclusion for KI #2 | InterDigital, Inc., Philips International B.V., Huawei, HiSilicon, Xiaomi | not treated |  |  |
| S3-232597 | Update TR 33.740 conclusion for KI #4 | InterDigital, Inc. | not treated |  |  |
| S3-232598 | Update TR 33.740 Solution #34 | InterDigital, Inc. | not treated |  |  |
| S3-232599 | Update to TR 33.740 Solution #35 | InterDigital, Inc. | not treated |  |  |
| S3-232600 | Update to TR 33.740 Solution #36 | InterDigital, Inc. | not treated |  |  |
| S3-232601 | Update Evaluation TR 33.740 solution #12 | InterDigital, Inc. | not treated |  |  |
| S3-232602 | Update to Solution #11 in ID Privacy | Johns Hopkins University APL, InterDigital | not treated |  |  |
| S3-232603 | CR to TS 33.501, 5WWC, Authentication of AUN3 devices behind RG | CableLabs, Charter Communications, Rogers Communications | revised |  | S3-233290 |
| S3-232604 | CAPF 33.122 Vendor specific Security Methods | Nokia, Nokia Shanghai Bell, Intel, Samsung | revised |  | S3-233350 |
| S3-232605 | Selection methods between security mechanisms with or without network assistance | China Telecommunications | revised |  | S3-233182 |
| S3-232606 | Draft LS on NFc registration using OAM | Nokia, Nokia Shanghai Bell | revised |  | S3-233351 |
| S3-232607 | Access token request handling by NRF | Nokia, Nokia Shanghai Bell | revised |  | S3-233220 |
| S3-232608 | SBA01 Delegated access token validation | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-232609 | Further input on LS bundle S3-232344 (was S3-231717) from GSMA on roaming requirements | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232610 | Further analysis on LS S3-231721 from GSMA related to L-PRINS | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232611 | Add General in U2U Relay communication | China Telecommunications | merged |  | S3-233180 |
| S3-232612 | Add Subclause in U2N Relay emergency | China Telecommunications | merged |  | S3-233179 |
| S3-232613 | SID on Study on security for N32 and SEPP hosted scenarios | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232614 | Add General in U2U Relay Discovery | China Telecommunications | merged |  | S3-233176 |
| S3-232615 | PLMN ID in certificate | Nokia, Nokia Shanghai Bell | revised |  | S3-233110 |
| S3-232616 | Rel-18 exception sheet for FS\_eSBA\_SEC | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232617 | Correction in 5G ProSe Direct Discovery | China Telecommunications | withdrawn |  |  |
| S3-232618 | Solution using credential holder AAA for NSWO via 5GC | CableLabs, Charter Communications | revised |  | S3-233402 |
| S3-232619 | Additional conclusion on using Credential Holder AAA for NSWO | CableLabs, Charter Communications | noted |  |  |
| S3-232620 | Correction in 5G ProSe Direct Discovery | China Telecom | agreed |  |  |
| S3-232621 | Using credential holder for primary authentication in Untrusted N3GPP access | CableLabs | merged |  | S3-233240 |
| S3-232622 | Using credential holder for primary authentication in Trusted N3GPP access | CableLabs | merged |  | S3-233242 |
| S3-232623 | N5CW devices using credential holder for primary authentication | CableLabs | merged |  | S3-233246 |
| S3-232624 | Living document for GBA DTLS to TS 33.220 | ZTE Corporation | revised |  | S3-233270 |
| S3-232625 | Living document for AKMA DTLS to TS 33.535 | ZTE Corporation | revised |  | S3-233271 |
| S3-232626 | Delete the SOR and UPU counter wrap around | ZTE Corporation | not treated |  |  |
| S3-232627 | Draft CR to TS 33.535-AAnF function | ZTE Corporation | not treated |  |  |
| S3-232628 | Draft CR to TS 33.535-AF function | ZTE Corporation | not treated |  |  |
| S3-232629 | Draft CR to TS 33.535-Kaf rekeying | ZTE Corporation | not treated |  |  |
| S3-232630 | Draft CR to TS 33.535-Kakma rekeying | ZTE Corporation | merged |  | S3-233221 |
| S3-232631 | Draft CR to TS 33.535-UDM function | ZTE Corporation | not treated |  |  |
| S3-232632 | EN removal for optional supporting of HONTRA in 5GC | ZTE Corporation | revised |  | S3-233216 |
| S3-232633 | EN removal for new UDM service | ZTE Corporation | merged |  | S3-233219 |
| S3-232634 | EN removal for pending authentication | ZTE Corporation | not treated |  |  |
| S3-232635 | EN removal for selection of AMF | ZTE Corporation | merged |  | S3-233217 |
| S3-232636 | EN removal for sending authentication requests to 2 AMFs | ZTE Corporation | not treated |  |  |
| S3-232637 | EN removal for the response message parameters and the semantics of the different cases | ZTE Corporation | not treated |  |  |
| S3-232638 | update the figure of HNA | ZTE Corporation | not treated |  |  |
| S3-232639 | Add AKMA roaming requirements and network model | ZTE Corporation | merged |  | S3-233278 |
| S3-232640 | Add content for Use of AP | ZTE Corporation | merged |  | S3-233281 |
| S3-232641 | Add some terms to 5G\_ProSe\_Ph2 living doc | ZTE Corporation | approved |  |  |
| S3-232642 | Update clause 6.3.6 to 5G\_ProSe\_Ph2 living doc | ZTE Corporation | merged |  | S3-233179 |
| S3-232643 | Update clause 6.6.3 to 5G\_ProSe\_Ph2 living doc | ZTE Corporation | merged |  | S3-233373 |
| S3-232644 | Update clause 6.6.4 to 5G\_ProSe\_Ph2 living doc | ZTE Corporation | merged |  | S3-233183 |
| S3-232645 | Update scope to 5G\_ProSe\_Ph2 living doc | ZTE Corporation | revised |  | S3-233175 |
| S3-232646 | Update clause 4 to TS 33.533 | ZTE Corporation | merged |  | S3-233310 |
| S3-232647 | Conclusion for KI#1 | ZTE Corporation | revised |  | S3-233275 |
| S3-232648 | Add conclusion for KI#2 | ZTE Corporation | noted |  |  |
| S3-232649 | Add conclusion for KI#3 | ZTE Corporation | merged |  | S3-233230 |
| S3-232650 | Conclusion for KI#2 | ZTE Corporation | merged |  | S3-233357 |
| S3-232651 | Add a new solution for key issue 1 | ZTE Corporation | noted |  |  |
| S3-232652 | Update conclusion for key issue 1 | ZTE Corporation | noted |  |  |
| S3-232653 | KI#1 update | Huawei, HiSilicon | noted |  |  |
| S3-232654 | new solution to KI#2 | Huawei, HiSilicon | revised |  | S3-233361 |
| S3-232655 | conclusions to KI#2 | Huawei, HiSilicon | revised |  | S3-233357 |
| S3-232656 | Evaluation to solution#1 | Huawei, HiSilicon | revised |  | S3-233359 |
| S3-232657 | conclusions to KI#3 | Huawei, HiSilicon | revised |  | S3-233358 |
| S3-232658 | new solution to KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-232659 | conclusions to KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-232660 | Direct C2 security for unicast | Huawei, HiSilicon | merged |  | S3-233289 |
| S3-232661 | Address ENs in revocation procedures | Huawei, HiSilicon | merged |  | S3-233406 |
| S3-232662 | Address EN on S-NSSAI mapping | Huawei, HiSilicon | merged |  | S3-233376 |
| S3-232663 | Address EN on AF Authorization | Huawei, HiSilicon | merged |  | S3-233376 |
| S3-232664 | NSSAA procedures for multiple registration | Huawei, HiSilicon | not pursued |  |  |
| S3-232665 | new WID on eNS3 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, LGE, ZTE | not treated |  |  |
| S3-232666 | Resolution of EN for KI#2 | Intel Belgium SA/NV | merged |  | S3-233250 |
| S3-232667 | Conclusion for KI#2: Authorization of PIN capabilities. | Intel Belgium SA/NV | noted |  |  |
| S3-232668 | Solution 12: Delete Privacy EN | Intel Belgium SA/NV | not treated |  |  |
| S3-232669 | Solution 12: Delete Privacy EN | Intel Belgium SA/NV | not treated |  |  |
| S3-232670 | Authorization of selection of participant NWDAF instances in the Federated Learning group. | Intel Belgium SA/NV | merged |  | S3-233267 |
| S3-232671 | Correcting the UUID example in SBA certificates | Ericsson | not pursued |  |  |
| S3-232672 | Correcting the UUID example in SBA certificates | Ericsson | not pursued |  |  |
| S3-232673 | Correcting the UUID example in SBA certificates | Ericsson | not pursued |  |  |
| S3-232674 | Conclusion for KI#2 | Ericsson | revised |  | S3-233167 |
| S3-232675 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | not pursued |  |  |
| S3-232676 | Reply LS on resolving the target KMS URI for a migrated MC service user | Airbus | noted |  |  |
| S3-232677 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | not pursued |  |  |
| S3-232678 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | not pursued |  |  |
| S3-232679 | Conclusion for KI#2 | Ericsson | merged |  | S3-233357 |
| S3-232680 | Update to solution #31 | Ericsson | not treated |  |  |
| S3-232681 | Security for U2U relay in 3GPP coverage | Ericsson | merged |  | S3-233373 |
| S3-232682 | Emergency service via Layer 2 and Layer 3 UE-to-network relay | Ericsson | revised |  | S3-233179 |
| S3-232683 | Update to solution #3 | Ericsson | not treated |  |  |
| S3-232684 | Update to conclusion for KI#1 | Ericsson | not treated |  |  |
| S3-232685 | Update to conclusion for KI#2 | Ericsson | not treated |  |  |
| S3-232686 | Conclusion for KI#2 | Huawei, HiSilicon | noted |  |  |
| S3-232687 | Conclusion for KI#1 | Huawei, HiSilicon, Samsung, Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232688 | Conclusion for KI#2 | Huawei, HiSilicon, Samsung, Nokia, Nokia Shanghai Bell | merged |  | S3-233167 |
| S3-232689 | Reply LS on security architecture for 5G multicast–broadcast services | Huawei, HiSilicon | revised |  | S3-233439 |
| S3-232690 | CR on control-plane procedure in MBS | Huawei, HiSilicon | revised |  | S3-233165 |
| S3-232691 | CR on control-plane procedure in MBS | Huawei, HiSilicon | revised |  | S3-233166 |
| S3-232692 | Conclusion for KI#1 | Huawei, HiSilicon | merged |  | S3-233225 |
| S3-232693 | update to solution#21 | Huawei, HiSilicon | not treated |  |  |
| S3-232694 | Authorization for application server and 5GC NF in Ranging/SL Positioning service exposure, | Huawei, HiSilicon | revised |  | S3-233312 |
| S3-232695 | Authorization for UE in Ranging/SL Positioning service exposure, | Huawei, HiSilicon | revised |  | S3-233398 |
| S3-232696 | Reply LS on security aspects for Ranging/Sidelink Positioning | Huawei, HiSilicon | revised |  | S3-233438 |
| S3-232697 | New WID on security enhancements for MBS Phase 2 | Huawei, HiSilicon | revised |  | S3-233292 |
| S3-232698 | Authorization of selection of participant NWDAF instances in the Federated Learning group | Huawei, HiSilicon | merged |  | S3-233267 |
| S3-232699 | Update conclusion for KI#3 | Huawei, HiSilicon | merged |  | S3-233250 |
| S3-232700 | Add conclusion for key issue #1 | Huawei, HiSilicon | approved |  |  |
| S3-232701 | Clean up for UC3S\_Ph2 | Huawei, HiSilicon | approved |  |  |
| S3-232702 | New WID for UC3S\_Ph2 | Huawei, HiSilicon, China Mobile, China Telecom, China Unicom, CAICT | agreed |  |  |
| S3-232703 | User Consent for Roaming in eNA | Huawei, HiSilicon | revised |  | S3-233293 |
| S3-232704 | Correction on UP IP for EN-DC (R17) | Huawei, HiSilicon | agreed |  |  |
| S3-232705 | Correction on UP IP for EN-DC (R18) | Huawei, HiSilicon | not pursued |  |  |
| S3-232706 | Conclusion update for AI ML model authorization | Huawei, HiSilicon | merged |  | S3-233251 |
| S3-232707 | Conclusion for abnormal NF detection | Huawei, HiSilicon | revised |  | S3-233262 |
| S3-232708 | Authorization for analytics exchange in roaming case | Huawei, HiSilicon | noted |  |  |
| S3-232709 | Authorization for data exchange in roaming case | Huawei, HiSilicon | noted |  |  |
| S3-232710 | New Solution on Implicit Authentication for Serving Network for NSWO support in SNPN | Huawei, HiSilicon | noted |  |  |
| S3-232711 | Conclusion for Implicit Authentication for Serving Network related to NSWO | Huawei, HiSilicon | noted |  |  |
| S3-232712 | Address ENs for solution #1 | Huawei, HiSilicon | revised |  | S3-233356 |
| S3-232713 | Authentication and authorization for RNAA | Huawei, HiSilicon | not treated |  |  |
| S3-232714 | Update to the conclusion of KI#3 in TR 33.893 | Huawei, HiSilicon | merged |  | S3-233230 |
| S3-232715 | Security for the ranging discovery | Huawei, HiSilicon | merged |  | S3-233312 |
| S3-232716 | Ranging unicast security procedures | Huawei, HiSilicon | merged |  | S3-233315 |
| S3-232717 | Security and privacy for DAA unicast security | Huawei, HiSilicon | merged |  | S3-233286 |
| S3-232718 | Security and privacy for DAA traffic broadcast communication | Huawei, HiSilicon | merged |  | S3-233286 |
| S3-232719 | Security and privacy for Remote ID Broadcast communication | Huawei, HiSilicon | revised |  | S3-233285 |
| S3-232720 | Update to the conclusion of KI#1 in TR 33.740 to include the Discovery integrated in PC5 | Huawei, HiSilicon | not treated |  |  |
| S3-232721 | Security for UE-to-UE Relay discovery procedures | Huawei, HiSilicon | merged |  | S3-233176 |
| S3-232722 | Security procedures for Layer-3 UE-to-UE Relay with network assistance | Huawei, HiSilicon | revised |  | S3-233373 |
| S3-232723 | Security procedures for Layer-3 UE-to-UE Relay without network assistance | Huawei, HiSilicon | revised |  | S3-233181 |
| S3-232724 | Security procedures for 5G ProSe Layer-2 UE-to-UE Relay | Huawei, HiSilicon | revised |  | S3-233183 |
| S3-232725 | Selection of UE-to-UE Relay security procedures | Huawei, HiSilicon | merged |  | S3-233182 |
| S3-232726 | New WID for security of SEAL Data Delivery enabler | Huawei, HiSilicon, China Mobile, Samsung | revised |  | S3-233295 |
| S3-232727 | Add security aspect of SEAL Data Delivery enabler | Huawei, HiSilicon, China Mobile, Samsung | revised |  | S3-233294 |
| S3-232728 | DDNMF selection in UE-to-Network Relay discovery procedure | Huawei, HiSilicon | merged |  | S3-233377 |
| S3-232729 | Discussion about DDNMF selection in UE-to-Network Relay discovery procedure | Huawei, HiSilicon | noted |  |  |
| S3-232730 | Reply LS to RAN2 on security for L2 UE-to-UE relay | Huawei, HiSilicon | merged |  | S3-233323 |
| S3-232731 | Clarification on discovery of PKMF of Relay UE by the SMF | Huawei, HiSilicon | not treated |  |  |
| S3-232732 | Addressing Editor's Note on remote multiple Remote User ID | Huawei, HiSilicon | noted |  |  |
| S3-232733 | pCR on addressing the issue of refaining from sending data by the remote UE | Huawei, HiSilicon | noted |  |  |
| S3-232734 | pCR on Addressing Editor's Note on remote UE's subscription update notification | Huawei, HiSilicon | approved |  |  |
| S3-232735 | Delete Editor's Note to sol#18 | Huawei, HiSilicon | revised |  | S3-233403 |
| S3-232736 | Update conclusion 7.1.3 | Huawei, HiSilicon | merged |  | S3-233235 |
| S3-232737 | Add conclusion to KI#4 | Huawei, HiSilicon | noted |  |  |
| S3-232738 | Update solution#11 | Huawei, HiSilicon | revised |  | S3-233280 |
| S3-232739 | CR on N3IWF and TNGF relocation | Huawei, HiSilicon | revised |  | S3-233272 |
| S3-232740 | CR on AUN3 device registration | Huawei, HiSilicon | not pursued |  |  |
| S3-232741 | Update architecture to support roaming | Huawei, HiSilicon | revised |  | S3-233278 |
| S3-232742 | Adding Roaming requirement | Huawei, HiSilicon | merged |  | S3-233278 |
| S3-232743 | New service for UDM | Huawei, HiSilicon | not treated |  |  |
| S3-232744 | Living document for HONTRA CR to TS33.535 | Huawei, HiSilicon | revised |  | S3-233221 |
| S3-232745 | updating SoR/UPU clauses | Huawei, HiSilicon | not treated |  |  |
| S3-232746 | Living document of HONTRA to TS 33.501 | Huawei, HiSilicon | revised |  | S3-233222 |
| S3-232747 | Living document for TR33.926 | Huawei, HiSilicon | approved |  | - |
| S3-232748 | Living doc of TS 33.216 | Huawei, HiSilicon | approved |  | - |
| S3-232749 | Living doc of TS 33.117 | Huawei, HiSilicon | approved |  | - |
| S3-232750 | Conclusion to KI#1 | Huawei, HiSilicon | noted |  |  |
| S3-232751 | updating interworking usecase | Huawei, HiSilicon | revised |  | S3-233223 |
| S3-232752 | cleanup HONTRA | Huawei, HiSilicon | merged |  | S3-233217 |
| S3-232753 | deleting EN for AKMA | Huawei, HiSilicon | not treated |  |  |
| S3-232754 | Discussion paper on refraining from sending data at remote UE | Huawei, HiSilicon | noted |  |  |
| S3-232755 | pCR on refraining issue | Huawei, HiSilicon | noted |  |  |
| S3-232756 | clean up KI #1 | Huawei, HiSilicon | noted |  |  |
| S3-232757 | Annex for MnF product class | Huawei, HiSilicon | agreed |  |  |
| S3-232758 | Cleanups for MnF SCAS | Huawei, HiSilicon | approved |  |  |
| S3-232759 | Clause 4.3 updates for MnF SCAS | Huawei, HiSilicon | revised |  | S3-233153 |
| S3-232760 | SCAS reference correction work summary | Huawei, HiSilicon | noted |  |  |
| S3-232761 | SCAS release reference corrections | Huawei, HiSilicon | revised |  | S3-233252 |
| S3-232762 | SCAS release reference corrections | Huawei, HiSilicon | revised |  | S3-233253 |
| S3-232763 | SCAS release reference corrections | Huawei, HiSilicon | agreed |  |  |
| S3-232764 | SCAS release reference corrections | Huawei, HiSilicon | revised |  | S3-233254 |
| S3-232765 | SCAS release reference corrections | Huawei, HiSilicon | agreed |  |  |
| S3-232766 | SCAS release reference corrections | Huawei, HiSilicon | revised |  | S3-233255 |
| S3-232767 | SCAS release reference corrections | Huawei, HiSilicon | agreed |  |  |
| S3-232768 | SCAS release reference corrections | Huawei, HiSilicon | revised |  | S3-233256 |
| S3-232769 | SCAS release reference corrections | Huawei, HiSilicon | revised |  | S3-233257 |
| S3-232770 | SCAS release reference corrections | Huawei, HiSilicon | revised |  | S3-233258 |
| S3-232771 | SCAS release reference corrections | Huawei, HiSilicon | revised |  | S3-233259 |
| S3-232772 | SCAS release reference corrections | Huawei, HiSilicon | revised |  | S3-233260 |
| S3-232773 | SCAS release reference corrections | Huawei, HiSilicon | agreed |  |  |
| S3-232774 | SCAS release reference corrections | Huawei, HiSilicon | agreed |  |  |
| S3-232775 | Correction of annex for NSSAAF product class | Huawei, HiSilicon | not pursued |  |  |
| S3-232776 | Evaluation for tenet 4 | Huawei, HiSilicon | not treated |  |  |
| S3-232777 | Additions to evaluation of tenet 6 | Huawei, HiSilicon | revised |  | S3-233320 |
| S3-232778 | Additions to evaluation of tenet 7 | Huawei, HiSilicon | not treated |  |  |
| S3-232779 | Clause 4.2.2 updates for MnF SCAS | Huawei, HiSilicon | revised |  | S3-233201 |
| S3-232780 | SCAS release reference corrections to living doc to TS 33.511 | Huawei, HiSilicon | revised |  | S3-233261 |
| S3-232781 | SCAS release reference corrections to living doc to TS 33.513 | Huawei, HiSilicon | approved |  |  |
| S3-232782 | living doc for 33.916 | Huawei, HiSilicon | approved |  | - |
| S3-232783 | Update the Key issue on EEC provided information verification | Huawei, HiSilicon | approved |  |  |
| S3-232784 | New solution for EEC provided IP address verification | Huawei, HiSilicon | revised |  | S3-233344 |
| S3-232785 | Authentication and Authorization between AC and EEC | Huawei, HiSilicon | approved |  |  |
| S3-232786 | Authentication and Authorization between V-ECS and H-ECS | Huawei, HiSilicon | revised |  | S3-233171 |
| S3-232787 | Security for EAS discovery procedure via V-EASDF | Huawei, HiSilicon | revised |  | S3-233172 |
| S3-232788 | Transport security for the EDGE10 interface | Huawei, HiSilicon | approved |  |  |
| S3-232789 | Security for EAS discovery in non-roaming case | Huawei, HiSilicon | revised |  | S3-233341 |
| S3-232790 | Security for EAS discovery in non-roaming case | Huawei, HiSilicon | revised |  | S3-233342 |
| S3-232791 | Relay LS on DNS over TLS (DoT) and DNS over HTTPS (DoH) | Huawei, HiSilicon | noted |  |  |
| S3-232792 | security of selective SCG activation | Huawei, HiSilicon | noted |  |  |
| S3-232793 | Fix the restricted discovery procedures in 5G ProSe | Huawei, HiSilicon | revised |  | S3-233185 |
| S3-232794 | Conclusion for KI#3 | Ericsson | noted |  |  |
| S3-232795 | Discussion paper to review L-PRINS with risk benefit trade-off | Ericsson | noted |  |  |
| S3-232796 | Agenda | SA WG3 Chair | approved | S3-232300 |  |
| S3-232797 | Protection of RRC Resume Request message | Huawei, HiSilicon | noted |  |  |
| S3-232798 | SN authentication for R17 NSWO | Huawei, HiSilicon | not pursued |  |  |
| S3-232799 | CR on N5CW registration key generation | Huawei, HiSilicon | merged |  | S3-233149 |
| S3-232800 | Security of CPAC | Huawei, HiSilicon | revised |  | S3-233353 |
| S3-232801 | Security of CPAC | Huawei, HiSilicon | revised |  | S3-233354 |
| S3-232802 | Fix the restricted discovery procedures in LTE ProSe R17 | Huawei, HiSilicon | revised |  | S3-233232 |
| S3-232803 | Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks | Ericsson | withdrawn |  |  |
| S3-232804 | Add service area in TS33.501 | Huawei, HiSilicon | not pursued |  |  |
| S3-232805 | Reply LS to Reply LS on the user consent for trace reporting S3-223162 | Ericsson | revised |  | S3-233144 |
| S3-232806 | Security event logging of username | Ericsson | not pursued |  |  |
| S3-232807 | New solution for Discovery security material and SL session root key provisioning for Ranging/SL Positioning UE discovery | Ericsson | revised |  | S3-233229 |
| S3-232808 | Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC | Telekom Deutschland GmbH | not pursued | S3-232307 |  |
| S3-232809 | Security event logging of username | Ericsson | not pursued |  |  |
| S3-232810 | Conclusion for KI#3 | LG Electronics | merged |  | S3-233358 |
| S3-232811 | EN removal for optional support of HONTRA | LG Electronics | merged |  | S3-233216 |
| S3-232812 | SERP-CR on security protection on RRCResumeRequest message | Apple | not pursued |  |  |
| S3-232813 | SERP-LS on security protection on RRCResumeRequest message | Apple | noted |  |  |
| S3-232814 | CR on TS 33.501 on IRAT security | Apple | not pursued |  |  |
| S3-232815 | CR on 33501\_s1n1\_idlemode\_mapped\_ctxt | Apple | not pursued |  |  |
| S3-232816 | SL Positioning-Groupcast security | Apple | not treated |  |  |
| S3-232817 | MEC - Adding conclusions on UE optimisation in KI#2.2 | Apple | noted |  |  |
| S3-232818 | 5GFBS - Conclusion | Apple | revised |  | S3-233328 |
| S3-232819 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network (S6-231061) | Apple | noted |  |  |
| S3-232820 | Reply LS on user consent for UE location sharing (S6-230351) | Apple | noted |  |  |
| S3-232821 | Password expiry | Ericsson | not pursued |  |  |
| S3-232822 | Introduction of user data protection over N3 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-232823 | Password expiry | Ericsson | not pursued |  |  |
| S3-232824 | KI#6 Sol#7 EN resolution and evaluation | Ericsson | revised |  | S3-233188 |
| S3-232825 | Discussion paper on CMPv3 and lightweight profile | Ericsson | noted |  |  |
| S3-232826 | Update to Solution #19 | BUPT, OPPO | noted |  |  |
| S3-232827 | Resolution of editor’s note in solution 1 | Nokia, Nokia Shanghai Bell | merged |  | S3-233362 |
| S3-232828 | Resolution of EN – conclusion to KI#1 – N5GC device access | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-232829 | Resolution of EN – conclusion to KI#1 – Trusted access | Nokia, Nokia Shanghai Bell, Lenovo, Intel | revised |  | S3-233235 |
| S3-232830 | Informative description of authentication for localised services | Nokia, Nokia Shanghai Bell | revised |  | S3-233247 |
| S3-232831 | Conclusions to KI#1 | Nokia, Nokia Shanghai Bell | revised |  | S3-233433 |
| S3-232832 | Conclusions to KI#2 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-232833 | Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks | Ericsson | noted |  |  |
| S3-232834 | Resolving EN in Conclusions for Key Issue #2.6 | Huawei, HiSilicon | not treated |  |  |
| S3-232835 | Resolving EN of in Conclusions for Key Issue#2.1 | Huawei, HiSilicon | revised |  | S3-233169 |
| S3-232836 | Clarification on GPSI verification | Huawei, HiSilicon | revised |  | S3-233174 |
| S3-232837 | Reply LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service | Huawei, HiSilicon | revised |  | S3-233140 |
| S3-232838 | Clarification on data-type encryption policy | Huawei, HiSilicon | revised |  | S3-233343 |
| S3-232839 | Clarification on Server side certificate-based TLS authentication | Huawei, HiSilicon | approved |  |  |
| S3-232840 | Correction of authorization between SEPP and network functions | Huawei, HiSilicon | not pursued |  |  |
| S3-232841 | Living CR of EDGE\_Ph2 on TS 33.558 | Huawei, HiSilicon | revised |  | S3-233371 |
| S3-232842 | Living CR of EDGE\_Ph2 on TS\_33.501 | Huawei, HiSilicon | revised |  | S3-233372 |
| S3-232843 | Correction of SBA test for UPF | Huawei, Hisilicon | revised |  | S3-233335 |
| S3-232844 | correction of SBA test for UPF-r17 | Huawei, HiSilicon | revised |  | S3-233337 |
| S3-232845 | New solution on attestation at 3GPP application layer | Huawei, HiSilicon | revised |  | S3-233305 |
| S3-232846 | Conclusion for key issue #1 | Huawei, HiSilicon | revised |  | S3-233297 |
| S3-232847 | living CR for RTC | Huawei, HiSilicon | revised |  | S3-233298 |
| S3-232848 | Security aspects of SBA in IMS media control interface | Huawei, HiSilicon | revised |  | S3-233299 |
| S3-232849 | Security aspects ofDC usage in IMS | Huawei, HiSilicon | noted |  |  |
| S3-232850 | Cleanups for RTC | Huawei, HiSilicon | revised |  | S3-233300 |
| S3-232851 | Authentication result removal | Huawei, HiSilicon | not pursued |  |  |
| S3-232852 | Authorization of NF service consumers for data access via DCCF | Nokia, Nokia Shanghai Bell | revised |  | S3-233154 |
| S3-232853 | Addressing security of Edge Node Sharing | Ericsson | not treated |  |  |
| S3-232854 | Resolving EN in solution #27 | Ericsson | revised |  | S3-233303 |
| S3-232855 | Update conclusion on authorization between EESes | Ericsson | noted |  |  |
| S3-232856 | Token-based EES authorization | Ericsson | not treated |  |  |
| S3-232857 | Conclusion for EEC provided IP address verification | Ericsson | not treated |  |  |
| S3-232858 | Resolving ENs in solution #28 | Ericsson | not treated |  |  |
| S3-232859 | EEC authentication and authentication method negotiation | Ericsson | revised |  | S3-233173 |
| S3-232860 | GPSI verification | Ericsson | not pursued |  | - |
| S3-232861 | [Draft] Reply LS on Secure DNS | Ericsson | noted |  |  |
| S3-232862 | Transport security for DNS | Ericsson | not pursued |  |  |
| S3-232863 | Resolving EN in solution #6 | Ericsson | revised |  | S3-233304 |
| S3-232864 | Update to conclusion | Ericsson | merged |  | S3-233274 |
| S3-232865 | Client credential flow | Ericsson | not treated |  |  |
| S3-232866 | Removal of Editor’s Notes of solution #28 | Lenovo | not treated |  |  |
| S3-232867 | Reply LS on security for L2 UE-to-UE relay | Lenovo | revised |  | S3-233323 |
| S3-232868 | Conclusion for KI#1 | Lenovo, AT&T, Broadcom, CableLabs, CATT, Charter, China Mobile, China Telecom, Deutsche Telekom, Intel, LG Electronics, Motorola Solutions MSI, NEC, Nokia, Nokia Shanghai Bell, Samsung, Verizon, Xiaomi | noted |  |  |
| S3-232869 | New WID to enable URSP rules to securely identify Applications (USIA) | Lenovo, AT&T, Broadcom, CableLabs, CATT, Charter, China Mobile, China Telecom, Deutsche Telekom, Intel, LG Electronics, Motorola Solutions MSI, NEC, Nokia, Nokia Shanghai Bell, Samsung, Verizon, Xiaomi | noted |  |  |
| S3-232870 | Clarification on the description about AAnF | China Telecommunications | not pursued |  |  |
| S3-232871 | Authorization of NF service consumers for data access via DCCF | Nokia Poland | revised |  | S3-233155 |
| S3-232872 | pCR to TR33.848 - Editorial corrections | Vodafone GmbH | noted |  |  |
| S3-232873 | Supplement to Solution #7 | China Telecommunications | not treated |  |  |
| S3-232874 | Resolve the Editor’s Notes in Solution #27 | BUPT | not treated |  |  |
| S3-232875 | pCR to TR33.848 - Addition of evaluation for Solution #1 | Vodafone GmbH | revised |  | S3-233156 |
| S3-232876 | pCR to TR33.848 - Addition of evaluation for Solution #2 | Vodafone GmbH | revised |  | S3-233157 |
| S3-232877 | pCR to TR33.848 - Addition of evaluation for Solution #3 | Vodafone GmbH | revised |  | S3-233158 |
| S3-232878 | Clarification of SEPP inter-domain certificate profiles | Ericsson | not pursued |  |  |
| S3-232879 | Comparison of proposals for SCG Addition | Ericsson | noted |  |  |
| S3-232880 | pCR to TR33.848 - Addition of evaluation for Solution #4 | Vodafone GmbH | revised |  | S3-233159 |
| S3-232881 | Clarification of SEPP inter-domain certificate profiles | Ericsson | not pursued |  |  |
| S3-232882 | pCR to TR33.848 - Addition of evaluation for Solution #5 | Vodafone GmbH | revised |  | S3-233160 |
| S3-232883 | Clarification of SEPP inter-domain certificate profiles | Ericsson | not pursued |  |  |
| S3-232884 | pCR to TR33.848 - Addition of evaluation for Solution #6 | Vodafone GmbH | revised |  | S3-233161 |
| S3-232885 | Verification of the serving network name by the AUSF | Ericsson | not pursued |  |  |
| S3-232886 | Verification of the serving network name by the AUSF | Ericsson | not pursued |  |  |
| S3-232887 | Correction of the authorization of NF Service Consumers for data access via DCCF | Ericsson | merged |  | S3-233154 |
| S3-232888 | Correction of the authorization of NF Service Consumers for data access via DCCF | Ericsson | merged |  | S3-233155 |
| S3-232889 | Correction of procedures for N3GPP trusted access | Ericsson | revised |  | S3-233149 |
| S3-232890 | Correction of procedures for N3GPP trusted access | Ericsson | revised |  | S3-233150 |
| S3-232891 | Correction of procedures for N3GPP trusted access | Ericsson | revised |  | S3-233151 |
| S3-232892 | Correction of procedures for N5CW | Ericsson | merged |  | S3-233146 |
| S3-232893 | Correction of procedures for N5CW | Ericsson | merged |  | S3-233147 |
| S3-232894 | Correction of procedures for N5CW | Ericsson | merged |  | S3-233148 |
| S3-232895 | Clarification on access token requests for NF Producers of a specific NF type and token-based authorization for indirect communication with delegated discovery | Ericsson | not pursued |  | - |
| S3-232896 | Authorization of selection of participant NWDAF instances in the Federated Learning group | Ericsson | merged |  | S3-233267 |
| S3-232897 | Security for AI/ML model storage and sharing | Ericsson | revised |  | S3-233268 |
| S3-232898 | Update to living document - Untrusted non-3GPP access | Ericsson | revised |  | S3-233240 |
| S3-232899 | Update to living document - (Option 1) Trusted non-3GPP access | Ericsson | noted |  |  |
| S3-232900 | Update to living document - (Option 2) Trusted non-3GPP access | Ericsson | revised |  | S3-233242 |
| S3-232901 | Update to living document - Access to SNPN services for N5CW devices | Ericsson | revised |  | S3-233246 |
| S3-232902 | Update to living document - NSWO access to SNPN | Ericsson | revised |  | S3-233245 |
| S3-232903 | Update to living document - Security aspects of access to localized services | Ericsson | merged |  | S3-233247 |
| S3-232904 | Resolve EN to conclusion to KI#2 "Authorization of selection of participant NWDAF instances in the Federated Learning group" | Ericsson | merged |  | S3-233250 |
| S3-232905 | Resolution of EN in the conclusion for KI#3 "Security for AI/ML model storage and sharing" | Ericsson, Nokia, Intel | revised |  | S3-233251 |
| S3-232906 | Resolving ENs in Solution #13 | Ericsson | revised |  | S3-233381 |
| S3-232907 | Updated conclusion for KI#1 regarding trusted access | Ericsson | merged |  | S3-233235 |
| S3-232908 | Updated conclusion for KI#1 regarding N5CW access | Ericsson | approved |  |  |
| S3-232909 | Updated conclusion of KI#2 Authentication for UE access to hosting network | Ericsson | revised |  | S3-233404 |
| S3-232910 | Clean up of TR 33.858 | Ericsson | revised |  | S3-233236 |
| S3-232911 | Presentation of Report to TSG: TR 33.858, Version 2.0.0 | Ericsson | approved |  |  |
| S3-232912 | pCR to TR33.848 - Addition of evaluation for Solution #7 | Vodafone GmbH | revised |  | S3-233162 |
| S3-232913 | pCR to TR33.848 - Addition of evaluation for Solution #8 | Vodafone GmbH | revised |  | S3-233163 |
| S3-232914 | Cover Sheet for TR 33.848 - For Information | Vodafone GmbH | noted |  | - |
| S3-232915 | pCR to TR33.848 - Addition of Conclusions and Recommendations | Vodafone GmbH | revised |  | S3-233306 |
| S3-232916 | Reply LS on security for L2 UE-to-UE relay | OPPO | merged |  | S3-233323 |
| S3-232917 | adding description about security requirements of Traffic separation to clause 4.3 | China Mobile | revised |  | S3-233336 |
| S3-232918 | adding description about security requirements of separation of inter-VNF and intra-VNF traffic to clause 4.3 | China Mobile | approved |  |  |
| S3-232919 | Editorial fix about section number | China Mobile, Nokia | approved |  |  |
| S3-232920 | Presentation of TS33.527 to TSG for information and approval | China Mobile | approved |  |  |
| S3-232921 | EN Removal for sol#4 33.870 | China Mobile | not treated |  |  |
| S3-232922 | Evaluation for sol#4 33.870 | China Mobile | not treated |  |  |
| S3-232923 | [draft] Reply LS for C4-230790 on Removal of the uavAuthenticated IE from Create SM Context Request\_LS | China Mobile | noted |  |  |
| S3-232924 | Removal of AMF UUAA result indication\_LS | China Mobile | noted |  |  |
| S3-232925 | Enhance the overview with R18 contents-4 | China Mobile | approved |  |  |
| S3-232926 | Add the background on A2X Direct Communication-5.x.1 | China Mobile | revised |  | S3-233284 |
| S3-232927 | Add the background on A2X Direct C2 Communication-5.y.1 | China Mobile | merged |  | S3-233289 |
| S3-232928 | [draft] reply LS on ETSI MEC discussion on possible new requirements for AKMA framework | China Mobile | revised |  | S3-233142 |
| S3-232929 | Converting the living document of AAnF SCAS to CR | China Mobile | revised |  | S3-233203 |
| S3-232930 | Clarification of the scope | China Mobile | revised |  | S3-233276 |
| S3-232931 | Presentation of TR 33.737 to TSG | China Mobile | approved |  |  |
| S3-232932 | AKMA roaming requirements | China Mobile | merged |  | S3-233278 |
| S3-232933 | AKMA AP | China Mobile | revised |  | S3-233281 |
| S3-232934 | Living document for AKMA ph2 WID | China Mobile | revised |  | S3-233383 |
| S3-232935 | Conclusion for key issue #4 | China Mobile | noted |  |  |
| S3-232936 | Conclusion for key issue #6 | China Mobile | revised |  | S3-233265 |
| S3-232937 | Update conclusion for key issue #1 | China Mobile | merged |  | S3-233249 |
| S3-232938 | Presentation of TR33.738 to TSG for approval | China Mobile | revised |  | S3-233436 |
| S3-232939 | living CR for eNA | China Mobile | revised |  | S3-233266 |
| S3-232940 | General description of protection of data and analytics exchange in roaming case | China Mobile | revised |  | S3-233386 |
| S3-232941 | protection of analytics exchange in roaming case | China Mobile | revised |  | S3-233387 |
| S3-232942 | Discussion on Selective SCG activation | OPPO | noted |  |  |
| S3-232943 | Update Sol#21 | OPPO | not treated |  |  |
| S3-232944 | pCR to TR33.848 - Addition of Appendix - Potential contents page for an Attestation TR | Vodafone GmbH | noted |  |  |
| S3-232945 | Reply-LS on security for L2 UE-to-UE relay | CATT | merged |  | S3-233323 |
| S3-232946 | Update the Conclusion of KI#3 | OPPO | merged |  | S3-233230 |
| S3-232947 | Validation of the parameters sent by OAuth 2.0 client (NF Service Consumer) in the access token request. | Ericsson | not pursued |  |  |
| S3-232948 | Conclusion on KI#5 | OPPO | merged |  | S3-233231 |
| S3-232949 | pCR to TR33.893 Update Solution #22 | CATT | not treated |  |  |
| S3-232950 | [Draft] Reply LS on security aspects for Ranging/Sidelink Positioning | Xiaomi Technology | noted |  |  |
| S3-232951 | 33.893: Update Note 5 in Solution #15 | Xiaomi Technology | not treated |  |  |
| S3-232952 | 33.893: Resolve the Editor’s Note in Solution #16 | Xiaomi Technology | revised |  | S3-233394 |
| S3-232953 | 33.893: Resolve the Editor’s Note in Solution #17 | Xiaomi Technology | revised |  | S3-233395 |
| S3-232954 | 33.893: Conclusions on Privacy during Discovery for Key Issue #1 | Xiaomi Technology | revised |  | S3-233226 |
| S3-232955 | 33.893: Conclusions on Non-Trackability for Key Issue #1 | Xiaomi Technology | revised |  | S3-233227 |
| S3-232956 | 33.893: Conclusions on Client UE Authorization for Key Issue #2 | Xiaomi Technology | revised |  | S3-233225 |
| S3-232957 | 33.893: Further Conclusions UE Role Authorization for Key Issue #2 | Xiaomi Technology | revised |  | S3-233396 |
| S3-232958 | 33.893: Further Conclusions on Key Issue #3 | Xiaomi Technology | merged |  | S3-233230 |
| S3-232959 | 33.893: Further Conclusions on Key Issue #4 | Xiaomi Technology | revised |  | S3-233397 |
| S3-232960 | 33.893: Conclusions on Key Issue #5 | Xiaomi Technology | revised |  | S3-233231 |
| S3-232961 | Revised WID on Security Aspects of Ranging Based Services and Sidelink Positioning | Xiaomi Technology | revised |  | S3-233296 |
| S3-232962 | 33.533: Update to the Scope | Xiaomi Technology | revised |  | S3-233309 |
| S3-232963 | 33.533: Overview of security architecture | Beijing Xiaomi Mobile Software | revised |  | S3-233310 |
| S3-232964 | 33.533: Security Requirements and Procedure for Discovery | Xiaomi Technology | revised |  | S3-233314 |
| S3-232965 | 33.533: Security Procedure for Discovery of V2X capable UEs | Beijing Xiaomi Mobile Software | merged |  | S3-233314 |
| S3-232966 | 33.533: Authorization Requirements for Ranging/SL Positioning Services | Xiaomi Technology | revised |  | S3-233313 |
| S3-232967 | 33.533: Authorization of AF/5GC NF for Ranging/SL positioning service exposure | Beijing Xiaomi Mobile Software | merged |  | S3-233314 |
| S3-232968 | 33.533: Procedure of UE Role Authorization by the Network | Xiaomi Technology | noted |  |  |
| S3-232969 | 33.533: Security Requirements and Procedures for Unicast Communication | Xiaomi Technology | revised |  | S3-233315 |
| S3-232970 | 33.533: Security Procedure for Direct Communication without Long Term Credentials | Xiaomi Technology | not treated |  |  |
| S3-232971 | 33.700-28: Update to Conclusion on Key Issue #1 | Xiaomi Technology | revised |  | S3-233316 |
| S3-232972 | Update to Conclusion on Key Issue #1 in TR 33.740 | Beijing Xiaomi Mobile Software | not treated |  |  |
| S3-232973 | draft LS on UE-to-UE Relay discovery | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232974 | Remove the EN related to the selection of AMF | Beijing Xiaomi Mobile Software | merged |  | S3-233217 |
| S3-232975 | New UDM service operation | Beijing Xiaomi Mobile Software | merged |  | S3-233218 |
| S3-232976 | Security requirement for UE-to-UE Relay communication | Beijing Xiaomi Mobile Software | revised |  | S3-233180 |
| S3-232977 | Security of 5G Prose PC5 Communication for 5G ProSe Layer-3 UE-to-UE Relay without network assistance in TS 33.503 | Beijing Xiaomi Mobile Software | merged |  | S3-233181 |
| S3-232978 | Security for 5G ProSe UE-to-UE Relay communication with integrated discovery | Beijing Xiaomi Mobile Software | noted |  |  |
| S3-232979 | R17 Update Subscription and unsubscription procedure of NSACF notification service | Xiaomi | merged |  | S3-233376 |
| S3-232980 | R18 Update Subscription and unsubscription procedure of NSACF notification service (mirror) | Xiaomi | merged |  | S3-233380 |
| S3-232981 | New sol to KI#2 of TR 33.870 | Xiaomi communications | not treated |  |  |
| S3-232982 | Update KI#2.1 conclusion of TR 33.739 | Xiaomi communications | noted |  |  |
| S3-232983 | KI#2.7, new sol on AKMAGBA based IP address verification | Xiaomi communications | revised |  | S3-233367 |
| S3-232984 | KI#2.7, new sol on KDF based IP verification | Xiaomi communications | revised |  | S3-233368 |
| S3-232985 | Update Conclusion for Trusted N3GPP access to SNPN | Xiaomi communications | noted |  |  |
| S3-232986 | update Sol#2 for tracability of UE | Xiaomi communications | noted |  |  |
| S3-232987 | Add conclusion for KI #2 of TR 33.882 | Xiaomi communications | noted |  |  |
| S3-232988 | Add conclusion to KI#1 of TR 33.882 | Xiaomi communications | noted |  |  |
| S3-232989 | Add evaluation to sol #3 of TR 33.886 | Xiaomi communications | revised |  | S3-233360 |
| S3-232990 | KI#1, new sol on checking API invoker authorization | Xiaomi communications | noted |  |  |
| S3-232991 | KI#2, add evaluation to sol #14 | Xiaomi communications | approved |  |  |
| S3-232992 | KI#2, update sol #14 for the triggering of authorization revocation | Xiaomi communications | approved |  |  |
| S3-232993 | Update authorization revocation conclusion | Xiaomi communications | merged |  | S3-233274 |
| S3-232994 | Update conclusion of TR 33.884 | Xiaomi communications | merged |  | S3-233274 |
| S3-232995 | Update for authentication proxy in AKMA scenarios | Xiaomi communications | merged |  | S3-233281 |
| S3-232996 | Enable DTLS in Ua star protocol | Xiaomi communications | merged |  | S3-233271 |
| S3-232997 | Update for authentication and authorization between V-ECS and H-ECS | Xiaomi communications | merged |  | S3-233171 |
| S3-232998 | Add the security mechanism for N5CW devices in SNPN scenarios | Xiaomi communications | merged |  | S3-233246 |
| S3-232999 | Add the security mechanism for trusted non-3GPP access in SNPN scenarios | Xiaomi communications | merged |  | S3-233242 |
| S3-233000 | Add the security mechanism for untrusted non-3GPP access in SNPN scenarios | Xiaomi communications | merged |  | S3-233240 |
| S3-233001 | Resolve EN for choosing GBA\_U GBA\_ME | Xiaomi communications | merged |  | S3-233375 |
| S3-233002 | pCR to TR33.893 Update Solution #23 | CATT | not treated |  |  |
| S3-233003 | pCR to TR33.893 Update Solution #24 | CATT | not treated |  |  |
| S3-233004 | pCR to TR33.893 Conclusion of KI#5 | CATT | merged |  | S3-233231 |
| S3-233005 | pCR to TR33.740 Update Solution #28 | CATT | not treated |  |  |
| S3-233006 | pCR to TR33.740 Update conclusion of key issue #1 | CATT | not treated |  |  |
| S3-233007 | pCR to TR33.740 Update conclusion of key issue #5 | CATT | not treated |  |  |
| S3-233008 | Cover sheet for presentation of TR 33.882 to TSG-SA#100 | vivo | revised |  | S3-233273 |
| S3-233009 | AIML\_NGRAN KI2 conclusion | Ericsson | noted |  |  |
| S3-233010 | AIML\_NGRAN KI1 conclusion | Ericsson | noted |  |  |
| S3-233011 | AIML\_NGRAN KI3 conclusion | Ericsson | approved |  |  |
| S3-233012 | Living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.220, IETF OSCORE as GBA Ua protocol | Ericsson | revised |  | S3-233423 |
| S3-233013 | pCR to GBA OSCORE living doc: Clarifications | Ericsson | revised |  | S3-233375 |
| S3-233014 | Proposal for a living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.535, IETF OSCORE as AKMA Ua\* protocol | Ericsson | noted |  |  |
| S3-233015 | Reply LS on Authentication Result Removal | Ericsson | noted |  |  |
| S3-233016 | HONTRA clarifications | Ericsson | revised |  | S3-233217 |
| S3-233017 | Annex N additions for IMS data channels | Ericsson | noted |  |  |
| S3-233018 | IMS Data channel security updates | Ericsson | noted |  |  |
| S3-233019 | Rel17 Clarification on AF authorization for the NSACF notification procedure | Ericsson | revised |  | S3-233376 |
| S3-233020 | Rel17 Alignment of NSACF notification procedure with existing procedures | Ericsson | merged |  | S3-233376 |
| S3-233021 | Rel18 Clarification on AF authorization for the NSACF notification procedure | Ericsson | revised |  | S3-233380 |
| S3-233022 | Rel18 Alignment of NSACF notification procedure with existing procedures | Ericsson | merged |  | S3-233380 |
| S3-233023 | Proposal for a living document for SERP: draftCR to TS 33.501 on the Protection of the RRC Resume Request message | Ericsson | noted |  |  |
| S3-233024 | Interim conclusions on KI#1 | vivo | noted |  |  |
| S3-233025 | Living document for 5G\_ProSe\_Ph2 | CATT | revised |  | S3-233374 |
| S3-233026 | Interim conclusions on KI#2 | vivo | noted |  |  |
| S3-233027 | Mega to clean up ENs | vivo | noted |  |  |
| S3-233028 | pCR to 33.884 - conclusions | NTT DOCOMO INC. | revised |  | S3-233274 |
| S3-233029 | pCR to 33.884 - TR cleanup | NTT DOCOMO INC. | revised |  | S3-233427 |
| S3-233030 | PCR to the living document for 5G\_ProSe\_Ph2-Model A discovery | CATT | merged |  | S3-233177 |
| S3-233031 | [MBS] Updates to solution#1 | Samsung, Nokia, Nokia Shanghai Bell | not treated |  |  |
| S3-233032 | [MBS] Evaluation for solution#3 | Samsung, Nokia, Nokia Shanghai Bell | not treated |  |  |
| S3-233033 | [draftCR] Adding a new security sevice operation provided by the UDM | Samsung | revised |  | S3-233218 |
| S3-233034 | [draft CR] Resolving EN on multiple AMF issue in HNTRA | Samsung | merged |  | S3-233217 |
| S3-233035 | Discussion on Resumecause protection | Samsung | revised |  | S3-233132 |
| S3-233036 | [draftCR] Protection of the RRC Resume Request message | Samsung | noted |  |  |
| S3-233037 | Living document for SERP: draftCR to TS 33.501 on the Protection of the RRC Resume Request message | Samsung | noted |  |  |
| S3-233038 | [draftCR] Living document for SEAL security for network domain interfaces | Samsung | approved |  | - |
| S3-233039 | Discussion on security for selective SCG activation | Samsung | noted |  |  |
| S3-233040 | Conclusion on KI #1 | Samsung, KT | not treated |  |  |
| S3-233041 | Conclusion on KI #5 | Samsung, KT | not treated |  |  |
| S3-233042 | Resolving EN on conclusion | Samsung | merged |  | S3-233274 |
| S3-233043 | Updates to sol#6 | Samsung | revised |  | S3-233324 |
| S3-233044 | [IAB][Rel-17] IAB inter-CU topology adaptation procedure | Samsung, Huawei, HiSilicon | revised |  | S3-233131 |
| S3-233045 | [IAB][Rel-18] IAB inter-CU topology adaptation procedure | Samsung, Huawei, HiSilicon | not pursued |  |  |
| S3-233046 | Updates to conclusion#2.1 | Samsung, Ericsson | merged |  | S3-233169 |
| S3-233047 | Updates to conclusion#2.2 | Samsung, Huawei, HiSilicon, Intel, CableLabs, China Unicom, ZTE, Thales, Lenovo, Hyundai Motor Company, InterDigital Communications, KT, Deutsche Telekom | approved |  |  |
| S3-233048 | [draft CR] ECS/EES side certificate-based authentication | Samsung | revised |  | S3-233168 |
| S3-233049 | Updates to evaluation of solution#28 | Samsung | not treated |  |  |
| S3-233050 | New solution for IP address verification | Samsung | revised |  | S3-233369 |
| S3-233051 | New solution for IP address verification using access token | Samsung | revised |  | S3-233370 |
| S3-233052 | Conclusion for key issue#2.7 | Samsung | not treated |  |  |
| S3-233053 | [draftCR] Informative annex for details of authentication method | Samsung | noted |  |  |
| S3-233054 | Reply LS on SCTP-AUTH and DTLS | Ericsson | revised |  | S3-233355 |
| S3-233055 | Updating Solution #9: Concealing length of SUPIs in SUCIs by padding the SUPIs | Ericsson | not treated |  |  |
| S3-233056 | Updating Evaluation of Solution #9: Concealing length of SUPIs in SUCIs by padding the SUPIs | Ericsson | not treated |  |  |
| S3-233057 | KI #1 Conclusion | Ericsson, Interdigital, Nokia, Nokia Shanghai Bell, Convida Wireless, CableLabs, NCSC, Telefonica, US NSA, Philips, Verizon Wireless and John Hopkins University | merged |  | S3-233186 |
| S3-233058 | New WID on 3GPP profiles for cryptographic algorithms and security protocols | Ericsson | noted |  |  |
| S3-233059 | Adding secure ESP algorithms | Ericsson | noted |  |  |
| S3-233060 | Removing text and note forbidding ESP dummy packets | Ericsson | not pursued |  |  |
| S3-233061 | Updates of obsoleted RFCs | Ericsson | not treated |  |  |
| S3-233062 | Updates to the IKEv2 profile | Ericsson | not pursued |  |  |
| S3-233063 | Remove keyEncipherment and KeyAgreement from TLS certificate profile | Ericsson | not pursued |  |  |
| S3-233064 | Remove keyEncipherment and KeyAgreement from TLS certificate profile | Ericsson | not pursued |  |  |
| S3-233065 | Remove keyEncipherment and KeyAgreement from TLS certificate profile | Ericsson | not pursued |  |  |
| S3-233066 | PCR to the living document for 5G\_ProSe\_Ph2-Model B discovery | CATT | revised |  | S3-233178 |
| S3-233067 | 5.3 - Update to Solution 32 | Philips International B.V. | not treated |  |  |
| S3-233068 | 5.3 - Update to Solution 37 | Philips International B.V. | not treated |  |  |
| S3-233069 | 5.3 - Conclusion to KI 1 | Philips International B.V. | not treated |  |  |
| S3-233070 | 5.19 - Update to Solution 20 | Philips International B.V. | not treated |  |  |
| S3-233071 | 5.19 - Conclusion KI 5 | Philips International B.V. | merged |  | S3-233231 |
| S3-233072 | 4.25 - Update to 5G UE-to-UE Relay Discovery (Clause 6.1.3.3.1) | Philips International B.V. | revised |  | S3-233176 |
| S3-233073 | 4.25 - Update to selection of security mechanism (Clause 6.6.3.3) | Philips International B.V. | merged |  | S3-233182 |
| S3-233074 | CR to TR33.503 Editorial changes | CATT | agreed |  |  |
| S3-233075 | CR to TR33.503 Define missing reference points | CATT | agreed |  |  |
| S3-233076 | 4.9.3 - Correction in clause 5.3.3.1.2.3 of TS 33.536 | Philips International B.V. | withdrawn |  |  |
| S3-233077 | New Solution to KI #2 | Ericsson | not treated |  |  |
| S3-233078 | Discussion paper on the purpose and requirements of Annex V TS 33.501 | Nanjing Ericsson Panda Com Ltd | noted |  |  |
| S3-233079 | pCR to TR33.848 - Update of Annex B | Vodafone GmbH | withdrawn |  |  |
| S3-233080 | Clarification of the intended usage and requirements for user consent framework Rel-17 | Ericsson | not pursued |  |  |
| S3-233081 | Clarification of the intended usage and requirements for user consent framework Rel-18 | Ericsson | not pursued |  |  |
| S3-233082 | Update to living document - Initial Trust | Ericsson | merged |  | S3-233191 |
| S3-233083 | A discussion paper on conclusions for KI #1: Privacy aspects of variable length user identifiers | InterDigital Communications, CableLabs, Convida Wireless, Ericsson, NCSC, Nokia, Philips, Telefonica, US National Security Agency, Verizon Wireless | not treated | S3-232510 |  |
| S3-233084 | TR cleanup | Nokia, Nokia Shanghai Bell | revised |  | S3-233288 |
| S3-233085 | Update to Tenet #7 | Lenovo, US National Security Agency, Telefonica | not treated |  |  |
| S3-233086 | Update to Tenet #6 | Lenovo, US National Security Agency, Telefonica | merged |  | S3-233320 |
| S3-233087 | Draft Reply LS on specification of the 256-bit air algorithms | THALES, Idemia | revised |  | S3-233212 |
| S3-233088 | Update to Tenet #5 | Lenovo, US National Security Agency, Telefonica | not treated |  |  |
| S3-233089 | New clause on actual tenets information | Lenovo, US National Security Agency, Telefonica | not treated |  |  |
| S3-233090 | Discussion on agreed threat scenarios and the need to collect data | Lenovo, US National Security Agency, Johns Hopkins University APL, Telefonica | noted |  |  |
| S3-233091 | Data collection for Security Monitoring | Lenovo, Charter Communications, US National Security Agency, Telefonica, Rakuten Mobile, Center for Internet Security, Cablelabs, Johns Hopkins University APL | revised |  | S3-233325 |
| S3-233092 | Conclusion to KI#1 | Lenovo, US National Security Agency, Telefonica, Nokia, Nokia Shanghai Bell | revised |  | S3-233326 |
| S3-233093 | Discussion on KI#4 solution analysis | Lenovo | noted |  |  |
| S3-233094 | Discussion on multiple registration in parallel | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-233095 | Add restriction on UE for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-233096 | Add restriction on 5GC for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-233097 | Discussin paper on control on NSSAA procedures for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-233098 | control on NSSAA procedures for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-233099 | LS to CT4 to clarify NSSAA procedure | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-233100 | conclusion for KI#3 network slice admission control | Nokia, Nokia Shanghai Bell | merged |  | S3-233358 |
| S3-233101 | Discussion on U2N discovery security procedure | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-233102 | Locate target DDNMF in U2N discovery security procdure | Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi | revised |  | S3-233377 |
| S3-233103 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell | not treated |  |  |
| S3-233104 | Discussion on separation of U2N discovery security procedure | Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi | noted |  |  |
| S3-233105 | Direct discovery security procdure | Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi | not pursued |  |  |
| S3-233106 | UE to Network Relay discovery security procdure | Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi | not pursued |  |  |
| S3-233107 | LS on Clarification of support for trusted non-3GPP technologies | Lenovo | noted |  |  |
| S3-233108 | Conclusion to KI#4 | Lenovo, Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-233109 | Missed changes in pCR | OPPO | approved |  |  |
| S3-233110 | PLMN ID in certificate | Nokia, Nokia Shanghai Bell | not pursued | S3-232615 |  |
| S3-233111 | clean up of TR 33.898 | OPPO | approved |  |  |
| S3-233112 | Presentation of TR 33.898 | OPPO | approved |  |  |
| S3-233113 | AF accessing 5GC assistance information in AI/ML | OPPO | not pursued |  |  |
| S3-233114 | Updates to A2X Direct Communication Security for DAA Service | Lenovo | merged |  | S3-233286 |
| S3-233115 | Conclusion for KI#5 | OPPO | not treated |  |  |
| S3-233116 | Updates to A2X Direct C2 Communication Security | Lenovo | merged |  | S3-233289 |
| S3-233117 | Correcting some references in TS 33.511 | Qualcomm Incorporated | agreed | S3-232545 |  |
| S3-233118 | Correcting some references in TS 33.926 | Qualcomm Incorporated | agreed | S3-232547 |  |
| S3-233119 | TS 33.256 EN Cleanup | Lenovo | revised |  | S3-233406 |
| S3-233120 | Discussion on UUAA determination | Lenovo | noted |  |  |
| S3-233121 | LS on UUAA Status Information availability for SMF\_Response to C4-230790 | Lenovo | noted |  |  |
| S3-233122 | Update to Solution #1 in ID Privacy | Lenovo | not treated |  |  |
| S3-233123 | Update to Solution #9 in eNA | Lenovo | revised |  | S3-233263 |
| S3-233124 | Update to Solution #20 in eNA | Lenovo | approved |  |  |
| S3-233125 | HONTRA Clarifications | Lenovo | merged |  | S3-233221 |
| S3-233126 | pCR to SNAAPPY CR | NTT DOCOMO INC. | revised |  | S3-233407 |
| S3-233127 | SNAAPPY CR baseliine | NTT DOCOMO INC. | revised |  | S3-233426 |
| S3-233128 | 4.9.3 - Correction in clause 5.3.3.1.2.3 of TS 33.536 | Philips International B.V. | noted |  |  |
| S3-233129 | Correcting some references in TS 33.926 | Qualcomm Incorporated | agreed | S3-232546 |  |
| S3-233130 | Clarification of RES\* verification failure handling | Federal Office for Information Security (BSI) | revised | S3-232454 | S3-233338 |
| S3-233131 | [IAB][Rel-17] IAB inter-CU topology adaptation procedure | Samsung, Huawei, HiSilicon | not pursued | S3-233044 |  |
| S3-233132 | Discussion on Resumecause protection | Samsung | noted | S3-233035 |  |
| S3-233133 | Clarification of invalid or unacceptable UE security capabilities handling | Federal Office for Information Security (BSI) | not treated | S3-232509 |  |
| S3-233134 | Clarification of Replay Protection of NAS signalling messages | Federal Office for Information Security (BSI) | not treated | S3-232456 |  |
| S3-233135 | Clarification of NAS integrity algorithm selection and use | Federal Office for Information Security (BSI) | not treated | S3-232504 |  |
| S3-233136 | ZTA approach: NF to NF Communication Access Control via PDP and PEP | MITRE Corporation | not treated |  |  |
| S3-233137 | Address Editor Note in Solution #16 Section 6.16.2.2.2.3 Certificate Validation | Google Inc., Cablelabs, Deutsche Telekom | approved |  |  |
| S3-233138 | SA3 meeting calendar | SA WG3 Chair | noted | S3-232305 | - |
| S3-233139 | Reply to: Reply LS on Security architecture for 5G multicast/broadcast services | Huawei | approved | - | - |
| S3-233140 | Reply LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service | Huawei, HiSilicon | approved | S3-232837 | - |
| S3-233141 | SERP status summary | Apple | noted | - | - |
| S3-233142 | Reply LS on ETSI MEC discussion on possible new requirements for AKMA framework | China Mobile | approved | S3-232928 | - |
| S3-233143 | LS on Authorization of NF service consumers for data access via DCCF | Nokia, Nokia Shanghai Bell | approved | S3-232537 | - |
| S3-233144 | Reply LS to Reply LS on the user consent for trace reporting S3-223162 | Ericsson | noted | S3-232805 | - |
| S3-233145 | LS on clarifitcation to the UPU header handling | Qualcomm | approved | - | - |
| S3-233146 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell, | agreed | S3-232523 | - |
| S3-233147 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell, | agreed | S3-232524 | - |
| S3-233148 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell | agreed | S3-232525 | - |
| S3-233149 | Correction of procedures for N3GPP trusted access | Ericsson | agreed | S3-232889 | - |
| S3-233150 | Correction of procedures for N3GPP trusted access | Ericsson | agreed | S3-232890 | - |
| S3-233151 | Correction of procedures for N3GPP trusted access | Ericsson | agreed | S3-232891 | - |
| S3-233152 | Handling of SOR counter and the UE parameter update counter if stored in NVM | Nokia, Nokia Shanghai Bell | noted | S3-232528 | - |
| S3-233153 | Clause 4.3 updates for MnF SCAS | Huawei, HiSilicon | approved | S3-232759 | - |
| S3-233154 | Authorization of NF service consumers for data access via DCCF | Nokia, Nokia Shanghai Bell | agreed | S3-232852 | - |
| S3-233155 | Authorization of NF service consumers for data access via DCCF | Nokia Poland | agreed | S3-232871 | - |
| S3-233156 | pCR to TR33.848 - Addition of evaluation for Solution #1 | Vodafone GmbH | noted | S3-232875 | - |
| S3-233157 | pCR to TR33.848 - Addition of evaluation for Solution #2 | Vodafone GmbH | approved | S3-232876 | - |
| S3-233158 | pCR to TR33.848 - Addition of evaluation for Solution #3 | Vodafone GmbH | approved | S3-232877 | - |
| S3-233159 | pCR to TR33.848 - Addition of evaluation for Solution #4 | Vodafone GmbH | noted | S3-232880 | - |
| S3-233160 | pCR to TR33.848 - Addition of evaluation for Solution #5 | Vodafone GmbH | noted | S3-232882 | - |
| S3-233161 | pCR to TR33.848 - Addition of evaluation for Solution #6 | Vodafone GmbH | noted | S3-232884 | - |
| S3-233162 | pCR to TR33.848 - Addition of evaluation for Solution #7 | Vodafone GmbH | approved | S3-232912 | - |
| S3-233163 | pCR to TR33.848 - Addition of evaluation for Solution #8 | Vodafone GmbH | approved | S3-232913 | - |
| S3-233164 | Cover Sheet for TR 33.848 - For Information | Vodafone GmbH | withdrawn | - | - |
| S3-233165 | CR on control-plane procedure in MBS | Huawei, HiSilicon | agreed | S3-232690 | - |
| S3-233166 | CR on control-plane procedure in MBS | Huawei, HiSilicon | agreed | S3-232691 | - |
| S3-233167 | Conclusion for KI#2 | Ericsson | approved | S3-232674 | - |
| S3-233168 | [draft CR] ECS/EES side certificate-based authentication | Samsung | approved | S3-233048 | - |
| S3-233169 | Resolving EN of in Conclusions for Key Issue#2.1 | Huawei, HiSilicon | approved | S3-232835 | - |
| S3-233170 | PCF-specific security requirements and related test cases for draft TS 33.528 | BSI (DE) | approved | S3-232416 | - |
| S3-233171 | Authentication and Authorization between V-ECS and H-ECS | Huawei, HiSilicon | approved | S3-232786 | - |
| S3-233172 | Security for EAS discovery procedure via V-EASDF | Huawei, HiSilicon | approved | S3-232787 | - |
| S3-233173 | EEC authentication and authentication method negotiation | Ericsson | not pursued | S3-232859 | - |
| S3-233174 | Clarification on GPSI verification | Huawei, HiSilicon | approved | S3-232836 | - |
| S3-233175 | Update scope to 5G\_ProSe\_Ph2 living doc | ZTE Corporation | approved | S3-232645 | - |
| S3-233176 | 4.25 - Update to 5G UE-to-UE Relay Discovery (Clause 6.1.3.3.1) | Philips International B.V. | approved | S3-233072 | - |
| S3-233177 | Adding security procedure for U2U relay discovery with model A in ProSe draft CR | Qualcomm Incorporated | approved | S3-232569 | - |
| S3-233178 | PCR to the living document for 5G\_ProSe\_Ph2-Model B discovery | CATT | approved | S3-233066 | - |
| S3-233179 | Emergency service via Layer 2 and Layer 3 UE-to-network relay | Ericsson | approved | S3-232682 | - |
| S3-233180 | Security requirement for UE-to-UE Relay communication | Beijing Xiaomi Mobile Software | approved | S3-232976 | - |
| S3-233181 | Security procedures for Layer-3 UE-to-UE Relay without network assistance | Huawei, HiSilicon | approved | S3-232723 | - |
| S3-233182 | Selection methods between security mechanisms with or without network assistance | China Telecommunications | noted | S3-232605 | - |
| S3-233183 | Security procedures for 5G ProSe Layer-2 UE-to-UE Relay | Huawei, HiSilicon | approved | S3-232724 | - |
| S3-233184 | Naming alignment for 5GPRUK and deleting redundant EN | InterDigital, Inc. | approved | S3-232490 | - |
| S3-233185 | Fix the restricted discovery procedures in 5G ProSe | Huawei, HiSilicon | agreed | S3-232793 | - |
| S3-233186 | pCR: Conclusion for KI#1 | Qualcomm Incorporated, Huawei, HiSilicon | approved | S3-232586 | - |
| S3-233187 | Evaluation of Solution #16, ACME, for Automated Certificate Management in SBA | Cisco Systems, Google, Telefonica, Charter Communications, AT&T, CableLabs | approved | S3-232408 | - |
| S3-233188 | KI#6 Sol#7 EN resolution and evaluation | Ericsson | approved | S3-232824 | - |
| S3-233189 | draft TR 33.876 | Nokia | approved | - | - |
| S3-233190 | pCR to ACM\_SBA living doc\_Certificate enrolment and renewal for 5GC NFs | Nokia, Nokia Shanghai Bell | approved | S3-232518 | - |
| S3-233191 | pCR to ACM\_SBA living doc\_Set up of initial trust | Nokia, Nokia Shanghai Bell | noted | S3-232517 | - |
| S3-233192 | pCR to ACM\_SBA living doc\_Validation of usage of X.509 certificate | Nokia, Nokia Shanghai Bell | approved | S3-232516 | - |
| S3-233193 | Interface Robustness | Nokia, Nokia Shanghai Bell | agreed | S3-232410 | - |
| S3-233194 | Security Event Logging | Nokia, Nokia Shanghai Bell | agreed | S3-232411 | - |
| S3-233195 | Privileged Users | Nokia, Nokia Shanghai Bell | agreed | S3-232412 | - |
| S3-233196 | draft TR 33.883 | Huawei | approved | - | - |
| S3-233197 | Draft TR 33.739 | Huawei | approved | - | - |
| S3-233198 | Living document to TS 33.503 for Prose Secondary Authentication | InterDigital, Inc. | approved | S3-232488 | - |
| S3-233199 | Draft TS 33.526 | Huawei | approved | - | - |
| S3-233200 | LS on Security Solution for Selective SCG | Nokia, Nokia Shanghai Bell | approved | S3-232422 | - |
| S3-233201 | Clause 4.2.2 updates for MnF SCAS | Huawei, HiSilicon | approved | S3-232779 | - |
| S3-233202 | draft TS 33.527 | China Mobile | approved | - | - |
| S3-233203 | Adding critical assest and threats of AAnF | China Mobile | agreed | S3-232929 | - |
| S3-233204 | Clarification of NSSAA revocation | Federal Office for Information Security (BSI) | agreed | S3-232461 | - |
| S3-233205 | New SCAS test on valid UE security capability encoding while AS security establishment | Federal Office for Information Security (BSI) | agreed | S3-232467 | - |
| S3-233206 | Threat reference for incorrectly encoded UE 5G security capabilities on the AMF NG interface | Federal Office for Information Security (BSI) | agreed | S3-232469 | - |
| S3-233207 | Clarification of privilege escalation methods to check for | Federal Office for Information Security (BSI) | agreed | S3-232474 | - |
| S3-233208 | Clarification of synchronization failure handling | BSI (DE) | agreed | S3-232476 | - |
| S3-233209 | Draft TS 33.528 | BSI | approved | - | - |
| S3-233210 | Draft TR 33.893 | Xiaomi | approved | - | - |
| S3-233211 | SCAS updates to threats and assets for Release 17 features | Huawei, HiSilicon | agreed | - | - |
| S3-233212 | Draft Reply LS on specification of the 256-bit air algorithms | THALES, Idemia | approved | S3-233087 | - |
| S3-233213 | Cover page TR 33.809 | Apple | approved | - | - |
| S3-233214 | Detail agenda planning for SA3#111 | SA WG3 Chair | noted | S3-232304 | - |
| S3-233215 | Clarification on access token requests for NF Producers of a specific NF type and token-based authorization for indirect communication with delegated discovery | Ericsson | withdrawn | - | - |
| S3-233216 | EN removal for optional supporting of HONTRA in 5GC | ZTE Corporation | approved | S3-232632 | - |
| S3-233217 | HONTRA clarifications | Ericsson | approved | S3-233016 | - |
| S3-233218 | [draftCR] Adding a new security sevice operation provided by the UDM | Samsung | approved | S3-233033 | - |
| S3-233219 | Resolving the AKMA EN in the HONTRA draft CR | Qualcomm Incorporated | noted | S3-232560 | - |
| S3-233220 | Access token request handling by NRF | Nokia, Nokia Shanghai Bell | approved | S3-232607 | - |
| S3-233221 | Living document for HONTRA CR to TS33.535 | Huawei, HiSilicon | approved | S3-232744 | - |
| S3-233222 | Living document of HONTRA to TS 33.501 | Huawei, HiSilicon | approved | S3-232746 | - |
| S3-233223 | updating interworking usecase | Huawei, HiSilicon | approved | S3-232751 | - |
| S3-233224 | Updating the SoR/UPU counter text in HONTRA draft CR | Qualcomm Incorporated | approved | S3-232559 | - |
| S3-233225 | 33.893: Conclusions on Client UE Authorization for Key Issue #2 | Xiaomi Technology | approved | S3-232956 | - |
| S3-233226 | 33.893: Conclusions on Privacy during Discovery for Key Issue #1 | Xiaomi Technology | approved | S3-232954 | - |
| S3-233227 | 33.893: Conclusions on Non-Trackability for Key Issue #1 | Xiaomi Technology | approved | S3-232955 | - |
| S3-233228 | Update on solution #9 | Qualcomm Incorporated | approved | S3-232579 | - |
| S3-233229 | New solution for Discovery security material and SL session root key provisioning for Ranging/SL Positioning UE discovery | Ericsson | approved | S3-232807 | - |
| S3-233230 | Update of a conclusion for KI #3 | Qualcomm Incorporated | approved | S3-232576 | - |
| S3-233231 | 33.893: Conclusions on Key Issue #5 | Xiaomi Technology | noted | S3-232960 | - |
| S3-233232 | Fix the restricted discovery procedures in LTE ProSe R17 | Huawei, HiSilicon | agreed | S3-232802 | - |
| S3-233233 | Exception sheet for ACM\_SBA | Nokia | agreed | - | - |
| S3-233234 | Cover sheet TS 33.526 | Huawei | approved | - | - |
| S3-233235 | Resolution of EN – conclusion to KI#1 – Trusted access | Nokia, Nokia Shanghai Bell, Lenovo, Intel | approved | S3-232829 | - |
| S3-233236 | Clean up of TR 33.858 | Ericsson | approved | S3-232910 | - |
| S3-233237 | Draft TR 33.858 | Ericsson | approved | - | - |
| S3-233238 | Updates to eNB SCAS for the support of UP IP | Huawei, HiSilicon | agreed | - | - |
| S3-233239 | SCAS updates to the general catalogue for Release 17 features | Huawei, HiSilicon | agreed | - | - |
| S3-233240 | Update to living document - Untrusted non-3GPP access | Ericsson | approved | S3-232898 | - |
| S3-233241 | Clarification on SCAS | Huawei, HiSilicon | agreed | - | - |
| S3-233242 | Update to living document - (Option 2) Trusted non-3GPP access | Ericsson | approved | S3-232900 | - |
| S3-233243 | pCR: NSWO support in SNPN using CH with AAA server | Qualcomm Incorporated | approved | S3-232587 | - |
| S3-233244 | New SCAS test on trust anchoring | Federal Office for Information Security (BSI) | agreed | S3-232419 | - |
| S3-233245 | Update to living document - NSWO access to SNPN | Ericsson | noted | S3-232902 | - |
| S3-233246 | Update to living document - Access to SNPN services for N5CW devices | Ericsson | approved | S3-232901 | - |
| S3-233247 | Informative description of authentication for localised services | Nokia, Nokia Shanghai Bell | approved | S3-232830 | - |
| S3-233248 | Living document for eNPN\_Ph2 (Security aspects of enhanced support of Non-Public Networks phase 2) | Ericsson | approved | S3-232418 | - |
| S3-233249 | Resolution of ENs of KI#1 conclusion in eNA\_SEC\_Ph3 | Nokia | approved | S3-232533 | - |
| S3-233250 | Update to conclusion on KI#2 | China Telecommunications | approved | S3-232502 | - |
| S3-233251 | Resolution of EN in the conclusion for KI#3 "Security for AI/ML model storage and sharing" | Ericsson, Nokia, Intel | approved | S3-232905 | - |
| S3-233252 | SCAS release reference corrections | Huawei, HiSilicon | agreed | S3-232761 | - |
| S3-233253 | SCAS release reference corrections | Huawei, HiSilicon | agreed | S3-232762 | - |
| S3-233254 | SCAS release reference corrections | Huawei, HiSilicon | agreed | S3-232764 | - |
| S3-233255 | SCAS release reference corrections | Huawei, HiSilicon | agreed | S3-232766 | - |
| S3-233256 | SCAS release reference corrections | Huawei, HiSilicon | agreed | S3-232768 | - |
| S3-233257 | SCAS release reference corrections | Huawei, HiSilicon | agreed | S3-232769 | - |
| S3-233258 | SCAS release reference corrections | Huawei, HiSilicon | agreed | S3-232770 | - |
| S3-233259 | SCAS release reference corrections | Huawei, HiSilicon | agreed | S3-232771 | - |
| S3-233260 | SCAS release reference corrections | Huawei, HiSilicon | agreed | S3-232772 | - |
| S3-233261 | SCAS release reference corrections to living doc to TS 33.511 | Huawei, HiSilicon | approved | S3-232780 | - |
| S3-233262 | Conclusion for abnormal NF detection | Huawei, HiSilicon | approved | S3-232707 | - |
| S3-233263 | Update to Solution #9 in eNA | Lenovo | approved | S3-233123 | - |
| S3-233264 | Draft TR 33.738 | China Mobile | approved | - | - |
| S3-233265 | Conclusion for key issue #6 | China Mobile | approved | S3-232936 | - |
| S3-233266 | living CR for eNA | China Mobile | approved | S3-232939 | - |
| S3-233267 | pCR on Living draft CR WID eNA\_Ph3\_FL\_Authorization | Nokia, Nokia Shanghai Bell | approved | S3-232536 | - |
| S3-233268 | Security for AI/ML model storage and sharing | Ericsson | approved | S3-232897 | - |
| S3-233269 | Living document for ACM\_SBA (Automated Certificate Management in SBA) | Nokia, Nokia Shanghai Bell | approved | S3-232423 | - |
| S3-233270 | Living document for GBA DTLS to TS 33.220 | ZTE Corporation | approved | S3-232624 | - |
| S3-233271 | Living document for AKMA DTLS to TS 33.535 | ZTE Corporation | approved | S3-232625 | - |
| S3-233272 | CR on N3IWF and TNGF relocation | Huawei, HiSilicon | agreed | S3-232739 | - |
| S3-233273 | Cover sheet for presentation of TR 33.882 to TSG-SA#100 | vivo | approved | S3-233008 | - |
| S3-233274 | pCR to 33.884 - conclusions | NTT DOCOMO INC. | approved | S3-233028 | - |
| S3-233275 | Conclusion for KI#1 | ZTE Corporation | approved | S3-232647 | - |
| S3-233276 | Clarification of the scope | China Mobile | approved | S3-232930 | - |
| S3-233277 | Draft TR 33.737 | China Mobile | approved | - | - |
| S3-233278 | AKMA roaming requirements | Huawei, HiSilicon | approved | S3-232741 | - |
| S3-233279 | Draft TR 33.887 | Nokia | approved | - | - |
| S3-233280 | Update solution#11 | Huawei, HiSilicon | approved | S3-232738 | - |
| S3-233281 | AKMA AP | China Mobile | approved | S3-232933 | - |
| S3-233282 | Proposed text for A2X security parts of UAS living document | Qualcomm Incorporated | approved | S3-232553 | - |
| S3-233283 | Adding evaluation for Sol#26 | InterDigital Communications | approved | S3-232478 | - |
| S3-233284 | Add the background on A2X Direct Communication-5.x.1 | China Mobile | approved | S3-232926 | - |
| S3-233285 | Security and privacy for Remote ID Broadcast communication | Huawei, HiSilicon | approved | S3-232719 | - |
| S3-233286 | Proposed text for the Direct Detect and Avoid part of UAS living document | Qualcomm Incorporated | approved | S3-232555 | - |
| S3-233287 | HNTRA procedure alignment | Nokia, Nokia Shanghai Bell | approved | S3-232493 | - |
| S3-233288 | TR cleanup | Nokia, Nokia Shanghai Bell | approved | S3-233084 | - |
| S3-233289 | Proposed text for the Direct C2 Communication part of UAS living document | Qualcomm Incorporated | approved | S3-232556 | - |
| S3-233290 | CR to TS 33.501, 5WWC, Authentication of AUN3 devices behind RG | CableLabs, Charter Communications, Rogers Communications | agreed | S3-232603 | - |
| S3-233291 | Revised WID on Automated certificate management in SBA | Nokia, Nokia Shanghai Bell | agreed | S3-232519 | - |
| S3-233292 | New WID on security enhancements for MBS Phase 2 | Huawei, HiSilicon | agreed | S3-232697 | - |
| S3-233293 | User Consent for Roaming in eNA | Huawei, HiSilicon | agreed | S3-232703 | - |
| S3-233294 | Add security aspect of SEAL Data Delivery enabler | Huawei, HiSilicon, China Mobile, Samsung | agreed | S3-232727 | - |
| S3-233295 | New WID for security of SEAL Data Delivery enabler | Huawei, HiSilicon, China Mobile, Samsung | agreed | S3-232726 | - |
| S3-233296 | Revised WID on Security Aspects of Ranging Based Services and Sidelink Positioning | Xiaomi Technology | agreed | S3-232961 | - |
| S3-233297 | Conclusion for key issue #1 | Huawei, HiSilicon | approved | S3-232846 | - |
| S3-233298 | living CR for RTC | Huawei, HiSilicon | approved | S3-232847 | - |
| S3-233299 | Security aspects of SBA in IMS media control interface | Huawei, HiSilicon | approved | S3-232848 | - |
| S3-233300 | Cleanups for RTC | Huawei, HiSilicon | approved | S3-232850 | - |
| S3-233301 | Draft TR 33.890 | Huawei | approved | - | - |
| S3-233302 | Presentation of TR33.890 to TSG for information and approval | Huawei | approved | - | - |
| S3-233303 | Resolving EN in solution #27 | Ericsson | approved | S3-232854 | - |
| S3-233304 | Resolving EN in solution #6 | Ericsson | approved | S3-232863 | - |
| S3-233305 | New solution on attestation at 3GPP application layer | Huawei, HiSilicon | noted | S3-232845 | - |
| S3-233306 | pCR to TR33.848 - Addition of Conclusions and Recommendations | Vodafone GmbH | noted | S3-232915 | - |
| S3-233307 | Living document for GBA DTLS to TS 33.220 | ZTE Corporation | revised | - | S3-233379 |
| S3-233308 | Ls on further input to address GSMA LS on requirements for intermediaries in the roaming ecosystem (S323244) | Nokia | approved | - | - |
| S3-233309 | 33.533: Update to the Scope | Xiaomi Technology | approved | S3-232962 | - |
| S3-233310 | 33.533: Overview of security architecture | Beijing Xiaomi Mobile Software | approved | S3-232963 | - |
| S3-233311 | Draft TS 33.533 | Xiaomi | approved | - | - |
| S3-233312 | Authorization for application server and 5GC NF in Ranging/SL Positioning service exposure, | Huawei, HiSilicon | approved | S3-232694 | - |
| S3-233313 | 33.533: Authorization Requirements for Ranging/SL Positioning Services | Xiaomi Technology | approved | S3-232966 | - |
| S3-233314 | 33.533: Security Requirements and Procedure for Discovery | Xiaomi Technology | approved | S3-232964 | - |
| S3-233315 | 33.533: Security Requirements and Procedures for Unicast Communication | Xiaomi Technology | approved | S3-232969 | - |
| S3-233316 | 33.700-28: Update to Conclusion on Key Issue #1 | Xiaomi Technology | approved | S3-232971 | - |
| S3-233317 | Draft TR 33.700-28 | Xiaomi | approved | - | - |
| S3-233318 | Draft TR 33.896 | Huawei | approved | - | - |
| S3-233319 | Cover sheet TR 33.896 | Huawei | approved | - | - |
| S3-233320 | Additions to evaluation of tenet 6 | Huawei, HiSilicon | approved | S3-232777 | - |
| S3-233321 | Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks | Qualcomm Incorporated | approved | S3-232561 | - |
| S3-233322 | LS to SA2 on clarification on removal of the indicator of UUAA result from AMF | China Mobile | approved | - | - |
| S3-233323 | Reply LS on security for L2 UE-to-UE relay | Lenovo | approved | S3-232867 | - |
| S3-233324 | Updates to sol#6 | Samsung | approved | S3-233043 | - |
| S3-233325 | Data collection for Security Monitoring | Lenovo, Charter Communications, US National Security Agency, Telefonica, Rakuten Mobile, Center for Internet Security, Cablelabs, Johns Hopkins University APL | noted | S3-233091 | - |
| S3-233326 | Conclusion to KI#1 | Lenovo, US National Security Agency, Telefonica, Nokia, Nokia Shanghai Bell | noted | S3-233092 | - |
| S3-233327 | SEAL security for network domain interfaces | Samsung | agreed | - | - |
| S3-233328 | 5GFBS - Conclusion | Apple | approved | S3-232818 | - |
| S3-233329 | Clarification to the UPU procedures | Qualcomm Incorporated,Nokia | agreed | S3-232549 | - |
| S3-233330 | Robustness interfaces and protocols defined for split-gNB | Keysight Technologies UK Ltd | approved | S3-232438 | - |
| S3-233331 | Removal of release specific aspects from TS 33.523 | Qualcomm Incorporated | approved | S3-232541 | - |
| S3-233332 | Draft TS 33.523 | Qualcomm | approved | - | - |
| S3-233333 | Correction of format of evidence | Federal Office for Information Security (BSI) | agreed | S3-232506 | - |
| S3-233334 | Correction of Tester Instructions in Expected Results | Federal Office for Information Security (BSI) | agreed | S3-232508 | - |
| S3-233335 | Correction of SBA test for UPF | Huawei, Hisilicon | agreed | S3-232843 | - |
| S3-233336 | adding description about security requirements of Traffic separation to clause 4.3 | China Mobile | approved | S3-232917 | - |
| S3-233337 | correction of SBA test for UPF-r17 | Huawei, HiSilicon | agreed | S3-232844 | - |
| S3-233338 | Clarification of RES\* verification failure handling | Federal Office for Information Security (BSI) | agreed | S3-233130 | - |
| S3-233339 | Living doc for SCAS gNB | Keysight Technologies UK Ltd | approved | S3-232432 | - |
| S3-233340 | Robustness interfaces and protocols defined for gNodeB | Keysight Technologies UK Ltd | approved | S3-232434 | - |
| S3-233341 | Security for EAS discovery in non-roaming case | Huawei, HiSilicon | agreed | S3-232789 | - |
| S3-233342 | Security for EAS discovery in non-roaming case | Huawei, HiSilicon | agreed | S3-232790 | - |
| S3-233343 | Clarification on data-type encryption policy | Huawei, HiSilicon | agreed | S3-232838 | - |
| S3-233344 | New solution for EEC provided IP address verification | Huawei, HiSilicon | approved | S3-232784 | - |
| S3-233345 | Clarification of whether tester triggers an event or NF behaviour is observed in an Execution Step | BSI (DE) | agreed | S3-232466 | - |
| S3-233346 | Clarification of hashing | Federal Office for Information Security (BSI) | agreed | S3-232471 | - |
| S3-233347 | Clarification of privilege verification | Federal Office for Information Security (BSI) | agreed | S3-232475 | - |
| S3-233348 | Clarification of test applicability | Federal Office for Information Security (BSI) | agreed | S3-232505 | - |
| S3-233349 | Discussion on roaming requirements collection | Nokia | endorsed | - | - |
| S3-233350 | CAPF 33.122 Vendor specific Security Methods | Nokia, Nokia Shanghai Bell, Intel, Samsung | agreed | S3-232604 | - |
| S3-233351 | LS on NFc registration using OAM | Nokia, Nokia Shanghai Bell | approved | S3-232606 | - |
| S3-233352 | Access token request handling by NRF | Nokia, Nokia Shanghai Bell | agreed | - | - |
| S3-233353 | Security of CPAC | Huawei, HiSilicon | agreed | S3-232800 | - |
| S3-233354 | Security of CPAC | Huawei, HiSilicon | agreed | S3-232801 | - |
| S3-233355 | Reply LS on SCTP-AUTH and DTLS | Ericsson | approved | S3-233054 | - |
| S3-233356 | Address ENs for solution #1 | Huawei, HiSilicon | approved | S3-232712 | - |
| S3-233357 | conclusions to KI#2 | Huawei, HiSilicon | approved | S3-232655 | - |
| S3-233358 | conclusions to KI#3 | Huawei, HiSilicon | approved | S3-232657 | - |
| S3-233359 | Evaluation to solution#1 | Huawei, HiSilicon | approved | S3-232656 | - |
| S3-233360 | Add evaluation to sol #3 of TR 33.886 | Xiaomi communications | approved | S3-232989 | - |
| S3-233361 | new solution to KI#2 | Huawei, HiSilicon | noted | S3-232654 | - |
| S3-233362 | pCR: Evaluation of Solution #1 | Qualcomm Incorporated | withdrawn | - | - |
| S3-233363 | Draft TR33.877 | Ericsson | approved | - | - |
| S3-233364 | Cover sheet TR 33.883 | Huawei | approved | - | - |
| S3-233365 | Draft TR 33.898 | Huawei | approved | - | - |
| S3-233366 | A solution for EEC IP address verification | InterDigital Communications | approved | S3-232480 | - |
| S3-233367 | KI#2.7, new sol on AKMAGBA based IP address verification | Xiaomi communications | approved | S3-232983 | - |
| S3-233368 | KI#2.7, new sol on KDF based IP verification | Xiaomi communications | approved | S3-232984 | - |
| S3-233369 | New solution for IP address verification | Samsung | approved | S3-233050 | - |
| S3-233370 | New solution for IP address verification using access token | Samsung | approved | S3-233051 | - |
| S3-233371 | Living CR of EDGE\_Ph2 on TS 33.558 | Huawei, HiSilicon | approved | S3-232841 | - |
| S3-233372 | Living CR of EDGE\_Ph2 on TS\_33.501 | Huawei, HiSilicon | approved | S3-232842 | - |
| S3-233373 | Security procedures for Layer-3 UE-to-UE Relay with network assistance | Huawei, HiSilicon | approved | S3-232722 | - |
| S3-233374 | Living document for 5G\_ProSe\_Ph2 | CATT | approved | S3-233025 | - |
| S3-233375 | pCR to GBA OSCORE living doc: Clarifications | Ericsson | approved | S3-233013 | - |
| S3-233376 | Rel17 Clarification on AF authorization for the NSACF notification procedure | Ericsson | agreed | S3-233019 | - |
| S3-233377 | Locate target DDNMF in U2N discovery security procdure | Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi | agreed | S3-233102 | - |
| S3-233378 | Draft TR 33.870 | Interdigital | approved | - | - |
| S3-233379 | Add a new Annex about GBA Ua protocol based on DTLS to TS 33.220 | ZTE Corporation | agreed | S3-233307 | - |
| S3-233380 | Rel18 Clarification on AF authorization for the NSACF notification procedure | Ericsson | agreed | S3-233021 | - |
| S3-233381 | Resolving ENs in Solution #13 | Ericsson | approved | S3-232906 | - |
| S3-233382 | Draft TR 33.884 | NTT-Docomo | approved | - | - |
| S3-233383 | Living document for AKMA ph2 WID | China Mobile | approved | S3-232934 | - |
| S3-233384 | Draft TR 33.848 | Vodafone | withdrawn | - | - |
| S3-233385 | Draft TR 33.886 | Huawei | approved | - | - |
| S3-233386 | General description of protection of data and analytics exchange in roaming case | China Mobile | approved | S3-232940 | - |
| S3-233387 | protection of analytics exchange in roaming case | China Mobile | noted | S3-232941 | - |
| S3-233388 | Clarification to the UPU procedures | Qualcomm Incorporated | agreed | S3-232550 | - |
| S3-233389 | Clarification to the UPU procedures | Qualcomm Incorporated | agreed | - | - |
| S3-233390 | Clarification to the UPU procedures | Qualcomm Incorporated | agreed | - | - |
| S3-233391 | Living doc to SCAS UPF | Keysight Technologies UK Ltd | approved | S3-232431 | - |
| S3-233392 | Changes for SCAS UPF for Rel18 | Keysight Technologies UK Ltd | agreed | - | - |
| S3-233393 | Cover sheet TR 33.877 | Ericsson | approved | - | - |
| S3-233394 | 33.893: Resolve the Editor’s Note in Solution #16 | Xiaomi Technology | approved | S3-232952 | - |
| S3-233395 | 33.893: Resolve the Editor’s Note in Solution #17 | Xiaomi Technology | approved | S3-232953 | - |
| S3-233396 | 33.893: Further Conclusions UE Role Authorization for Key Issue #2 | Xiaomi Technology | approved | S3-232957 | - |
| S3-233397 | 33.893: Further Conclusions on Key Issue #4 | Xiaomi Technology | approved | S3-232959 | - |
| S3-233398 | Authorization for UE in Ranging/SL Positioning service exposure, | Huawei, HiSilicon | approved | S3-232695 | - |
| S3-233399 | Cover sheet TR 33.886 | Huawei | approved | - | - |
| S3-233400 | Cover sheet TR 33.893 | Xiaomi | approved | - | - |
| S3-233401 | Cover sheet TR 33.700-28 | Xiaomi | approved | - | - |
| S3-233402 | Solution using credential holder AAA for NSWO via 5GC | CableLabs, Charter Communications | approved | S3-232618 | - |
| S3-233403 | Delete Editor's Note to sol#18 | Huawei, HiSilicon | approved | S3-232735 | - |
| S3-233404 | Updated conclusion of KI#2 Authentication for UE access to hosting network | Ericsson | approved | S3-232909 | - |
| S3-233405 | AKMA ph2 security enhancement | China Mobile | agreed | - | - |
| S3-233406 | TS 33.256 EN Cleanup | Lenovo,Huawei | agreed | S3-233119 | - |
| S3-233407 | pCR to SNAAPPY CR | NTT DOCOMO INC. | approved | S3-233126 | - |
| S3-233408 | Cover sheet TR 33.740 | CATT | approved | - | - |
| S3-233409 | Draft TR 33.882 | Vivo | approved | - | - |
| S3-233410 | Reply to: LS on Clarification on KMS provisioning | Samsung | approved | - | - |
| S3-233411 | Robustness interfaces and protocols defined for UPF | Keysight Technologies UK Ltd | approved | S3-232435 | - |
| S3-233412 | Robustness interfaces and protocols defined for AAnF | Keysight Technologies UK Ltd | agreed | S3-232440 | - |
| S3-233413 | Robustness interfaces and protocols defined for AMF | Keysight Technologies UK Ltd | agreed | S3-232441 | - |
| S3-233414 | Robustness interfaces and protocols defined for AUSF | Keysight Technologies UK Ltd | agreed | S3-232442 | - |
| S3-233415 | Robustness interfaces and protocols defined for N3IWF | Keysight Technologies UK Ltd | approved | S3-232443 | - |
| S3-233416 | Robustness interfaces and protocols defined for NEF | Keysight Technologies UK Ltd | agreed | S3-232444 | - |
| S3-233417 | Robustness interfaces and protocols defined for NRF | Keysight Technologies UK Ltd | agreed | S3-232445 | - |
| S3-233418 | Robustness interfaces and protocols defined for NWDAF | Keysight Technologies UK Ltd | agreed | S3-232447 | - |
| S3-233419 | Robustness interfaces and protocols defined for SCP | Keysight Technologies UK Ltd | agreed | S3-232448 | - |
| S3-233420 | Robustness interfaces and protocols defined for SEPP | Keysight Technologies UK Ltd | agreed | S3-232449 | - |
| S3-233421 | Robustness interfaces and protocols defined for SMF | Keysight Technologies UK Ltd | agreed | S3-232450 | - |
| S3-233422 | Robustness interfaces and protocols defined for UDM | Keysight Technologies UK Ltd | agreed | S3-232451 | - |
| S3-233423 | Living document for AKMA\_GBA\_OSCORE: draftCR to TS 33.220, IETF OSCORE as GBA Ua protocol | Ericsson | approved | S3-233012 | - |
| S3-233424 | Robustness interfaces and protocols defined for PCF | Keysight Technologies UK Ltd | approved | S3-232437 | - |
| S3-233425 | Living document for UAS draft CR | Qualcomm Incorporated | approved | S3-232552 | - |
| S3-233426 | SNAAPPY CR baseline | NTT DOCOMO INC. | approved | S3-233127 | - |
| S3-233427 | pCR to 33.884 - TR cleanup | NTT DOCOMO INC. | approved | S3-233029 | - |
| S3-233428 | Cover sheet TR 33.884 | NTT\_Docomo | approved | - | - |
| S3-233429 | Exception sheet eNA\_Ph3\_SEC | China Mobile | agreed | - | - |
| S3-233430 | Exception sheet 5G\_ProSe\_Ph2 | CATT | agreed | - | - |
| S3-233431 | Exception sheet for security enhancements for MBS Phase 2 | Huawei | agreed | - | - |
| S3-233432 | Exception sheet AKMA\_GBA\_OSCORE | Ericsson | agreed | - | - |
| S3-233433 | Conclusions to KI#1 | Nokia, Nokia Shanghai Bell | approved | S3-232831 | - |
| S3-233434 | Exception sheet EDGE\_Ph2 | Huawei | agreed | - | - |
| S3-233435 | exception sheet NG\_RTC\_SEC | Huawei | agreed | - | - |
| S3-233436 | Presentation of TR 33.738 to TSG for approval | China Mobile | approved | S3-232938 | - |
| S3-233437 | Exception sheet SNAAPY | NTT-Docomo | agreed | - | - |
| S3-233438 | Reply LS on security aspects for Ranging/Sidelink Positioning | Huawei, HiSilicon | approved | S3-232696 | - |
| S3-233439 | Reply LS on security architecture for 5G multicast–broadcast services | Huawei, HiSilicon | approved | S3-232689 | - |
| S3-233440 | Introducing Home Trigger primary authentication procedure | Huawei, HiSilicon | agreed | - | - |
| S3-233441 | KAKMA re-keying relaed to HONTRA | Huawei, HiSilicon | agreed | - | - |
| S3-233442 | Exception sheet Prosesa | Interdigital | agreed | - | - |
| S3-233443 | Exception sheet eNPN\_Ph2 | Ericsson | agreed | - | - |
| S3-233444 | Security aspects of enhanced support of Non-Public Networks phase 2 | Ericsson | agreed | - | - |
| S3-233445 | Exception sheet UAS\_Ph2 | Qualcomm | agreed | - | - |
| S3-233446 | Draft TR 33.809 | Apple | approved | - | - |
| S3-233447 | Changes for SCAS gNB for Rel18 | Keysight Technologies UK Ltd | agreed | - | - |
| S3-233448 | Draft TR 33.894 | Lenovo | approved | - | - |
| S3-233449 | Exception sheet for Security Aspects of Ranging Based Services and Sidelink Positioning | Xiaomi | agreed | - | - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S3-232301 | 22/05/2023 07:10:37 | approved |
| S3-232302 | 22/05/2023 07:10:38 | approved |
| S3-232303 | 22/05/2023 07:14:12 | noted |
| S3-232304 | 22/05/2023 07:14:13 | noted |
| S3-232304 | 24/05/2023 06:13:57 | revised |
| S3-232305 | 21/05/2023 16:27:05 | revised |
| S3-232308 | 22/05/2023 09:58:20 | noted |
| S3-232309 | 22/05/2023 09:58:35 | noted |
| S3-232310 | 22/05/2023 09:58:50 | noted |
| S3-232311 | 22/05/2023 10:06:04 | noted |
| S3-232312 | 26/05/2023 09:15:14 | postponed |
| S3-232313 | 25/05/2023 07:27:15 | noted |
| S3-232314 | 22/05/2023 10:00:18 | noted |
| S3-232315 | 22/05/2023 10:00:22 | noted |
| S3-232316 | 26/05/2023 12:21:55 | postponed |
| S3-232317 | 22/05/2023 16:57:13 | available |
| S3-232318 | 22/05/2023 10:00:48 | noted |
| S3-232319 | 22/05/2023 10:01:02 | noted |
| S3-232320 | 22/05/2023 10:01:17 | noted |
| S3-232321 | 22/05/2023 10:01:31 | noted |
| S3-232322 | 25/05/2023 08:09:57 | available |
| S3-232322 | 25/05/2023 08:12:48 | postponed |
| S3-232323 | 22/05/2023 10:01:46 | noted |
| S3-232324 | 22/05/2023 10:01:51 | noted |
| S3-232325 | 25/05/2023 08:26:09 | available |
| S3-232326 | 22/05/2023 10:02:30 | noted |
| S3-232327 | 22/05/2023 07:37:08 | replied to |
| S3-232328 | 22/05/2023 07:43:27 | noted |
| S3-232329 | 26/05/2023 12:24:47 | available |
| S3-232330 | 22/05/2023 10:02:38 | noted |
| S3-232331 | 25/05/2023 07:46:15 | noted |
| S3-232332 | 26/05/2023 12:24:59 | postponed |
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| S3-232333 | 30/05/2023 07:43:25 | availablerepl |
| S3-232334 | 22/05/2023 08:04:03 | noted |
| S3-232335 | 22/05/2023 08:05:07 | noted |
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| S3-232340 | 26/05/2023 09:35:40 | replied to |
| S3-232341 | 26/05/2023 12:28:37 | postponed |
| S3-232342 | 22/05/2023 10:03:44 | noted |
| S3-232343 | 22/05/2023 10:03:55 | noted |
| S3-232344 | 26/05/2023 12:29:01 | postponed |
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| S3-232348 | 22/05/2023 08:20:23 | noted |
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| S3-232355 | 22/05/2023 09:59:25 | noted |
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| S3-232357 | 22/05/2023 07:17:06 | noted |
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| S3-232404 | 23/05/2023 16:34:40 | approved |
| S3-232405 | 23/05/2023 16:37:19 | noted |
| S3-232406 | 23/05/2023 16:37:57 | available |
| S3-232408 | 23/05/2023 15:08:40 | revised |
| S3-232410 | 23/05/2023 15:44:42 | revised |
| S3-232411 | 23/05/2023 15:44:55 | revised |
| S3-232412 | 23/05/2023 15:44:59 | revised |
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| S3-232415 | 23/05/2023 16:55:32 | approved |
| S3-232416 | 23/05/2023 07:23:14 | revised |
| S3-232417 | 25/05/2023 14:25:50 | available |
| S3-232418 | 24/05/2023 08:20:58 | revised |
| S3-232419 | 24/05/2023 08:04:43 | revised |
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| S3-232422 | 23/05/2023 16:36:37 | revised |
| S3-232423 | 24/05/2023 10:22:45 | revised |
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| S3-232457 | 26/05/2023 06:16:11 | noted |
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| S3-232462 | 26/05/2023 06:16:15 | noted |
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| S3-232469 | 23/05/2023 16:53:35 | revised |
| S3-232470 | 23/05/2023 16:53:53 | noted |
| S3-232471 | 25/05/2023 10:31:27 | revised |
| S3-232474 | 23/05/2023 16:54:43 | revised |
| S3-232475 | 25/05/2023 10:32:58 | revised |
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| S3-232483 | 24/05/2023 12:57:44 | available |
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| S3-232486 | 25/05/2023 12:40:50 | noted |
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| S3-232514 | 23/05/2023 15:21:37 | approved |
| S3-232515 | 23/05/2023 15:19:44 | approved |
| S3-232516 | 23/05/2023 15:43:29 | revised |
| S3-232517 | 23/05/2023 15:39:56 | revised |
| S3-232518 | 23/05/2023 15:33:00 | revised |
| S3-232519 | 24/05/2023 14:46:37 | revised |
| S3-232520 | 22/05/2023 10:15:02 | noted |
| S3-232521 | 25/05/2023 17:09:53 | available |
| S3-232522 | 25/05/2023 17:11:03 | available |
| S3-232523 | 22/05/2023 10:31:30 | revised |
| S3-232524 | 22/05/2023 10:31:41 | revised |
| S3-232525 | 22/05/2023 10:31:48 | revised |
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| S3-232528 | 22/05/2023 12:34:29 | revised |
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| S3-232533 | 24/05/2023 09:13:36 | available |
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| S3-232535 | 24/05/2023 10:18:57 | available |
| S3-232536 | 24/05/2023 10:12:03 | revised |
| S3-232537 | 22/05/2023 09:45:58 | revised |
| S3-232538 | 25/05/2023 09:47:37 | agreed |
| S3-232539 | 25/05/2023 09:47:50 | noted |
| S3-232540 | 25/05/2023 09:47:52 | noted |
| S3-232541 | 25/05/2023 09:48:12 | revised |
| S3-232542 | 25/05/2023 09:48:21 | approved |
| S3-232543 | 25/05/2023 10:13:15 | approved |
| S3-232544 | 25/05/2023 09:52:02 | agreed |
| S3-232548 | 22/05/2023 10:15:10 | noted |
| S3-232549 | 25/05/2023 09:32:41 | revised |
| S3-232550 | 25/05/2023 17:10:39 | revised |
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| S3-232552 | 26/05/2023 10:17:31 | revised |
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| S3-232556 | 24/05/2023 13:13:00 | revised |
| S3-232557 | 26/05/2023 12:09:43 | noted |
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| S3-232584 | 25/05/2023 14:36:35 | available |
| S3-232585 | 25/05/2023 14:36:45 | available |
| S3-232586 | 23/05/2023 14:57:36 | revised |
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| S3-232589 | 26/05/2023 06:13:57 | noted |
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| S3-232606 | 25/05/2023 10:38:05 | revised |
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| S3-232619 | 26/05/2023 07:29:00 | noted |
| S3-232620 | 23/05/2023 13:04:51 | agreed |
| S3-232621 | 26/05/2023 09:07:37 | available |
| S3-232622 | 24/05/2023 07:54:56 | available |
| S3-232623 | 24/05/2023 08:10:01 | available |
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| S3-232652 | 25/05/2023 06:33:03 | noted |
| S3-232653 | 25/05/2023 12:32:01 | noted |
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| S3-232659 | 26/05/2023 06:14:02 | noted |
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| S3-232661 | 24/05/2023 13:19:09 | not pursued |
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| S3-232674 | 23/05/2023 06:43:16 | revised |
| S3-232675 | 24/05/2023 06:18:11 | available |
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| S3-232689 | 26/05/2023 12:26:07 | revised |
| S3-232690 | 23/05/2023 06:24:14 | revised |
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| S3-232694 | 25/05/2023 06:14:26 | revised |
| S3-232695 | 25/05/2023 06:14:42 | available |
| S3-232695 | 25/05/2023 06:24:09 | merged |
| S3-232695 | 26/05/2023 06:58:29 | revised |
| S3-232696 | 26/05/2023 12:24:31 | revised |
| S3-232697 | 24/05/2023 14:59:31 | revised |
| S3-232698 | 24/05/2023 10:12:59 | available |
| S3-232699 | 24/05/2023 09:29:42 | available |
| S3-232700 | 25/05/2023 12:44:15 | approved |
| S3-232701 | 25/05/2023 06:57:48 | approved |
| S3-232702 | 24/05/2023 15:07:18 | agreed |
| S3-232703 | 24/05/2023 15:06:38 | revised |
| S3-232704 | 25/05/2023 09:10:56 | agreed |
| S3-232705 | 25/05/2023 09:11:01 | agreed |
| S3-232706 | 24/05/2023 09:33:02 | available |
| S3-232707 | 24/05/2023 09:46:50 | approved |
| S3-232707 | 24/05/2023 09:49:57 | revised |
| S3-232708 | 26/05/2023 07:41:21 | noted |
| S3-232709 | 26/05/2023 07:41:22 | noted |
| S3-232710 | 26/05/2023 07:29:11 | noted |
| S3-232711 | 26/05/2023 07:29:12 | noted |
| S3-232712 | 25/05/2023 12:27:05 | revised |
| S3-232713 | 26/05/2023 10:30:52 | available |
| S3-232714 | 24/05/2023 06:52:49 | available |
| S3-232715 | 25/05/2023 06:14:35 | available |
| S3-232716 | 26/05/2023 07:00:17 | available |
| S3-232717 | 24/05/2023 13:07:57 | available |
| S3-232718 | 24/05/2023 13:08:02 | available |
| S3-232719 | 24/05/2023 13:02:00 | revised |
| S3-232720 | 25/05/2023 14:20:58 | available |
| S3-232721 | 23/05/2023 09:17:35 | available |
| S3-232722 | 25/05/2023 13:19:30 | revised |
| S3-232723 | 23/05/2023 09:58:59 | revised |
| S3-232724 | 23/05/2023 10:11:55 | revised |
| S3-232725 | 23/05/2023 10:10:06 | available |
| S3-232726 | 24/05/2023 15:16:19 | revised |
| S3-232727 | 24/05/2023 15:16:12 | revised |
| S3-232728 | 25/05/2023 14:28:34 | available |
| S3-232729 | 23/05/2023 13:30:03 | noted |
| S3-232730 | 26/05/2023 12:31:28 | available |
| S3-232731 | 25/05/2023 14:29:34 | available |
| S3-232732 | 25/05/2023 14:22:33 | noted |
| S3-232733 | 25/05/2023 14:22:34 | noted |
| S3-232734 | 23/05/2023 12:49:15 | approved |
| S3-232735 | 26/05/2023 07:30:12 | revised |
| S3-232736 | 26/05/2023 07:30:40 | available |
| S3-232737 | 26/05/2023 12:09:52 | noted |
| S3-232738 | 24/05/2023 12:32:05 | revised |
| S3-232739 | 24/05/2023 12:10:18 | revised |
| S3-232740 | 24/05/2023 17:19:46 | available |
| S3-232741 | 24/05/2023 12:27:36 | revised |
| S3-232742 | 24/05/2023 12:28:00 | available |
| S3-232742 | 24/05/2023 12:32:46 | merged |
| S3-232742 | 24/05/2023 12:40:57 | available |
| S3-232743 | 25/05/2023 12:29:38 | available |
| S3-232744 | 24/05/2023 06:43:30 | revised |
| S3-232745 | 25/05/2023 12:29:43 | available |
| S3-232746 | 24/05/2023 06:46:10 | revised |
| S3-232747 | 23/05/2023 16:47:39 | approved |
| S3-232747 | 23/05/2023 17:32:32 | revised |
| S3-232747 | 23/05/2023 17:32:38 | approved |
| S3-232748 | 23/05/2023 16:47:40 | approved |
| S3-232748 | 24/05/2023 07:46:29 | revised |
| S3-232748 | 24/05/2023 07:46:34 | approved |
| S3-232749 | 23/05/2023 16:47:51 | approved |
| S3-232749 | 24/05/2023 07:47:56 | revised |
| S3-232749 | 24/05/2023 07:48:01 | approved |
| S3-232750 | 26/05/2023 12:01:04 | noted |
| S3-232751 | 24/05/2023 06:46:47 | revised |
| S3-232752 | 24/05/2023 06:38:47 | available |
| S3-232753 | 25/05/2023 12:29:50 | available |
| S3-232754 | 23/05/2023 12:56:42 | noted |
| S3-232755 | 25/05/2023 14:23:12 | noted |
| S3-232756 | 26/05/2023 12:01:05 | noted |
| S3-232757 | 23/05/2023 16:38:28 | agreed |
| S3-232758 | 23/05/2023 16:38:32 | approved |
| S3-232759 | 22/05/2023 14:14:22 | revised |
| S3-232760 | 23/05/2023 16:47:53 | approved |
| S3-232760 | 25/05/2023 13:03:23 | noted |
| S3-232761 | 24/05/2023 09:41:28 | revised |
| S3-232762 | 24/05/2023 09:41:31 | revised |
| S3-232763 | 25/05/2023 10:05:06 | agreed |
| S3-232764 | 24/05/2023 09:41:39 | revised |
| S3-232765 | 25/05/2023 10:05:08 | agreed |
| S3-232766 | 24/05/2023 09:41:42 | revised |
| S3-232767 | 25/05/2023 10:05:11 | agreed |
| S3-232768 | 24/05/2023 09:41:51 | revised |
| S3-232769 | 24/05/2023 09:41:53 | revised |
| S3-232770 | 24/05/2023 09:41:55 | revised |
| S3-232771 | 24/05/2023 09:42:02 | revised |
| S3-232772 | 24/05/2023 09:42:03 | agreed |
| S3-232772 | 24/05/2023 09:42:06 | revised |
| S3-232773 | 25/05/2023 10:06:19 | agreed |
| S3-232774 | 25/05/2023 10:06:20 | agreed |
| S3-232775 | 25/05/2023 12:16:09 | available |
| S3-232776 | 26/05/2023 08:02:04 | noted |
| S3-232777 | 25/05/2023 07:01:34 | revised |
| S3-232778 | 26/05/2023 08:02:33 | available |
| S3-232779 | 23/05/2023 16:37:41 | revised |
| S3-232780 | 24/05/2023 09:42:14 | revised |
| S3-232781 | 25/05/2023 10:07:18 | approved |
| S3-232782 | 23/05/2023 16:48:15 | approved |
| S3-232782 | 24/05/2023 07:50:16 | revised |
| S3-232782 | 24/05/2023 07:50:21 | approved |
| S3-232783 | 25/05/2023 12:48:51 | approved |
| S3-232784 | 25/05/2023 10:19:35 | revised |
| S3-232785 | 25/05/2023 13:03:56 | approved |
| S3-232786 | 23/05/2023 08:14:19 | revised |
| S3-232787 | 23/05/2023 08:18:48 | revised |
| S3-232788 | 25/05/2023 13:07:12 | approved |
| S3-232789 | 25/05/2023 10:19:12 | revised |
| S3-232790 | 25/05/2023 10:19:15 | revised |
| S3-232791 | 26/05/2023 12:31:49 | noted |
| S3-232792 | 26/05/2023 12:31:54 | noted |
| S3-232793 | 23/05/2023 13:11:06 | revised |
| S3-232794 | 26/05/2023 12:06:39 | noted |
| S3-232795 | 26/05/2023 12:31:59 | noted |
| S3-232796 | 22/05/2023 07:09:49 | approved |
| S3-232797 | 26/05/2023 09:16:07 | noted |
| S3-232798 | 26/05/2023 09:16:21 | available |
| S3-232799 | 26/05/2023 09:17:24 | available |
| S3-232800 | 25/05/2023 10:40:04 | revised |
| S3-232801 | 25/05/2023 10:40:10 | revised |
| S3-232802 | 24/05/2023 06:56:03 | revised |
| S3-232804 | 26/05/2023 09:19:27 | available |
| S3-232805 | 22/05/2023 09:55:16 | revised |
| S3-232806 | 25/05/2023 09:52:13 | available |
| S3-232807 | 24/05/2023 06:50:10 | revised |
| S3-232808 | 26/05/2023 09:19:35 | available |
| S3-232809 | 25/05/2023 09:52:19 | available |
| S3-232810 | 25/05/2023 12:30:46 | available |
| S3-232811 | 24/05/2023 06:38:05 | available |
| S3-232812 | 26/05/2023 09:19:45 | available |
| S3-232813 | 26/05/2023 12:32:11 | noted |
| S3-232814 | 26/05/2023 09:19:49 | available |
| S3-232815 | 26/05/2023 09:19:52 | available |
| S3-232816 | 26/05/2023 06:40:05 | available |
| S3-232817 | 25/05/2023 12:50:11 | noted |
| S3-232818 | 25/05/2023 09:17:11 | revised |
| S3-232819 | 26/05/2023 12:28:04 | noted |
| S3-232820 | 26/05/2023 12:27:05 | noted |
| S3-232821 | 26/05/2023 09:53:25 | available |
| S3-232822 | 25/05/2023 09:52:32 | available |
| S3-232823 | 26/05/2023 09:53:33 | available |
| S3-232824 | 23/05/2023 15:17:06 | revised |
| S3-232825 | 25/05/2023 14:47:12 | noted |
| S3-232826 | 26/05/2023 06:41:31 | approved |
| S3-232826 | 26/05/2023 06:44:30 | noted |
| S3-232827 | 25/05/2023 12:36:04 | available |
| S3-232828 | 26/05/2023 07:31:15 | approved |
| S3-232829 | 24/05/2023 07:24:45 | revised |
| S3-232830 | 24/05/2023 08:17:53 | revised |
| S3-232831 | 26/05/2023 11:31:56 | revised |
| S3-232832 | 26/05/2023 12:02:48 | noted |
| S3-232833 | 25/05/2023 07:27:20 | noted |
| S3-232834 | 25/05/2023 12:50:27 | available |
| S3-232835 | 23/05/2023 07:08:38 | revised |
| S3-232836 | 23/05/2023 08:32:44 | revised |
| S3-232837 | 22/05/2023 07:57:32 | revised |
| S3-232838 | 25/05/2023 10:19:25 | revised |
| S3-232839 | 25/05/2023 13:08:51 | approved |
| S3-232840 | 26/05/2023 07:20:47 | available |
| S3-232841 | 25/05/2023 13:09:06 | revised |
| S3-232842 | 25/05/2023 13:09:18 | revised |
| S3-232843 | 25/05/2023 09:52:52 | revised |
| S3-232844 | 25/05/2023 09:57:34 | revised |
| S3-232845 | 24/05/2023 16:27:32 | revised |
| S3-232846 | 24/05/2023 15:29:49 | revised |
| S3-232847 | 24/05/2023 15:30:01 | revised |
| S3-232848 | 24/05/2023 15:30:09 | revised |
| S3-232849 | 25/05/2023 12:33:10 | noted |
| S3-232850 | 24/05/2023 15:30:20 | revised |
| S3-232851 | 22/05/2023 14:49:41 | available |
| S3-232852 | 22/05/2023 14:55:41 | revised |
| S3-232853 | 25/05/2023 13:09:35 | available |
| S3-232854 | 24/05/2023 16:02:48 | revised |
| S3-232855 | 25/05/2023 12:54:19 | noted |
| S3-232856 | 25/05/2023 13:09:37 | available |
| S3-232857 | 25/05/2023 12:54:23 | available |
| S3-232858 | 25/05/2023 12:54:25 | available |
| S3-232859 | 23/05/2023 08:31:23 | revised |
| S3-232860 | 23/05/2023 08:34:47 | available |
| S3-232860 | 24/05/2023 17:10:23 | not pursued |
| S3-232860 | 24/05/2023 17:10:57 | merged |
| S3-232861 | 26/05/2023 12:32:26 | noted |
| S3-232862 | 22/05/2023 15:07:49 | available |
| S3-232863 | 24/05/2023 16:03:14 | revised |
| S3-232864 | 24/05/2023 12:11:18 | available |
| S3-232865 | 26/05/2023 10:30:55 | available |
| S3-232866 | 26/05/2023 06:41:37 | available |
| S3-232867 | 25/05/2023 08:25:19 | available |
| S3-232867 | 25/05/2023 08:25:35 | revised |
| S3-232868 | 26/05/2023 06:16:02 | noted |
| S3-232869 | 26/05/2023 06:24:52 | noted |
| S3-232870 | 25/05/2023 09:09:53 | available |
| S3-232871 | 22/05/2023 14:55:56 | revised |
| S3-232872 | 26/05/2023 11:53:03 | noted |
| S3-232873 | 25/05/2023 14:35:34 | available |
| S3-232874 | 26/05/2023 06:41:39 | available |
| S3-232875 | 22/05/2023 15:09:01 | revised |
| S3-232876 | 22/05/2023 15:09:30 | revised |
| S3-232877 | 22/05/2023 15:09:33 | revised |
| S3-232878 | 26/05/2023 07:21:41 | available |
| S3-232879 | 22/05/2023 08:23:36 | noted |
| S3-232880 | 22/05/2023 15:09:38 | revised |
| S3-232881 | 24/05/2023 06:22:54 | available |
| S3-232882 | 22/05/2023 15:09:42 | revised |
| S3-232883 | 24/05/2023 06:22:51 | available |
| S3-232884 | 22/05/2023 15:09:45 | revised |
| S3-232885 | 26/05/2023 09:20:07 | available |
| S3-232886 | 26/05/2023 09:20:09 | available |
| S3-232887 | 22/05/2023 14:57:05 | available |
| S3-232888 | 22/05/2023 14:57:11 | available |
| S3-232889 | 22/05/2023 12:22:17 | revised |
| S3-232890 | 22/05/2023 12:22:30 | revised |
| S3-232891 | 22/05/2023 12:23:09 | revised |
| S3-232892 | 26/05/2023 09:21:31 | available |
| S3-232893 | 26/05/2023 09:21:35 | available |
| S3-232894 | 26/05/2023 09:21:37 | available |
| S3-232895 | 24/05/2023 06:32:59 | revised |
| S3-232896 | 24/05/2023 10:13:06 | available |
| S3-232897 | 24/05/2023 10:18:47 | revised |
| S3-232898 | 24/05/2023 07:48:28 | revised |
| S3-232899 | 24/05/2023 07:54:40 | noted |
| S3-232900 | 24/05/2023 07:54:19 | revised |
| S3-232901 | 24/05/2023 08:09:31 | revised |
| S3-232902 | 24/05/2023 08:07:33 | revised |
| S3-232903 | 26/05/2023 09:10:02 | available |
| S3-232904 | 24/05/2023 09:29:53 | available |
| S3-232905 | 24/05/2023 09:32:54 | revised |
| S3-232906 | 25/05/2023 15:10:29 | revised |
| S3-232907 | 26/05/2023 07:31:34 | available |
| S3-232908 | 26/05/2023 07:31:45 | approved |
| S3-232909 | 24/05/2023 07:38:36 | approved |
| S3-232909 | 26/05/2023 07:35:02 | revised |
| S3-232910 | 24/05/2023 07:40:14 | revised |
| S3-232911 | 26/05/2023 12:13:22 | approved |
| S3-232912 | 22/05/2023 15:09:49 | revised |
| S3-232913 | 22/05/2023 15:09:54 | revised |
| S3-232914 | 22/05/2023 15:09:57 | revised |
| S3-232914 | 02/06/2023 09:15:50 | noted |
| S3-232915 | 24/05/2023 16:27:44 | revised |
| S3-232916 | 26/05/2023 12:32:36 | available |
| S3-232917 | 25/05/2023 09:55:38 | revised |
| S3-232918 | 25/05/2023 09:56:34 | approved |
| S3-232919 | 23/05/2023 16:39:43 | approved |
| S3-232920 | 25/05/2023 09:56:50 | approved |
| S3-232921 | 25/05/2023 14:35:37 | available |
| S3-232922 | 25/05/2023 14:35:39 | available |
| S3-232923 | 25/05/2023 08:10:57 | noted |
| S3-232924 | 24/05/2023 13:26:59 | noted |
| S3-232925 | 24/05/2023 12:46:03 | approved |
| S3-232926 | 24/05/2023 12:58:34 | revised |
| S3-232927 | 24/05/2023 13:13:32 | available |
| S3-232928 | 22/05/2023 09:16:57 | revised |
| S3-232929 | 23/05/2023 16:49:06 | revised |
| S3-232930 | 24/05/2023 12:13:40 | revised |
| S3-232931 | 24/05/2023 12:19:49 | approved |
| S3-232932 | 24/05/2023 12:36:04 | available |
| S3-232933 | 24/05/2023 12:28:07 | available |
| S3-232933 | 24/05/2023 12:40:20 | merged |
| S3-232933 | 24/05/2023 12:41:56 | revised |
| S3-232934 | 25/05/2023 15:28:29 | revised |
| S3-232935 | 24/05/2023 09:47:01 | noted |
| S3-232936 | 24/05/2023 09:54:47 | revised |
| S3-232937 | 24/05/2023 09:08:12 | revised |
| S3-232938 | 26/05/2023 11:58:04 | approved |
| S3-232938 | 26/05/2023 11:58:38 | revised |
| S3-232939 | 24/05/2023 09:57:18 | revised |
| S3-232940 | 25/05/2023 17:01:30 | revised |
| S3-232941 | 25/05/2023 17:01:39 | revised |
| S3-232942 | 26/05/2023 12:32:49 | noted |
| S3-232943 | 26/05/2023 06:41:53 | available |
| S3-232944 | 25/05/2023 16:18:37 | noted |
| S3-232945 | 26/05/2023 12:32:58 | available |
| S3-232946 | 24/05/2023 06:52:57 | available |
| S3-232947 | 26/05/2023 07:25:03 | available |
| S3-232948 | 24/05/2023 06:53:42 | available |
| S3-232949 | 26/05/2023 06:41:58 | available |
| S3-232950 | 26/05/2023 12:33:23 | noted |
| S3-232951 | 26/05/2023 06:42:01 | available |
| S3-232952 | 26/05/2023 06:45:29 | approved |
| S3-232952 | 26/05/2023 06:45:42 | revised |
| S3-232953 | 26/05/2023 06:46:41 | revised |
| S3-232954 | 24/05/2023 06:49:07 | revised |
| S3-232955 | 24/05/2023 06:49:14 | revised |
| S3-232956 | 24/05/2023 06:48:46 | revised |
| S3-232957 | 26/05/2023 06:48:00 | revised |
| S3-232958 | 24/05/2023 06:53:07 | available |
| S3-232959 | 26/05/2023 06:48:45 | revised |
| S3-232960 | 24/05/2023 06:53:22 | revised |
| S3-232961 | 24/05/2023 15:23:00 | revised |
| S3-232962 | 25/05/2023 06:06:19 | revised |
| S3-232963 | 25/05/2023 06:11:21 | revised |
| S3-232964 | 25/05/2023 06:23:08 | revised |
| S3-232965 | 25/05/2023 06:24:25 | available |
| S3-232966 | 25/05/2023 06:18:23 | revised |
| S3-232967 | 25/05/2023 06:23:25 | available |
| S3-232968 | 26/05/2023 07:01:11 | noted |
| S3-232969 | 25/05/2023 06:30:39 | revised |
| S3-232970 | 26/05/2023 07:01:21 | available |
| S3-232971 | 25/05/2023 06:34:35 | revised |
| S3-232972 | 25/05/2023 14:21:05 | available |
| S3-232973 | 23/05/2023 10:28:22 | noted |
| S3-232974 | 24/05/2023 06:47:17 | available |
| S3-232975 | 24/05/2023 06:39:21 | available |
| S3-232976 | 23/05/2023 09:44:33 | revised |
| S3-232977 | 23/05/2023 09:59:16 | available |
| S3-232978 | 25/05/2023 13:26:50 | noted |
| S3-232979 | 25/05/2023 13:39:05 | available |
| S3-232980 | 25/05/2023 14:56:49 | available |
| S3-232981 | 25/05/2023 14:35:42 | available |
| S3-232982 | 25/05/2023 12:54:34 | noted |
| S3-232983 | 25/05/2023 12:56:15 | revised |
| S3-232984 | 25/05/2023 12:57:54 | revised |
| S3-232985 | 26/05/2023 07:32:02 | noted |
| S3-232986 | 26/05/2023 07:32:09 | noted |
| S3-232987 | 26/05/2023 12:02:51 | noted |
| S3-232988 | 26/05/2023 12:02:54 | noted |
| S3-232989 | 25/05/2023 12:31:34 | revised |
| S3-232990 | 25/05/2023 15:17:14 | noted |
| S3-232991 | 25/05/2023 15:18:18 | approved |
| S3-232992 | 25/05/2023 15:19:48 | approved |
| S3-232993 | 24/05/2023 12:26:50 | available |
| S3-232994 | 24/05/2023 12:27:01 | available |
| S3-232995 | 24/05/2023 12:42:45 | available |
| S3-232996 | 24/05/2023 12:09:47 | available |
| S3-232997 | 23/05/2023 08:14:34 | available |
| S3-232998 | 24/05/2023 08:12:42 | available |
| S3-232999 | 24/05/2023 07:56:43 | available |
| S3-233000 | 24/05/2023 07:49:44 | available |
| S3-233001 | 25/05/2023 15:25:49 | available |
| S3-233002 | 26/05/2023 06:48:59 | available |
| S3-233003 | 26/05/2023 06:49:02 | available |
| S3-233004 | 24/05/2023 06:53:55 | available |
| S3-233005 | 25/05/2023 14:19:33 | available |
| S3-233006 | 25/05/2023 14:19:35 | available |
| S3-233007 | 25/05/2023 14:19:38 | available |
| S3-233008 | 24/05/2023 12:10:37 | revised |
| S3-233009 | 26/05/2023 06:16:18 | noted |
| S3-233010 | 26/05/2023 06:16:23 | noted |
| S3-233011 | 25/05/2023 12:36:30 | approved |
| S3-233012 | 26/05/2023 09:59:09 | revised |
| S3-233013 | 25/05/2023 13:37:35 | revised |
| S3-233014 | 25/05/2023 14:58:06 | noted |
| S3-233015 | 26/05/2023 12:22:09 | noted |
| S3-233016 | 24/05/2023 06:38:36 | revised |
| S3-233017 | 25/05/2023 12:33:18 | noted |
| S3-233018 | 25/05/2023 12:33:19 | noted |
| S3-233019 | 25/05/2023 13:38:35 | revised |
| S3-233020 | 25/05/2023 13:39:15 | available |
| S3-233021 | 25/05/2023 14:56:36 | revised |
| S3-233022 | 25/05/2023 14:57:13 | available |
| S3-233023 | 26/05/2023 09:22:55 | noted |
| S3-233024 | 26/05/2023 12:04:44 | noted |
| S3-233025 | 25/05/2023 13:27:36 | available |
| S3-233025 | 25/05/2023 13:28:39 | revised |
| S3-233026 | 26/05/2023 12:04:49 | noted |
| S3-233027 | 26/05/2023 12:04:56 | noted |
| S3-233028 | 24/05/2023 12:11:03 | revised |
| S3-233029 | 26/05/2023 10:33:24 | revised |
| S3-233030 | 23/05/2023 09:28:25 | available |
| S3-233031 | 25/05/2023 12:42:57 | available |
| S3-233032 | 25/05/2023 12:42:59 | available |
| S3-233033 | 24/05/2023 06:39:11 | revised |
| S3-233034 | 24/05/2023 06:47:38 | available |
| S3-233036 | 26/05/2023 09:23:04 | noted |
| S3-233037 | 26/05/2023 09:23:08 | noted |
| S3-233038 | 25/05/2023 09:13:58 | approved |
| S3-233038 | 25/05/2023 09:14:38 | revised |
| S3-233038 | 25/05/2023 09:14:45 | approved |
| S3-233039 | 26/05/2023 12:33:33 | noted |
| S3-233040 | 25/05/2023 14:19:41 | available |
| S3-233041 | 25/05/2023 14:19:43 | available |
| S3-233042 | 24/05/2023 12:29:11 | available |
| S3-233043 | 25/05/2023 08:50:05 | revised |
| S3-233045 | 26/05/2023 09:23:39 | available |
| S3-233046 | 23/05/2023 07:08:57 | available |
| S3-233047 | 23/05/2023 16:27:57 | approved |
| S3-233048 | 23/05/2023 06:59:20 | revised |
| S3-233049 | 25/05/2023 12:58:21 | available |
| S3-233050 | 25/05/2023 12:58:23 | available |
| S3-233050 | 25/05/2023 12:59:01 | revised |
| S3-233051 | 25/05/2023 12:58:25 | available |
| S3-233051 | 25/05/2023 12:59:04 | revised |
| S3-233052 | 25/05/2023 12:58:31 | available |
| S3-233053 | 26/05/2023 10:23:14 | noted |
| S3-233054 | 25/05/2023 12:11:22 | revised |
| S3-233055 | 25/05/2023 14:35:44 | available |
| S3-233056 | 25/05/2023 14:35:47 | available |
| S3-233057 | 23/05/2023 14:57:53 | available |
| S3-233058 | 24/05/2023 15:35:37 | noted |
| S3-233059 | 22/05/2023 12:44:21 | noted |
| S3-233060 | 22/05/2023 12:44:24 | available |
| S3-233060 | 22/05/2023 14:05:54 | not pursued |
| S3-233060 | 26/05/2023 09:23:53 | available |
| S3-233061 | 26/05/2023 09:24:00 | available |
| S3-233061 | 26/05/2023 13:29:41 | not pursued |
| S3-233062 | 26/05/2023 09:24:03 | available |
| S3-233062 | 26/05/2023 13:29:44 | not pursued |
| S3-233063 | 26/05/2023 09:24:06 | available |
| S3-233063 | 26/05/2023 13:30:19 | not pursued |
| S3-233063 | 26/05/2023 13:30:37 | not treated |
| S3-233064 | 26/05/2023 09:24:09 | available |
| S3-233065 | 26/05/2023 09:24:12 | available |
| S3-233066 | 23/05/2023 09:36:36 | revised |
| S3-233067 | 25/05/2023 14:19:46 | available |
| S3-233068 | 25/05/2023 14:19:49 | available |
| S3-233069 | 25/05/2023 14:21:51 | available |
| S3-233070 | 26/05/2023 06:49:06 | available |
| S3-233071 | 24/05/2023 06:54:11 | available |
| S3-233072 | 23/05/2023 09:17:07 | revised |
| S3-233073 | 23/05/2023 10:10:21 | available |
| S3-233074 | 23/05/2023 13:05:27 | agreed |
| S3-233075 | 23/05/2023 13:05:03 | agreed |
| S3-233077 | 25/05/2023 14:36:59 | available |
| S3-233078 | 22/05/2023 16:20:52 | noted |
| S3-233079 | 24/05/2023 16:28:00 | withdrawn |
| S3-233080 | 26/05/2023 09:24:30 | available |
| S3-233081 | 26/05/2023 09:24:32 | available |
| S3-233082 | 23/05/2023 15:39:07 | revised |
| S3-233083 | 25/05/2023 14:36:52 | available |
| S3-233084 | 24/05/2023 13:11:07 | revised |
| S3-233085 | 26/05/2023 08:02:37 | available |
| S3-233086 | 25/05/2023 07:01:47 | available |
| S3-233087 | 23/05/2023 17:34:55 | revised |
| S3-233088 | 26/05/2023 08:02:42 | available |
| S3-233089 | 26/05/2023 08:02:45 | available |
| S3-233090 | 25/05/2023 06:40:29 | noted |
| S3-233091 | 25/05/2023 09:03:12 | revised |
| S3-233092 | 25/05/2023 09:03:23 | revised |
| S3-233093 | 25/05/2023 15:08:26 | noted |
| S3-233094 | 22/05/2023 13:28:32 | noted |
| S3-233095 | 22/05/2023 13:32:26 | available |
| S3-233096 | 22/05/2023 13:32:30 | available |
| S3-233097 | 22/05/2023 13:26:49 | noted |
| S3-233098 | 26/05/2023 09:24:44 | available |
| S3-233099 | 26/05/2023 09:24:50 | noted |
| S3-233100 | 25/05/2023 12:30:59 | available |
| S3-233101 | 25/05/2023 14:30:54 | noted |
| S3-233102 | 25/05/2023 14:28:23 | revised |
| S3-233103 | 25/05/2023 14:31:15 | available |
| S3-233104 | 23/05/2023 13:16:26 | noted |
| S3-233105 | 23/05/2023 13:23:51 | available |
| S3-233106 | 23/05/2023 13:24:06 | available |
| S3-233107 | 26/05/2023 12:11:05 | noted |
| S3-233108 | 26/05/2023 12:11:12 | noted |
| S3-233109 | 25/05/2023 12:44:17 | approved |
| S3-233110 | 24/05/2023 06:50:20 | available |
| S3-233111 | 25/05/2023 12:44:23 | approved |
| S3-233112 | 25/05/2023 12:44:24 | approved |
| S3-233113 | 22/05/2023 16:52:18 | available |
| S3-233114 | 24/05/2023 13:08:10 | available |
| S3-233115 | 25/05/2023 14:21:40 | available |
| S3-233116 | 24/05/2023 13:13:39 | available |
| S3-233117 | 25/05/2023 09:57:46 | agreed |
| S3-233118 | 25/05/2023 09:57:48 | agreed |
| S3-233119 | 26/05/2023 07:57:36 | agreed |
| S3-233119 | 26/05/2023 07:58:50 | revised |
| S3-233120 | 22/05/2023 07:28:09 | noted |
| S3-233121 | 25/05/2023 08:11:04 | noted |
| S3-233122 | 25/05/2023 14:36:54 | available |
| S3-233123 | 24/05/2023 09:51:39 | revised |
| S3-233124 | 24/05/2023 09:53:34 | approved |
| S3-233125 | 24/05/2023 06:43:48 | available |
| S3-233126 | 26/05/2023 08:26:28 | revised |
| S3-233127 | 26/05/2023 10:31:32 | revised |
| S3-233128 | 25/05/2023 14:32:17 | noted |
| S3-233129 | 25/05/2023 09:58:01 | agreed |
| S3-233130 | 25/05/2023 09:58:16 | revised |
| S3-233131 | 26/05/2023 09:24:55 | available |
| S3-233132 | 26/05/2023 09:24:57 | noted |
| S3-233133 | 25/05/2023 12:19:05 | available |
| S3-233134 | 25/05/2023 12:19:07 | available |
| S3-233135 | 25/05/2023 12:19:10 | available |
| S3-233136 | 26/05/2023 08:03:04 | available |
| S3-233137 | 25/05/2023 14:40:09 | approved |
| S3-233138 | 26/05/2023 13:43:53 | noted |
| S3-233139 | 26/05/2023 09:33:03 | approved |
| S3-233140 | 25/05/2023 07:34:14 | approved |
| S3-233141 | 26/05/2023 09:25:02 | noted |
| S3-233142 | 26/05/2023 08:13:49 | approved |
| S3-233143 | 25/05/2023 07:32:31 | approved |
| S3-233144 | 26/05/2023 08:10:34 | noted |
| S3-233145 | 26/05/2023 09:30:20 | approved |
| S3-233146 | 26/05/2023 09:12:04 | agreed |
| S3-233147 | 26/05/2023 09:12:05 | agreed |
| S3-233148 | 26/05/2023 09:12:07 | agreed |
| S3-233149 | 25/05/2023 09:43:49 | agreed |
| S3-233150 | 25/05/2023 09:44:08 | agreed |
| S3-233151 | 25/05/2023 09:44:10 | agreed |
| S3-233152 | 26/05/2023 09:15:06 | noted |
| S3-233153 | 25/05/2023 09:53:26 | approved |
| S3-233154 | 25/05/2023 09:43:21 | agreed |
| S3-233155 | 25/05/2023 09:43:25 | agreed |
| S3-233156 | 26/05/2023 11:46:48 | noted |
| S3-233157 | 26/05/2023 11:47:13 | approved |
| S3-233158 | 25/05/2023 16:04:48 | approved |
| S3-233159 | 26/05/2023 11:47:33 | noted |
| S3-233160 | 26/05/2023 11:48:04 | noted |
| S3-233161 | 26/05/2023 11:48:11 | noted |
| S3-233162 | 25/05/2023 16:14:27 | approved |
| S3-233163 | 26/05/2023 11:48:43 | approved |
| S3-233164 | 26/05/2023 11:51:30 | approved |
| S3-233164 | 02/06/2023 09:15:34 | withdrawn |
| S3-233165 | 25/05/2023 12:38:41 | agreed |
| S3-233166 | 25/05/2023 12:38:43 | agreed |
| S3-233167 | 25/05/2023 12:42:37 | approved |
| S3-233168 | 26/05/2023 10:22:41 | approved |
| S3-233169 | 25/05/2023 12:51:08 | approved |
| S3-233170 | 23/05/2023 16:57:43 | approved |
| S3-233171 | 25/05/2023 13:05:25 | approved |
| S3-233172 | 26/05/2023 10:21:06 | approved |
| S3-233173 | 26/05/2023 10:22:04 | reserved |
| S3-233174 | 25/05/2023 13:08:18 | approved |
| S3-233175 | 25/05/2023 13:21:06 | approved |
| S3-233176 | 26/05/2023 10:29:26 | approved |
| S3-233177 | 26/05/2023 10:26:32 | approved |
| S3-233178 | 26/05/2023 10:28:59 | approved |
| S3-233179 | 25/05/2023 13:23:31 | approved |
| S3-233180 | 25/05/2023 13:29:02 | approved |
| S3-233181 | 25/05/2023 13:24:47 | approved |
| S3-233182 | 26/05/2023 12:51:48 | noted |
| S3-233183 | 25/05/2023 13:25:20 | approved |
| S3-233184 | 23/05/2023 12:52:59 | approved |
| S3-233185 | 25/05/2023 14:30:22 | agreed |
| S3-233186 | 25/05/2023 14:34:11 | approved |
| S3-233187 | 25/05/2023 14:37:11 | approved |
| S3-233188 | 25/05/2023 14:39:32 | approved |
| S3-233189 | 26/05/2023 11:52:06 | reserved |
| S3-233190 | 26/05/2023 10:19:15 | approved |
| S3-233191 | 26/05/2023 10:18:49 | noted |
| S3-233192 | 25/05/2023 14:43:07 | approved |
| S3-233193 | 25/05/2023 10:23:10 | agreed |
| S3-233194 | 25/05/2023 10:23:47 | agreed |
| S3-233195 | 26/05/2023 09:53:06 | agreed |
| S3-233196 | 26/05/2023 12:15:27 | reserved |
| S3-233197 | 26/05/2023 12:54:39 | reserved |
| S3-233197 | 02/06/2023 14:19:46 | approved |
| S3-233198 | 26/05/2023 12:36:17 | reserved |
| S3-233198 | 02/06/2023 14:20:18 | approved |
| S3-233199 | 26/05/2023 12:33:42 | reserved |
| S3-233199 | 02/06/2023 14:19:59 | approved |
| S3-233200 | 26/05/2023 09:33:53 | approved |
| S3-233201 | 25/05/2023 09:53:55 | approved |
| S3-233202 | 26/05/2023 12:33:49 | reserved |
| S3-233202 | 02/06/2023 14:20:01 | approved |
| S3-233203 | 26/05/2023 09:50:08 | agreed |
| S3-233204 | 25/05/2023 15:35:39 | agreed |
| S3-233205 | 25/05/2023 10:30:29 | agreed |
| S3-233206 | 23/05/2023 16:53:43 | agreed |
| S3-233207 | 23/05/2023 16:54:47 | agreed |
| S3-233208 | 23/05/2023 16:55:09 | agreed |
| S3-233209 | 26/05/2023 10:07:03 | reserved |
| S3-233209 | 02/06/2023 14:20:26 | approved |
| S3-233210 | 26/05/2023 12:14:35 | reserved |
| S3-233210 | 02/06/2023 14:21:18 | approved |
| S3-233211 | 26/05/2023 09:48:50 | agreed |
| S3-233212 | 26/05/2023 08:15:11 | approved |
| S3-233213 | 25/05/2023 09:19:00 | approved |
| S3-233214 | 24/05/2023 06:14:00 | noted |
| S3-233215 | 26/05/2023 07:24:43 | withdrawn |
| S3-233216 | 26/05/2023 10:03:34 | approved |
| S3-233217 | 26/05/2023 10:06:25 | approved |
| S3-233218 | 26/05/2023 10:06:57 | approved |
| S3-233219 | 26/05/2023 10:02:42 | noted |
| S3-233220 | 25/05/2023 10:38:49 | revised |
| S3-233220 | 25/05/2023 16:31:02 | approved |
| S3-233221 | 26/05/2023 10:03:49 | reserved |
| S3-233221 | 26/05/2023 10:05:05 | approved |
| S3-233221 | 26/05/2023 12:40:27 | revised |
| S3-233221 | 26/05/2023 12:40:31 | approved |
| S3-233222 | 26/05/2023 10:04:22 | reserved |
| S3-233222 | 26/05/2023 12:39:06 | revised |
| S3-233222 | 26/05/2023 12:39:11 | approved |
| S3-233223 | 26/05/2023 10:05:46 | approved |
| S3-233224 | 26/05/2023 10:01:30 | approved |
| S3-233225 | 26/05/2023 06:52:26 | approved |
| S3-233226 | 26/05/2023 06:51:51 | approved |
| S3-233227 | 24/05/2023 06:49:17 | approved |
| S3-233228 | 24/05/2023 06:49:50 | approved |
| S3-233229 | 26/05/2023 06:51:11 | approved |
| S3-233230 | 26/05/2023 12:14:20 | approved |
| S3-233231 | 26/05/2023 06:53:09 | noted |
| S3-233232 | 25/05/2023 09:38:23 | agreed |
| S3-233233 | 26/05/2023 10:19:21 | reserved |
| S3-233233 | 26/05/2023 10:20:13 | email approval |
| S3-233233 | 26/05/2023 12:41:35 | reserved |
| S3-233233 | 26/05/2023 12:42:25 | approved |
| S3-233233 | 31/05/2023 09:24:38 | agreed |
| S3-233234 | 25/05/2023 09:54:16 | approved |
| S3-233235 | 26/05/2023 07:33:00 | approved |
| S3-233236 | 26/05/2023 12:12:38 | approved |
| S3-233237 | 26/05/2023 07:32:06 | reserved |
| S3-233237 | 02/06/2023 14:21:15 | approved |
| S3-233238 | 26/05/2023 09:49:09 | agreed |
| S3-233239 | 26/05/2023 09:49:11 | agreed |
| S3-233240 | 26/05/2023 12:46:12 | approved |
| S3-233241 | 26/05/2023 09:49:31 | agreed |
| S3-233242 | 26/05/2023 12:46:56 | approved |
| S3-233243 | 26/05/2023 09:05:59 | approved |
| S3-233244 | 25/05/2023 09:50:03 | agreed |
| S3-233245 | 26/05/2023 12:49:21 | noted |
| S3-233246 | 26/05/2023 12:47:22 | approved |
| S3-233247 | 26/05/2023 09:08:05 | approved |
| S3-233248 | 26/05/2023 12:45:34 | reserved |
| S3-233248 | 26/05/2023 12:50:50 | revised |
| S3-233248 | 26/05/2023 12:50:59 | approved |
| S3-233249 | 26/05/2023 07:38:55 | approved |
| S3-233250 | 26/05/2023 11:54:54 | approved |
| S3-233251 | 26/05/2023 07:38:13 | approved |
| S3-233252 | 25/05/2023 10:04:13 | agreed |
| S3-233253 | 25/05/2023 10:04:46 | agreed |
| S3-233254 | 25/05/2023 10:04:54 | agreed |
| S3-233255 | 25/05/2023 10:05:19 | agreed |
| S3-233256 | 25/05/2023 10:06:02 | agreed |
| S3-233257 | 25/05/2023 10:06:11 | agreed |
| S3-233258 | 25/05/2023 10:06:13 | agreed |
| S3-233259 | 25/05/2023 10:06:15 | agreed |
| S3-233260 | 25/05/2023 10:06:17 | agreed |
| S3-233261 | 25/05/2023 10:07:04 | approved |
| S3-233262 | 24/05/2023 09:50:25 | approved |
| S3-233263 | 26/05/2023 07:39:34 | approved |
| S3-233264 | 26/05/2023 07:39:37 | reserved |
| S3-233264 | 02/06/2023 14:21:01 | approved |
| S3-233265 | 24/05/2023 09:54:55 | approved |
| S3-233266 | 26/05/2023 07:44:59 | reserved |
| S3-233266 | 02/06/2023 14:20:40 | approved |
| S3-233267 | 26/05/2023 10:24:18 | approved |
| S3-233268 | 26/05/2023 07:42:24 | approved |
| S3-233269 | 26/05/2023 10:18:34 | reserved |
| S3-233269 | 02/06/2023 14:20:29 | approved |
| S3-233270 | 24/05/2023 12:09:08 | approved |
| S3-233270 | 24/05/2023 17:06:49 | revised |
| S3-233270 | 24/05/2023 17:06:54 | approved |
| S3-233271 | 25/05/2023 14:53:44 | approved |
| S3-233272 | 25/05/2023 15:04:52 | agreed |
| S3-233273 | 26/05/2023 12:04:38 | approved |
| S3-233274 | 26/05/2023 08:22:12 | approved |
| S3-233275 | 26/05/2023 07:46:07 | approved |
| S3-233276 | 24/05/2023 12:20:39 | approved |
| S3-233277 | 26/05/2023 07:46:18 | reserved |
| S3-233277 | 02/06/2023 14:21:00 | approved |
| S3-233278 | 26/05/2023 07:46:54 | approved |
| S3-233279 | 26/05/2023 09:38:42 | reserved |
| S3-233279 | 02/06/2023 14:21:08 | approved |
| S3-233280 | 24/05/2023 12:32:06 | approved |
| S3-233281 | 26/05/2023 07:48:01 | approved |
| S3-233282 | 26/05/2023 07:51:39 | approved |
| S3-233283 | 26/05/2023 11:59:51 | approved |
| S3-233284 | 24/05/2023 12:58:46 | approved |
| S3-233285 | 26/05/2023 07:55:27 | approved |
| S3-233286 | 26/05/2023 07:52:07 | approved |
| S3-233287 | 26/05/2023 10:01:17 | approved |
| S3-233288 | 26/05/2023 12:11:00 | approved |
| S3-233289 | 26/05/2023 07:55:49 | approved |
| S3-233290 | 26/05/2023 10:15:50 | agreed |
| S3-233291 | 26/05/2023 12:19:55 | agreed |
| S3-233292 | 25/05/2023 08:17:33 | agreed |
| S3-233293 | 24/05/2023 15:06:50 | agreed |
| S3-233294 | 26/05/2023 12:17:32 | agreed |
| S3-233295 | 26/05/2023 12:17:02 | agreed |
| S3-233296 | 24/05/2023 15:23:23 | agreed |
| S3-233297 | 25/05/2023 12:32:13 | approved |
| S3-233298 | 26/05/2023 06:10:29 | approved |
| S3-233299 | 25/05/2023 12:33:04 | approved |
| S3-233300 | 25/05/2023 12:32:34 | approved |
| S3-233301 | 26/05/2023 06:08:22 | reserved |
| S3-233301 | 02/06/2023 14:21:12 | approved |
| S3-233302 | 26/05/2023 06:08:28 | reserved |
| S3-233302 | 02/06/2023 14:21:14 | approved |
| S3-233303 | 26/05/2023 12:00:04 | approved |
| S3-233304 | 25/05/2023 15:16:26 | approved |
| S3-233305 | 26/05/2023 11:46:23 | noted |
| S3-233306 | 26/05/2023 11:44:56 | noted |
| S3-233307 | 25/05/2023 14:51:58 | revised |
| S3-233308 | 26/05/2023 08:16:15 | approved |
| S3-233309 | 25/05/2023 06:06:55 | approved |
| S3-233310 | 26/05/2023 07:03:17 | approved |
| S3-233311 | 26/05/2023 07:05:10 | reserved |
| S3-233311 | 02/06/2023 14:20:49 | approved |
| S3-233312 | 26/05/2023 07:02:43 | approved |
| S3-233313 | 26/05/2023 07:04:34 | approved |
| S3-233314 | 26/05/2023 07:03:54 | approved |
| S3-233315 | 26/05/2023 07:05:13 | approved |
| S3-233316 | 25/05/2023 06:34:54 | approved |
| S3-233317 | 26/05/2023 07:20:39 | reserved |
| S3-233317 | 02/06/2023 14:21:24 | approved |
| S3-233318 | 26/05/2023 08:02:57 | reserved |
| S3-233318 | 02/06/2023 14:21:21 | approved |
| S3-233319 | 26/05/2023 08:06:09 | approved |
| S3-233320 | 26/05/2023 12:15:16 | approved |
| S3-233321 | 26/05/2023 08:07:19 | approved |
| S3-233322 | 26/05/2023 08:19:01 | approved |
| S3-233323 | 26/05/2023 08:12:48 | approved |
| S3-233324 | 25/05/2023 15:21:48 | approved |
| S3-233325 | 26/05/2023 08:04:24 | noted |
| S3-233326 | 26/05/2023 08:04:40 | noted |
| S3-233327 | 26/05/2023 08:00:12 | agreed |
| S3-233328 | 25/05/2023 09:17:20 | approved |
| S3-233329 | 25/05/2023 09:34:05 | agreed |
| S3-233330 | 26/05/2023 09:50:58 | approved |
| S3-233331 | 25/05/2023 10:12:27 | approved |
| S3-233332 | 26/05/2023 12:35:34 | reserved |
| S3-233332 | 02/06/2023 14:20:14 | approved |
| S3-233333 | 25/05/2023 09:50:19 | agreed |
| S3-233334 | 25/05/2023 09:50:40 | agreed |
| S3-233335 | 25/05/2023 09:52:53 | agreed |
| S3-233336 | 25/05/2023 09:56:01 | approved |
| S3-233337 | 25/05/2023 09:57:35 | agreed |
| S3-233338 | 25/05/2023 09:58:17 | agreed |
| S3-233339 | 26/05/2023 09:42:43 | reserved |
| S3-233339 | 26/05/2023 09:44:44 | email approval |
| S3-233339 | 26/05/2023 12:35:18 | reserved |
| S3-233339 | 26/05/2023 13:56:44 | revised |
| S3-233339 | 02/06/2023 14:20:11 | approved |
| S3-233340 | 26/05/2023 09:45:37 | approved |
| S3-233341 | 26/05/2023 09:56:15 | agreed |
| S3-233342 | 26/05/2023 09:56:32 | agreed |
| S3-233343 | 26/05/2023 09:54:13 | agreed |
| S3-233344 | 25/05/2023 12:49:56 | approved |
| S3-233345 | 25/05/2023 10:28:07 | agreed |
| S3-233346 | 25/05/2023 10:32:35 | agreed |
| S3-233347 | 25/05/2023 10:33:23 | agreed |
| S3-233348 | 25/05/2023 10:34:29 | agreed |
| S3-233349 | 26/05/2023 08:19:03 | reserved |
| S3-233350 | 26/05/2023 07:27:14 | agreed |
| S3-233351 | 26/05/2023 07:22:51 | approved |
| S3-233352 | 25/05/2023 16:31:04 | agreed |
| S3-233353 | 26/05/2023 09:19:08 | agreed |
| S3-233354 | 26/05/2023 09:19:10 | agreed |
| S3-233355 | 26/05/2023 08:14:32 | approved |
| S3-233356 | 25/05/2023 15:15:35 | approved |
| S3-233357 | 25/05/2023 16:49:30 | approved |
| S3-233358 | 26/05/2023 07:07:17 | approved |
| S3-233359 | 25/05/2023 12:31:21 | approved |
| S3-233360 | 25/05/2023 12:31:35 | approved |
| S3-233361 | 26/05/2023 12:06:23 | noted |
| S3-233362 | 26/05/2023 06:13:36 | withdrawn |
| S3-233363 | 26/05/2023 12:11:22 | reserved |
| S3-233363 | 02/06/2023 14:21:09 | approved |
| S3-233364 | 26/05/2023 12:15:31 | reserved |
| S3-233364 | 02/06/2023 14:21:23 | approved |
| S3-233365 | 26/05/2023 06:22:05 | approved |
| S3-233366 | 25/05/2023 12:48:43 | approved |
| S3-233367 | 25/05/2023 12:57:16 | approved |
| S3-233368 | 25/05/2023 12:57:56 | approved |
| S3-233369 | 25/05/2023 13:00:22 | approved |
| S3-233370 | 25/05/2023 13:00:23 | approved |
| S3-233371 | 26/05/2023 10:21:41 | reserved |
| S3-233371 | 02/06/2023 14:20:31 | approved |
| S3-233372 | 26/05/2023 10:21:45 | reserved |
| S3-233372 | 02/06/2023 14:20:33 | approved |
| S3-233373 | 26/05/2023 10:28:07 | approved |
| S3-233374 | 26/05/2023 10:28:24 | reserved |
| S3-233374 | 02/06/2023 14:20:46 | approved |
| S3-233375 | 26/05/2023 10:00:44 | approved |
| S3-233376 | 26/05/2023 09:22:13 | agreed |
| S3-233377 | 26/05/2023 09:55:02 | agreed |
| S3-233378 | 26/05/2023 11:51:58 | reserved |
| S3-233378 | 02/06/2023 14:20:58 | approved |
| S3-233379 | 25/05/2023 14:52:32 | agreed |
| S3-233380 | 26/05/2023 09:22:23 | agreed |
| S3-233381 | 26/05/2023 12:10:40 | approved |
| S3-233382 | 26/05/2023 10:35:15 | reserved |
| S3-233382 | 02/06/2023 14:21:05 | approved |
| S3-233383 | 26/05/2023 07:49:09 | revised |
| S3-233383 | 26/05/2023 07:50:24 | reserved |
| S3-233383 | 02/06/2023 14:20:36 | approved |
| S3-233384 | 26/05/2023 11:51:34 | reserved |
| S3-233384 | 02/06/2023 09:19:00 | withdrawn |
| S3-233385 | 26/05/2023 10:37:22 | reserved |
| S3-233385 | 02/06/2023 14:21:06 | approved |
| S3-233386 | 26/05/2023 10:24:48 | approved |
| S3-233387 | 26/05/2023 07:44:22 | noted |
| S3-233388 | 25/05/2023 17:11:10 | agreed |
| S3-233388 | 25/05/2023 17:11:21 | revised |
| S3-233388 | 25/05/2023 17:12:31 | agreed |
| S3-233389 | 25/05/2023 17:12:07 | agreed |
| S3-233389 | 25/05/2023 17:12:21 | revised |
| S3-233389 | 25/05/2023 17:12:26 | agreed |
| S3-233390 | 25/05/2023 17:13:09 | agreed |
| S3-233391 | 26/05/2023 05:58:40 | revised |
| S3-233391 | 26/05/2023 09:42:33 | reserved |
| S3-233391 | 26/05/2023 09:44:36 | email approval |
| S3-233391 | 26/05/2023 12:35:08 | reserved |
| S3-233391 | 02/06/2023 14:20:02 | approved |
| S3-233392 | 26/05/2023 09:42:37 | reserved |
| S3-233392 | 26/05/2023 09:44:39 | email approval |
| S3-233392 | 26/05/2023 12:35:12 | reserved |
| S3-233392 | 02/06/2023 14:20:08 | agreed |
| S3-233393 | 26/05/2023 06:18:39 | reserved |
| S3-233393 | 02/06/2023 14:21:11 | approved |
| S3-233394 | 26/05/2023 06:45:46 | approved |
| S3-233395 | 26/05/2023 06:46:43 | approved |
| S3-233396 | 26/05/2023 06:48:02 | approved |
| S3-233397 | 26/05/2023 06:48:51 | approved |
| S3-233398 | 26/05/2023 06:58:35 | approved |
| S3-233399 | 26/05/2023 07:08:50 | reserved |
| S3-233399 | 26/05/2023 12:57:30 | approved |
| S3-233400 | 26/05/2023 07:19:40 | reserved |
| S3-233400 | 02/06/2023 14:21:18 | approved |
| S3-233401 | 26/05/2023 07:21:19 | reserved |
| S3-233401 | 02/06/2023 14:21:26 | agreed |
| S3-233401 | 02/06/2023 14:21:27 | approved |
| S3-233402 | 26/05/2023 07:28:38 | approved |
| S3-233403 | 26/05/2023 07:30:13 | approved |
| S3-233404 | 26/05/2023 07:35:04 | approved |
| S3-233405 | 26/05/2023 07:50:20 | reserved |
| S3-233405 | 02/06/2023 14:20:38 | agreed |
| S3-233406 | 26/05/2023 07:59:05 | agreed |
| S3-233407 | 26/05/2023 08:26:36 | approved |
| S3-233408 | 26/05/2023 08:29:08 | reserved |
| S3-233408 | 02/06/2023 14:20:57 | agreed |
| S3-233409 | 26/05/2023 12:05:24 | reserved |
| S3-233409 | 02/06/2023 14:21:04 | approved |
| S3-233410 | 26/05/2023 12:28:21 | approved |
| S3-233411 | 26/05/2023 09:46:34 | approved |
| S3-233412 | 26/05/2023 09:46:45 | agreed |
| S3-233413 | 26/05/2023 09:46:54 | agreed |
| S3-233414 | 26/05/2023 09:47:04 | agreed |
| S3-233415 | 26/05/2023 09:47:19 | approved |
| S3-233416 | 26/05/2023 09:47:26 | agreed |
| S3-233417 | 26/05/2023 09:47:34 | agreed |
| S3-233418 | 26/05/2023 09:47:42 | agreed |
| S3-233419 | 26/05/2023 09:47:49 | agreed |
| S3-233420 | 26/05/2023 09:47:56 | agreed |
| S3-233421 | 26/05/2023 09:48:03 | agreed |
| S3-233422 | 26/05/2023 09:48:09 | agreed |
| S3-233423 | 26/05/2023 09:59:55 | reserved |
| S3-233423 | 02/06/2023 14:20:19 | approved |
| S3-233424 | 26/05/2023 10:07:51 | approved |
| S3-233425 | 26/05/2023 10:17:44 | reserved |
| S3-233425 | 02/06/2023 14:20:27 | approved |
| S3-233426 | 26/05/2023 10:31:51 | reserved |
| S3-233426 | 02/06/2023 14:20:52 | approved |
| S3-233427 | 26/05/2023 10:37:09 | approved |
| S3-233428 | 26/05/2023 10:36:37 | reserved |
| S3-233428 | 26/05/2023 12:55:57 | approved |
| S3-233429 | 26/05/2023 12:45:18 | approved |
| S3-233429 | 31/05/2023 09:23:37 | agreed |
| S3-233430 | 26/05/2023 12:52:26 | reserved |
| S3-233430 | 02/06/2023 14:20:48 | agreed |
| S3-233431 | 26/05/2023 12:20:19 | reserved |
| S3-233431 | 26/05/2023 13:01:59 | approved |
| S3-233431 | 31/05/2023 09:24:03 | agreed |
| S3-233432 | 26/05/2023 12:37:47 | approved |
| S3-233432 | 26/05/2023 12:37:48 | agreed |
| S3-233433 | 26/05/2023 12:01:51 | approved |
| S3-233434 | 26/05/2023 12:44:39 | approved |
| S3-233434 | 31/05/2023 09:24:10 | agreed |
| S3-233435 | 26/05/2023 12:43:24 | approved |
| S3-233435 | 31/05/2023 09:24:16 | agreed |
| S3-233436 | 26/05/2023 11:58:47 | approved |
| S3-233437 | 26/05/2023 12:53:25 | approved |
| S3-233437 | 26/05/2023 12:53:28 | agreed |
| S3-233438 | 26/05/2023 12:24:36 | approved |
| S3-233439 | 26/05/2023 12:26:08 | approved |
| S3-233440 | 26/05/2023 12:39:39 | reserved |
| S3-233440 | 02/06/2023 14:20:22 | agreed |
| S3-233441 | 26/05/2023 12:41:12 | reserved |
| S3-233441 | 02/06/2023 14:20:21 | agreed |
| S3-233442 | 26/05/2023 12:55:17 | reserved |
| S3-233442 | 26/05/2023 13:04:09 | approved |
| S3-233442 | 31/05/2023 09:24:27 | agreed |
| S3-233443 | 26/05/2023 12:55:25 | reserved |
| S3-233443 | 26/05/2023 13:52:12 | agreed |
| S3-233444 | 26/05/2023 12:51:14 | reserved |
| S3-233444 | 02/06/2023 14:20:43 | agreed |
| S3-233445 | 26/05/2023 13:51:18 | approved |
| S3-233446 | 26/05/2023 13:35:13 | reserved |
| S3-233446 | 02/06/2023 14:20:54 | approved |
| S3-233447 | 26/05/2023 13:57:01 | reserved |
| S3-233447 | 02/06/2023 13:28:16 | agreed |
| S3-233448 | 30/05/2023 09:25:56 | reserved |
| S3-233448 | 02/06/2023 14:21:20 | approved |
| S3-233449 | 02/06/2023 13:49:27 | agreed |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S3-232410 | Interface Robustness | Nokia, Nokia Shanghai Bell | 33.117 | 0109 | - | Rel-17 | D | SCAS | revised |
| S3-233193 | Interface Robustness | Nokia, Nokia Shanghai Bell | 33.117 | 0109 | 1 | Rel-17 | F | eSCAS\_5G | agreed |
| S3-232411 | Security Event Logging | Nokia, Nokia Shanghai Bell | 33.117 | 0110 | - | Rel-17 | D | SCAS | revised |
| S3-233194 | Security Event Logging | Nokia, Nokia Shanghai Bell | 33.117 | 0110 | 1 | Rel-17 | F | eSCAS\_5G | agreed |
| S3-232412 | Privileged Users | Nokia, Nokia Shanghai Bell | 33.117 | 0111 | - | Rel-17 | D | SCAS | revised |
| S3-233195 | Privileged Users | Nokia, Nokia Shanghai Bell | 33.117 | 0111 | 1 | Rel-17 | F | eSCAS\_5G | agreed |
| S3-232471 | Clarification of hashing | Federal Office for Information Security (BSI) | 33.117 | 0112 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-233346 | Clarification of hashing | Federal Office for Information Security (BSI) | 33.117 | 0112 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232472 | Clarification of privilege escalation methods to check for | BSI (DE) | 33.117 | 0113 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-232474 | Clarification of privilege escalation methods to check for | Federal Office for Information Security (BSI) | 33.117 | 0113 | 1 | Rel-17 | F | eSCAS\_5G | revised |
| S3-233207 | Clarification of privilege escalation methods to check for | Federal Office for Information Security (BSI) | 33.117 | 0113 | 2 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232473 | Clarification of privilege verification | BSI (DE) | 33.117 | 0114 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-232475 | Clarification of privilege verification | Federal Office for Information Security (BSI) | 33.117 | 0114 | 1 | Rel-17 | F | eSCAS\_5G | revised |
| S3-233347 | Clarification of privilege verification | Federal Office for Information Security (BSI) | 33.117 | 0114 | 2 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232772 | SCAS release reference corrections | Huawei, HiSilicon | 33.117 | 0115 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-233260 | SCAS release reference corrections | Huawei, HiSilicon | 33.117 | 0115 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232806 | Security event logging of username | Ericsson | 33.117 | 0116 | - | Rel-16 | F | SCAS\_5G | not pursued |
| S3-232809 | Security event logging of username | Ericsson | 33.117 | 0117 | - | Rel-17 | A | SCAS\_5G | not pursued |
| S3-232821 | Password expiry | Ericsson | 33.117 | 0118 | - | Rel-16 | F | SCAS\_5G | not pursued |
| S3-232823 | Password expiry | Ericsson | 33.117 | 0119 | - | Rel-17 | A | SCAS\_5G | not pursued |
| S3-233239 | SCAS updates to the general catalogue for Release 17 features | Huawei, HiSilicon | 33.117 | 0120 | - | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232604 | CAPF 33.122 Vendor specific Security Methods | Nokia, Nokia Shanghai Bell, Intel, Samsung | 33.122 | 0034 | - | Rel-18 | B | eCAPIF,TEI18 | revised |
| S3-233350 | CAPF 33.122 Vendor specific Security Methods | Nokia, Nokia Shanghai Bell, Intel, Samsung | 33.122 | 0034 | 1 | Rel-18 | F | CAPIF-Sec,TEI18 | agreed |
| S3-232306 | Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC | Telekom Deutschland GmbH | 33.203 | 0269 | - | Rel-18 | F | TEI18 | withdrawn |
| S3-232307 | Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC | Telekom Deutschland GmbH | 33.203 | 0270 | - | Rel-17 | F | TEI17 | revised |
| S3-232808 | Modernization of the Integrity & Encryption Algorithms between UE and P-CSFC | Telekom Deutschland GmbH | 33.203 | 0270 | 1 | Rel-17 | F | TEI17 | not pursued |
| S3-233060 | Removing text and note forbidding ESP dummy packets | Ericsson | 33.203 | 0271 | - | Rel-18 | F | TEI18 | not pursued |
| S3-233062 | Updates to the IKEv2 profile | Ericsson | 33.210 | 0076 | - | Rel-18 | C | DUMMY | not pursued |
| S3-233238 | Updates to eNB SCAS for the support of UP IP | Huawei, HiSilicon | 33.216 | 0025 | - | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-233307 | Living document for GBA DTLS to TS 33.220 | ZTE Corporation | 33.220 | 0220 | - | Rel-18 | B | AKMA\_GBA\_DTLS | revised |
| S3-233379 | Add a new Annex about GBA Ua protocol based on DTLS to TS 33.220 | ZTE Corporation | 33.220 | 0220 | 1 | Rel-18 | B | AKMA\_GBA\_DTLS | agreed |
| S3-232661 | Address ENs in revocation procedures | Huawei, HiSilicon | 33.256 | 0022 | - | Rel-17 | F | ID\_UAS | merged |
| S3-233119 | TS 33.256 EN Cleanup | Lenovo | 33.256 | 0023 | - | Rel-17 | F | ID\_UAS | revised |
| S3-233406 | TS 33.256 EN Cleanup | Lenovo,Huawei | 33.256 | 0023 | 1 | Rel-17 | F | ID\_UAS | agreed |
| S3-232802 | Fix the restricted discovery procedures in LTE ProSe R17 | Huawei, HiSilicon | 33.303 | 0139 | - | Rel-17 | F | TEI17, eProSe-Ext-SA3 | revised |
| S3-233232 | Fix the restricted discovery procedures in LTE ProSe R17 | Huawei, HiSilicon | 33.303 | 0139 | 1 | Rel-17 | F | 5G\_ProSe | agreed |
| S3-232615 | PLMN ID in certificate | Nokia, Nokia Shanghai Bell | 33.310 | 0152 | - | Rel-18 | B | 5G\_eSBA\_Ph2 | revised |
| S3-233110 | PLMN ID in certificate | Nokia, Nokia Shanghai Bell | 33.310 | 0152 | 1 | Rel-18 | B | 5G\_eSBA\_Ph2 | not pursued |
| S3-232671 | Correcting the UUID example in SBA certificates | Ericsson | 33.310 | 0153 | - | Rel-18 | A | 5G\_eSBA | not pursued |
| S3-232672 | Correcting the UUID example in SBA certificates | Ericsson | 33.310 | 0154 | - | Rel-17 | A | 5G\_eSBA | not pursued |
| S3-232673 | Correcting the UUID example in SBA certificates | Ericsson | 33.310 | 0155 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-232675 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | 33.310 | 0156 | - | Rel-18 | A | 5G\_eSBA | not pursued |
| S3-232677 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | 33.310 | 0157 | - | Rel-17 | A | 5G\_eSBA | not pursued |
| S3-232678 | Non-critical X.509 subjectAltName and unique DN following RFC 5280 | Ericsson | 33.310 | 0158 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-232878 | Clarification of SEPP inter-domain certificate profiles | Ericsson | 33.310 | 0159 | - | Rel-18 | A | 5G\_eSBA | not pursued |
| S3-232881 | Clarification of SEPP inter-domain certificate profiles | Ericsson | 33.310 | 0160 | - | Rel-17 | A | 5G\_eSBA | not pursued |
| S3-232883 | Clarification of SEPP inter-domain certificate profiles | Ericsson | 33.310 | 0161 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-233063 | Remove keyEncipherment and KeyAgreement from TLS certificate profile | Ericsson | 33.310 | 0162 | - | Rel-18 | A | CryptPr | not pursued |
| S3-233064 | Remove keyEncipherment and KeyAgreement from TLS certificate profile | Ericsson | 33.310 | 0163 | - | Rel-16 | F | CryptPr | not pursued |
| S3-233065 | Remove keyEncipherment and KeyAgreement from TLS certificate profile | Ericsson | 33.310 | 0164 | - | Rel-17 | A | CryptPr | not pursued |
| S3-232773 | SCAS release reference corrections | Huawei, HiSilicon | 33.326 | 0001 | - | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232704 | Correction on UP IP for EN-DC (R17) | Huawei, HiSilicon | 33.401 | 0714 | - | Rel-17 | F | UPIP\_SEC\_LTE | agreed |
| S3-232705 | Correction on UP IP for EN-DC (R18) | Huawei, HiSilicon | 33.401 | 0715 | - | Rel-18 | A | UPIP\_SEC\_LTE | not pursued |
| S3-232727 | Add security aspect of SEAL Data Delivery enabler | Huawei, HiSilicon, China Mobile, Samsung | 33.434 | 0015 | - | Rel-18 | B | DUMMY | revised |
| S3-233294 | Add security aspect of SEAL Data Delivery enabler | Huawei, HiSilicon, China Mobile, Samsung | 33.434 | 0015 | 1 | Rel-18 | B | DUMMY | agreed |
| S3-233327 | SEAL security for network domain interfaces | Samsung | 33.434 | 0016 | - | Rel-18 | B | SEAL\_Ph3 | agreed |
| S3-232549 | Clarification to the UPU procedures | Qualcomm Incorporated | 33.501 | 1488 | 2 | Rel-17 | F | 5GS\_Ph1-SEC | revised |
| S3-233329 | Clarification to the UPU procedures | Qualcomm Incorporated,Nokia | 33.501 | 1488 | 3 | Rel-17 | A | 5GS\_Ph1-SEC | agreed |
| S3-232499 | TNGF and N3IWF redirection information KI3 solution | Nokia, Nokia Shanghai Bell | 33.501 | 1601 | - | Rel-18 | B | 5WWC\_Ph2\_Sec | merged |
| S3-232521 | Enhancement in UPU procedure to protect UPU header-All 3 solutions | Nokia, Nokia Shanghai Bell | 33.501 | 1602 | - | Rel-17 | F | TEI17 | merged |
| S3-232522 | Enhancement in UPU procedure to protect UPU header-All 3 solutions | Nokia, Nokia Shanghai Bell | 33.501 | 1603 | - | Rel-18 | A | TEI17 | merged |
| S3-232523 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell, | 33.501 | 1604 | - | Rel-16 | F | TEI16 | revised |
| S3-233146 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell, | 33.501 | 1604 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-232524 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell, | 33.501 | 1605 | - | Rel-17 | A | TEI16 | revised |
| S3-233147 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell, | 33.501 | 1605 | 1 | Rel-17 | A | TEI16 | agreed |
| S3-232525 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell | 33.501 | 1606 | - | Rel-18 | A | TEI16 | revised |
| S3-233148 | Correction in N5CW device authentication | Nokia, Nokia Shanghai Bell | 33.501 | 1606 | 1 | Rel-18 | A | TEI16 | agreed |
| S3-232526 | TNGF address handling correction | Nokia, Nokia Shanghai Bell | 33.501 | 1607 | - | Rel-17 | F | TEI17 | merged |
| S3-232527 | TNGF address handling correction | Nokia, Nokia Shanghai Bell | 33.501 | 1608 | - | Rel-18 | A | TEI17 | merged |
| S3-232529 | ME Change issue correction | Nokia, Nokia Shanghai Bell | 33.501 | 1609 | - | Rel-18 | F | TEI18 | not pursued |
| S3-232530 | ME Change issue correction Solution 2 | Nokia, Nokia Shanghai Bell | 33.501 | 1610 | - | Rel-18 | F | TEI18 | withdrawn |
| S3-232550 | Clarification to the UPU procedures | Qualcomm Incorporated | 33.501 | 1611 | - | Rel-18 | A | 5GS\_Ph1-SEC | revised |
| S3-233388 | Clarification to the UPU procedures | Qualcomm Incorporated | 33.501 | 1611 | 1 | Rel-18 | A | 5GS\_Ph1-SEC | agreed |
| S3-232551 | Protection of UPU header | Qualcomm Incorporated | 33.501 | 1612 | - | Rel-18 | F | TEI18, 5GS\_Ph1-SEC | not pursued |
| S3-232564 | IAB inter-CU topology adaptation and backhaul RLF recovery procedures | Qualcomm Incorporated | 33.501 | 1613 | - | Rel-17 | F | TEI17 | not pursued |
| S3-232603 | CR to TS 33.501, 5WWC, Authentication of AUN3 devices behind RG | CableLabs, Charter Communications, Rogers Communications | 33.501 | 1614 | - | Rel-18 | B | 5WWC\_Ph2\_Sec | revised |
| S3-233290 | CR to TS 33.501, 5WWC, Authentication of AUN3 devices behind RG | CableLabs, Charter Communications, Rogers Communications | 33.501 | 1614 | 1 | Rel-18 | B | 5WWC\_Ph2\_Sec | agreed |
| S3-232608 | SBA01 Delegated access token validation | Nokia, Nokia Shanghai Bell | 33.501 | 1615 | - | Rel-18 | B | 5G\_eSBA\_Ph2 | not pursued |
| S3-232662 | Address EN on S-NSSAI mapping | Huawei, HiSilicon | 33.501 | 1616 | - | Rel-17 | F | TEI17 | merged |
| S3-232663 | Address EN on AF Authorization | Huawei, HiSilicon | 33.501 | 1617 | - | Rel-17 | F | TEI17 | merged |
| S3-232664 | NSSAA procedures for multiple registration | Huawei, HiSilicon | 33.501 | 1618 | - | Rel-17 | F | TEI17 | not pursued |
| S3-232690 | CR on control-plane procedure in MBS | Huawei, HiSilicon | 33.501 | 1619 | - | Rel-17 | F | TEI17 | revised |
| S3-233165 | CR on control-plane procedure in MBS | Huawei, HiSilicon | 33.501 | 1619 | 1 | Rel-17 | F | 5MBS | agreed |
| S3-232691 | CR on control-plane procedure in MBS | Huawei, HiSilicon | 33.501 | 1620 | - | Rel-18 | A | TEI18 | revised |
| S3-233166 | CR on control-plane procedure in MBS | Huawei, HiSilicon | 33.501 | 1620 | 1 | Rel-18 | A | 5MBS | agreed |
| S3-232703 | User Consent for Roaming in eNA | Huawei, HiSilicon | 33.501 | 1621 | - | Rel-18 | B | DUMMY | revised |
| S3-233293 | User Consent for Roaming in eNA | Huawei, HiSilicon | 33.501 | 1621 | 1 | Rel-18 | B | TEI18 | agreed |
| S3-232739 | CR on N3IWF and TNGF relocation | Huawei, HiSilicon | 33.501 | 1622 | - | Rel-18 | B | 5WWC\_Ph2 | revised |
| S3-233272 | CR on N3IWF and TNGF relocation | Huawei, HiSilicon | 33.501 | 1622 | 1 | Rel-18 | B | 5WWC\_Ph2\_Sec | agreed |
| S3-232740 | CR on AUN3 device registration | Huawei, HiSilicon | 33.501 | 1623 | - | Rel-18 | B | 5WWC\_Ph2 | not pursued |
| S3-232789 | Security for EAS discovery in non-roaming case | Huawei, HiSilicon | 33.501 | 1624 | - | Rel-17 | F | eEDGE\_5GC | revised |
| S3-233341 | Security for EAS discovery in non-roaming case | Huawei, HiSilicon | 33.501 | 1624 | 1 | Rel-17 | F | eEDGE\_5GC | agreed |
| S3-232790 | Security for EAS discovery in non-roaming case | Huawei, HiSilicon | 33.501 | 1625 | - | Rel-18 | A | eEDGE\_5GC | revised |
| S3-233342 | Security for EAS discovery in non-roaming case | Huawei, HiSilicon | 33.501 | 1625 | 1 | Rel-18 | A | eEDGE\_5GC | agreed |
| S3-232798 | SN authentication for R17 NSWO | Huawei, HiSilicon | 33.501 | 1626 | - | Rel-17 | F | eNPN | not pursued |
| S3-232799 | CR on N5CW registration key generation | Huawei, HiSilicon | 33.501 | 1627 | - | Rel-16 | F | TEI16 | merged |
| S3-232800 | Security of CPAC | Huawei, HiSilicon | 33.501 | 1628 | - | Rel-17 | F | TEI17 | revised |
| S3-233353 | Security of CPAC | Huawei, HiSilicon | 33.501 | 1628 | 1 | Rel-17 | F | TEI17 | agreed |
| S3-232801 | Security of CPAC | Huawei, HiSilicon | 33.501 | 1629 | - | Rel-18 | A | TEI17 | revised |
| S3-233354 | Security of CPAC | Huawei, HiSilicon | 33.501 | 1629 | 1 | Rel-18 | A | TEI17 | agreed |
| S3-232804 | Add service area in TS33.501 | Huawei, HiSilicon | 33.501 | 1630 | - | Rel-17 | F | eNA\_Ph2 | not pursued |
| S3-232812 | SERP-CR on security protection on RRCResumeRequest message | Apple | 33.501 | 1631 | - | Rel-18 | C | SERP | not pursued |
| S3-232814 | CR on TS 33.501 on IRAT security | Apple | 33.501 | 1632 | - | Rel-18 | F | TEI18 | not pursued |
| S3-232815 | CR on 33501\_s1n1\_idlemode\_mapped\_ctxt | Apple | 33.501 | 1633 | - | Rel-18 | F | TEI18 | not pursued |
| S3-232838 | Clarification on data-type encryption policy | Huawei, HiSilicon | 33.501 | 1634 | - | Rel-18 | F | TEI18 | revised |
| S3-233343 | Clarification on data-type encryption policy | Huawei, HiSilicon | 33.501 | 1634 | 1 | Rel-18 | F | TEI18 | agreed |
| S3-232840 | Correction of authorization between SEPP and network functions | Huawei, HiSilicon | 33.501 | 1635 | - | Rel-18 | F | TEI18 | not pursued |
| S3-232851 | Authentication result removal | Huawei, HiSilicon | 33.501 | 1636 | - | Rel-17 | F | TEI17 | not pursued |
| S3-232852 | Authorization of NF service consumers for data access via DCCF | Nokia, Nokia Shanghai Bell | 33.501 | 1637 | - | Rel-17 | F | eNA\_Ph2 | revised |
| S3-233154 | Authorization of NF service consumers for data access via DCCF | Nokia, Nokia Shanghai Bell | 33.501 | 1637 | 1 | Rel-17 | F | eNA\_Ph2 | agreed |
| S3-232862 | Transport security for DNS | Ericsson | 33.501 | 1638 | - | Rel-18 | F | DUMMY | not pursued |
| S3-232871 | Authorization of NF service consumers for data access via DCCF | Nokia Poland | 33.501 | 1639 | - | Rel-18 | A | eNA\_Ph2 | revised |
| S3-233155 | Authorization of NF service consumers for data access via DCCF | Nokia Poland | 33.501 | 1639 | 1 | Rel-18 | A | eNA\_Ph2 | agreed |
| S3-232885 | Verification of the serving network name by the AUSF | Ericsson | 33.501 | 1640 | - | Rel-17 | F | TEI17 | not pursued |
| S3-232886 | Verification of the serving network name by the AUSF | Ericsson | 33.501 | 1641 | - | Rel-18 | A | TEI17 | not pursued |
| S3-232887 | Correction of the authorization of NF Service Consumers for data access via DCCF | Ericsson | 33.501 | 1642 | - | Rel-17 | F | eNA\_Ph2 | merged |
| S3-232888 | Correction of the authorization of NF Service Consumers for data access via DCCF | Ericsson | 33.501 | 1643 | - | Rel-18 | A | eNA\_Ph2 | merged |
| S3-232889 | Correction of procedures for N3GPP trusted access | Ericsson | 33.501 | 1644 | - | Rel-16 | F | 5WWC | revised |
| S3-233149 | Correction of procedures for N3GPP trusted access | Ericsson | 33.501 | 1644 | 1 | Rel-16 | F | 5WWC | agreed |
| S3-232890 | Correction of procedures for N3GPP trusted access | Ericsson | 33.501 | 1645 | - | Rel-17 | A | 5WWC | revised |
| S3-233150 | Correction of procedures for N3GPP trusted access | Ericsson | 33.501 | 1645 | 1 | Rel-17 | A | 5WWC | agreed |
| S3-232891 | Correction of procedures for N3GPP trusted access | Ericsson | 33.501 | 1646 | - | Rel-18 | A | 5WWC | revised |
| S3-233151 | Correction of procedures for N3GPP trusted access | Ericsson | 33.501 | 1646 | 1 | Rel-18 | A | 5WWC | agreed |
| S3-232892 | Correction of procedures for N5CW | Ericsson | 33.501 | 1647 | - | Rel-16 | F | 5WWC | merged |
| S3-232893 | Correction of procedures for N5CW | Ericsson | 33.501 | 1648 | - | Rel-17 | A | 5WWC | merged |
| S3-232894 | Correction of procedures for N5CW | Ericsson | 33.501 | 1649 | - | Rel-18 | A | 5WWC | merged |
| S3-232895 | Clarification on access token requests for NF Producers of a specific NF type and token-based authorization for indirect communication with delegated discovery | Ericsson | 33.501 | 1650 | - | Rel-18 | B | 5G\_eSBA\_Ph2 | not pursued |
| S3-233215 | Clarification on access token requests for NF Producers of a specific NF type and token-based authorization for indirect communication with delegated discovery | Ericsson | 33.501 | 1650 | 1 | Rel-18 | B | 5G\_eSBA\_Ph2 | withdrawn |
| S3-232947 | Validation of the parameters sent by OAuth 2.0 client (NF Service Consumer) in the access token request. | Ericsson | 33.501 | 1651 | - | Rel-18 | C | 5G\_eSBA\_Ph2 | not pursued |
| S3-232979 | R17 Update Subscription and unsubscription procedure of NSACF notification service | Xiaomi | 33.501 | 1652 | - | Rel-17 | F | TEI17 | merged |
| S3-232980 | R18 Update Subscription and unsubscription procedure of NSACF notification service (mirror) | Xiaomi | 33.501 | 1653 | - | Rel-18 | A | TEI18 | merged |
| S3-233019 | Rel17 Clarification on AF authorization for the NSACF notification procedure | Ericsson | 33.501 | 1654 | - | Rel-17 | F | eNS2\_SEC | revised |
| S3-233376 | Rel17 Clarification on AF authorization for the NSACF notification procedure | Ericsson | 33.501 | 1654 | 1 | Rel-17 | F | TEI17,eNS | agreed |
| S3-233020 | Rel17 Alignment of NSACF notification procedure with existing procedures | Ericsson | 33.501 | 1655 | - | Rel-17 | F | eNS2\_SEC | merged |
| S3-233021 | Rel18 Clarification on AF authorization for the NSACF notification procedure | Ericsson | 33.501 | 1656 | - | Rel-18 | A | eNS2\_SEC | revised |
| S3-233380 | Rel18 Clarification on AF authorization for the NSACF notification procedure | Ericsson | 33.501 | 1656 | 1 | Rel-18 | A | TEI17,eNS | agreed |
| S3-233022 | Rel18 Alignment of NSACF notification procedure with existing procedures | Ericsson | 33.501 | 1657 | - | Rel-18 | A | eNS2\_SEC | merged |
| S3-233044 | [IAB][Rel-17] IAB inter-CU topology adaptation procedure | Samsung, Huawei, HiSilicon | 33.501 | 1658 | - | Rel-17 | F | TEI17 | revised |
| S3-233131 | [IAB][Rel-17] IAB inter-CU topology adaptation procedure | Samsung, Huawei, HiSilicon | 33.501 | 1658 | 1 | Rel-17 | F | TEI17 | not pursued |
| S3-233045 | [IAB][Rel-18] IAB inter-CU topology adaptation procedure | Samsung, Huawei, HiSilicon | 33.501 | 1659 | - | Rel-18 | B | TEI18 | not pursued |
| S3-233061 | Updates of obsoleted RFCs | Ericsson | 33.501 | 1660 | - | Rel-18 | F | DUMMY | not treated |
| S3-233080 | Clarification of the intended usage and requirements for user consent framework Rel-17 | Ericsson | 33.501 | 1661 | - | Rel-17 | F | UC3S\_SEC | not pursued |
| S3-233081 | Clarification of the intended usage and requirements for user consent framework Rel-18 | Ericsson | 33.501 | 1662 | - | Rel-18 | F | UC3S\_SEC | not pursued |
| S3-233095 | Add restriction on UE for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | 33.501 | 1663 | - | Rel-16 | F | TEI16 | not pursued |
| S3-233096 | Add restriction on 5GC for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | 33.501 | 1664 | - | Rel-16 | F | TEI16 | not pursued |
| S3-233098 | control on NSSAA procedures for multi registrations in two PLMNs | Nokia, Nokia Shanghai Bell | 33.501 | 1665 | - | Rel-16 | F | TEI16 | not pursued |
| S3-233113 | AF accessing 5GC assistance information in AI/ML | OPPO | 33.501 | 1666 | - | Rel-18 | F | TEI18 | not pursued |
| S3-233352 | Access token request handling by NRF | Nokia, Nokia Shanghai Bell | 33.501 | 1667 | - | Rel-18 | F | 5G\_eSBA\_Ph2 | agreed |
| S3-233389 | Clarification to the UPU procedures | Qualcomm Incorporated | 33.501 | 1668 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-233390 | Clarification to the UPU procedures | Qualcomm Incorporated | 33.501 | 1669 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-233440 | Introducing Home Trigger primary authentication procedure | Huawei, HiSilicon | 33.501 | 1670 | - | Rel-18 | B | HN\_Auth | agreed |
| S3-233444 | Security aspects of enhanced support of Non-Public Networks phase 2 | Ericsson | 33.501 | 1671 | - | Rel-18 | B | eNPN\_Ph2 | agreed |
| S3-232417 | U2N relay direct link setup failure due to RSC mismatch or integrity failure | Ericsson | 33.503 | 0097 | - | Rel-17 | F | 5G\_ProSe | not pursued |
| S3-232617 | Correction in 5G ProSe Direct Discovery | China Telecommunications | 33.503 | 0098 | - | Rel-17 | F | 5G\_ProSe | withdrawn |
| S3-232620 | Correction in 5G ProSe Direct Discovery | China Telecom | 33.503 | 0099 | - | Rel-17 | F | 5G\_ProSe | agreed |
| S3-232728 | DDNMF selection in UE-to-Network Relay discovery procedure | Huawei, HiSilicon | 33.503 | 0100 | - | Rel-17 | F | 5G\_ProSe | merged |
| S3-232731 | Clarification on discovery of PKMF of Relay UE by the SMF | Huawei, HiSilicon | 33.503 | 0101 | - | Rel-17 | F | 5G\_ProSe | not treated |
| S3-232793 | Fix the restricted discovery procedures in 5G ProSe | Huawei, HiSilicon | 33.503 | 0102 | - | Rel-17 | F | 5G\_ProSe | revised |
| S3-233185 | Fix the restricted discovery procedures in 5G ProSe | Huawei, HiSilicon | 33.503 | 0102 | 1 | Rel-17 | F | 5G\_ProSe | agreed |
| S3-233074 | CR to TR33.503 Editorial changes | CATT | 33.503 | 0103 | - | Rel-17 | F | 5G\_ProSe | agreed |
| S3-233075 | CR to TR33.503 Define missing reference points | CATT | 33.503 | 0104 | - | Rel-17 | F | 5G\_ProSe | agreed |
| S3-233102 | Locate target DDNMF in U2N discovery security procdure | Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi | 33.503 | 0105 | - | Rel-17 | F | TEI17 | revised |
| S3-233377 | Locate target DDNMF in U2N discovery security procdure | Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi | 33.503 | 0105 | 1 | Rel-17 | F | TEI17 | agreed |
| S3-233103 | Update discovery key response of U2N discovery security procdure | Nokia, Nokia Shanghai Bell | 33.503 | 0106 | - | Rel-17 | F | TEI17 | not treated |
| S3-233105 | Direct discovery security procdure | Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi | 33.503 | 0107 | - | Rel-17 | F | TEI17 | not pursued |
| S3-233106 | UE to Network Relay discovery security procdure | Nokia, Nokia Shanghai Bell, China Telecom, Xiaomi | 33.503 | 0108 | - | Rel-17 | F | TEI17 | not pursued |
| S3-232544 | Correcting some references in TS 33.511 | Qualcomm Incorporated | 33.511 | 0040 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-232545 | Correcting some references in TS 33.511 | Qualcomm Incorporated | 33.511 | 0041 | - | Rel-17 | A | SCAS\_5G | revised |
| S3-233117 | Correcting some references in TS 33.511 | Qualcomm Incorporated | 33.511 | 0041 | 1 | Rel-17 | A | SCAS\_5G | agreed |
| S3-232771 | SCAS release reference corrections | Huawei, HiSilicon | 33.511 | 0042 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-233259 | SCAS release reference corrections | Huawei, HiSilicon | 33.511 | 0042 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232822 | Introduction of user data protection over N3 | Nokia, Nokia Shanghai Bell | 33.511 | 0043 | - | Rel-17 | B | SCAS\_5G | not pursued |
| S3-233447 | Changes for SCAS gNB for Rel18 | Keysight Technologies UK Ltd | 33.511 | 0044 | - | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232441 | Robustness interfaces and protocols defined for AMF | Keysight Technologies UK Ltd | 33.512 | 0024 | - | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233413 | Robustness interfaces and protocols defined for AMF | Keysight Technologies UK Ltd | 33.512 | 0024 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232452 | Clarification of synchronization failure handling | BSI (DE) | 33.512 | 0025 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-232476 | Clarification of synchronization failure handling | BSI (DE) | 33.512 | 0025 | 1 | Rel-17 | F | eSCAS\_5G | revised |
| S3-233208 | Clarification of synchronization failure handling | BSI (DE) | 33.512 | 0025 | 2 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232454 | Clarification of RES\* verification failure handling | Federal Office for Information Security (BSI) | 33.512 | 0026 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-233130 | Clarification of RES\* verification failure handling | Federal Office for Information Security (BSI) | 33.512 | 0026 | 1 | Rel-17 | F | eSCAS\_5G | revised |
| S3-233338 | Clarification of RES\* verification failure handling | Federal Office for Information Security (BSI) | 33.512 | 0026 | 2 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232456 | Clarification of Replay Protection of NAS signalling messages | Federal Office for Information Security (BSI) | 33.512 | 0027 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-233134 | Clarification of Replay Protection of NAS signalling messages | Federal Office for Information Security (BSI) | 33.512 | 0027 | 1 | Rel-17 | F | eSCAS\_5G | not treated |
| S3-232458 | Clarification of NAS integrity algorithm selection and use | BSI (DE) | 33.512 | 0028 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-232504 | Clarification of NAS integrity algorithm selection and use | Federal Office for Information Security (BSI) | 33.512 | 0028 | 1 | Rel-17 | F | eSCAS\_5G | revised |
| S3-233135 | Clarification of NAS integrity algorithm selection and use | Federal Office for Information Security (BSI) | 33.512 | 0028 | 2 | Rel-17 | F | eSCAS\_5G | not treated |
| S3-232459 | Clarification of invalid or unacceptable UE security capabilities handling | BSI (DE) | 33.512 | 0029 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-232477 | Clarification of invalid or unacceptable UE security capabilities handling | BSI (DE) | 33.512 | 0029 | 1 | Rel-17 | F | eSCAS\_5G | revised |
| S3-232509 | Clarification of invalid or unacceptable UE security capabilities handling | Federal Office for Information Security (BSI) | 33.512 | 0029 | 2 | Rel-17 | F | eSCAS\_5G | revised |
| S3-233133 | Clarification of invalid or unacceptable UE security capabilities handling | Federal Office for Information Security (BSI) | 33.512 | 0029 | 3 | Rel-17 | F | eSCAS\_5G | not treated |
| S3-232461 | Clarification of NSSAA revocation | Federal Office for Information Security (BSI) | 33.512 | 0030 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-233204 | Clarification of NSSAA revocation | Federal Office for Information Security (BSI) | 33.512 | 0030 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232463 | Clarification of test applicability | BSI (DE) | 33.512 | 0031 | - | Rel-17 | D | eSCAS\_5G | revised |
| S3-232505 | Clarification of test applicability | Federal Office for Information Security (BSI) | 33.512 | 0031 | 1 | Rel-17 | D | SCAS\_5G\_Ph2 | revised |
| S3-233348 | Clarification of test applicability | Federal Office for Information Security (BSI) | 33.512 | 0031 | 2 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232464 | Correction of Tester Instructions in Expected Results | BSI (DE) | 33.512 | 0032 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-232507 | Correction of Tester Instructions in Expected Results | BSI (DE) | 33.512 | 0032 | 1 | Rel-17 | F | eSCAS\_5G | revised |
| S3-232508 | Correction of Tester Instructions in Expected Results | Federal Office for Information Security (BSI) | 33.512 | 0032 | 2 | Rel-17 | F | eSCAS\_5G | revised |
| S3-233334 | Correction of Tester Instructions in Expected Results | Federal Office for Information Security (BSI) | 33.512 | 0032 | 3 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232465 | Correction of format of evidence | BSI (DE) | 33.512 | 0033 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-232506 | Correction of format of evidence | Federal Office for Information Security (BSI) | 33.512 | 0033 | 1 | Rel-17 | F | eSCAS\_5G | revised |
| S3-233333 | Correction of format of evidence | Federal Office for Information Security (BSI) | 33.512 | 0033 | 2 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232466 | Clarification of whether tester triggers an event or NF behaviour is observed in an Execution Step | BSI (DE) | 33.512 | 0034 | - | Rel-17 | F | SCAS\_5G\_Ph2 | revised |
| S3-233345 | Clarification of whether tester triggers an event or NF behaviour is observed in an Execution Step | BSI (DE) | 33.512 | 0034 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232467 | New SCAS test on valid UE security capability encoding while AS security establishment | Federal Office for Information Security (BSI) | 33.512 | 0035 | - | Rel-17 | B | eSCAS\_5G | revised |
| S3-233205 | New SCAS test on valid UE security capability encoding while AS security establishment | Federal Office for Information Security (BSI) | 33.512 | 0035 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232468 | Threat reference for incorrectly encoded UE 5G security capabilities on the AMF NG interface | BSI (DE) | 33.512 | 0036 | - | Rel-17 | B | eSCAS\_5G | withdrawn |
| S3-232762 | SCAS release reference corrections | Huawei, HiSilicon | 33.512 | 0037 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-233253 | SCAS release reference corrections | Huawei, HiSilicon | 33.512 | 0037 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232770 | SCAS release reference corrections | Huawei, HiSilicon | 33.513 | 0010 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-233258 | SCAS release reference corrections | Huawei, HiSilicon | 33.513 | 0010 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232843 | Correction of SBA test for UPF | Huawei, Hisilicon | 33.513 | 0011 | - | Rel-16 | F | SCAS\_5G | revised |
| S3-233335 | Correction of SBA test for UPF | Huawei, Hisilicon | 33.513 | 0011 | 1 | Rel-16 | F | SCAS\_5G | agreed |
| S3-232844 | correction of SBA test for UPF-r17 | Huawei, HiSilicon | 33.513 | 0012 | - | Rel-17 | A | SCAS\_5G | revised |
| S3-233337 | correction of SBA test for UPF-r17 | Huawei, HiSilicon | 33.513 | 0012 | 1 | Rel-17 | A | SCAS\_5G | agreed |
| S3-233392 | Changes for SCAS UPF for Rel18 | Keysight Technologies UK Ltd | 33.513 | 0013 | - | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232451 | Robustness interfaces and protocols defined for UDM | Keysight Technologies UK Ltd | 33.514 | 0006 | - | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233422 | Robustness interfaces and protocols defined for UDM | Keysight Technologies UK Ltd | 33.514 | 0006 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232769 | SCAS release reference corrections | Huawei, HiSilicon | 33.514 | 0007 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-233257 | SCAS release reference corrections | Huawei, HiSilicon | 33.514 | 0007 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232450 | Robustness interfaces and protocols defined for SMF | Keysight Technologies UK Ltd | 33.515 | 0009 | - | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233421 | Robustness interfaces and protocols defined for SMF | Keysight Technologies UK Ltd | 33.515 | 0009 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232768 | SCAS release reference corrections | Huawei, HiSilicon | 33.515 | 0010 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-233256 | SCAS release reference corrections | Huawei, HiSilicon | 33.515 | 0010 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232442 | Robustness interfaces and protocols defined for AUSF | Keysight Technologies UK Ltd | 33.516 | 0005 | - | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233414 | Robustness interfaces and protocols defined for AUSF | Keysight Technologies UK Ltd | 33.516 | 0005 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232767 | SCAS release reference corrections | Huawei, HiSilicon | 33.516 | 0006 | - | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232409 | New SCAS test on trust anchoring | BSI (DE) | 33.517 | 0010 | - | Rel-17 | B | eSCAS\_5G | revised |
| S3-232419 | New SCAS test on trust anchoring | Federal Office for Information Security (BSI) | 33.517 | 0010 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233244 | New SCAS test on trust anchoring | Federal Office for Information Security (BSI) | 33.517 | 0010 | 2 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232449 | Robustness interfaces and protocols defined for SEPP | Keysight Technologies UK Ltd | 33.517 | 0011 | - | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233420 | Robustness interfaces and protocols defined for SEPP | Keysight Technologies UK Ltd | 33.517 | 0011 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232766 | SCAS release reference corrections | Huawei, HiSilicon | 33.517 | 0012 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-233255 | SCAS release reference corrections | Huawei, HiSilicon | 33.517 | 0012 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232445 | Robustness interfaces and protocols defined for NRF | Keysight Technologies UK Ltd | 33.518 | 0003 | - | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233417 | Robustness interfaces and protocols defined for NRF | Keysight Technologies UK Ltd | 33.518 | 0003 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232765 | SCAS release reference corrections | Huawei, HiSilicon | 33.518 | 0004 | - | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232444 | Robustness interfaces and protocols defined for NEF | Keysight Technologies UK Ltd | 33.519 | 0004 | - | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233416 | Robustness interfaces and protocols defined for NEF | Keysight Technologies UK Ltd | 33.519 | 0004 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232764 | SCAS release reference corrections | Huawei, HiSilicon | 33.519 | 0005 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-233254 | SCAS release reference corrections | Huawei, HiSilicon | 33.519 | 0005 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232447 | Robustness interfaces and protocols defined for NWDAF | Keysight Technologies UK Ltd | 33.521 | 0004 | - | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233418 | Robustness interfaces and protocols defined for NWDAF | Keysight Technologies UK Ltd | 33.521 | 0004 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232448 | Robustness interfaces and protocols defined for SCP | Keysight Technologies UK Ltd | 33.522 | 0003 | - | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233419 | Robustness interfaces and protocols defined for SCP | Keysight Technologies UK Ltd | 33.522 | 0003 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232763 | SCAS release reference corrections | Huawei, HiSilicon | 33.522 | 0004 | - | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232531 | AKMA Service disable or withdrawn | Nokia, Nokia Shanghai Bell | 33.535 | 0152 | - | Rel-18 | F | AKMA | withdrawn |
| S3-232870 | Clarification on the description about AAnF | China Telecommunications | 33.535 | 0153 | - | Rel-17 | F | AKMA | not pursued |
| S3-233405 | AKMA ph2 security enhancement | China Mobile | 33.535 | 0154 | - | Rel-18 | B | AKMA\_Ph2 | agreed |
| S3-233441 | KAKMA re-keying relaed to HONTRA | Huawei, HiSilicon | 33.535 | 0155 | - | Rel-18 | B | HN\_Auth | agreed |
| S3-233076 | 4.9.3 - Correction in clause 5.3.3.1.2.3 of TS 33.536 | Philips International B.V. | 33.536 | 0029 | - | Rel-17 | F | eV2XARC | withdrawn |
| S3-232439 | Robustness interfaces and protocols defined for AAnF | Keysight Technologies UK Ltd | 33.537 | 0001 | - | Rel-18 | B | SCAS\_5G\_Ph2 | withdrawn |
| S3-232440 | Robustness interfaces and protocols defined for AAnF | Keysight Technologies UK Ltd | 33.537 | 0002 | - | Rel-18 | B | SCAS\_5G\_Ph2 | revised |
| S3-233412 | Robustness interfaces and protocols defined for AAnF | Keysight Technologies UK Ltd | 33.537 | 0002 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232761 | SCAS release reference corrections | Huawei, HiSilicon | 33.537 | 0003 | - | Rel-18 | F | SCAS\_5G\_Ph2 | revised |
| S3-233252 | SCAS release reference corrections | Huawei, HiSilicon | 33.537 | 0003 | 1 | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232853 | Addressing security of Edge Node Sharing | Ericsson | 33.558 | 0011 | - | Rel-18 | B | EDGE\_Ph2 | not treated |
| S3-232856 | Token-based EES authorization | Ericsson | 33.558 | 0012 | - | Rel-18 | B | EDGE\_Ph2 | not treated |
| S3-232859 | EEC authentication and authentication method negotiation | Ericsson | 33.558 | 0013 | - | Rel-18 | B | EDGE\_Ph2 | revised |
| S3-233173 | EEC authentication and authentication method negotiation | Ericsson | 33.558 | 0013 | 1 | Rel-18 | B | EDGE\_Ph2 | not pursued |
| S3-232860 | GPSI verification | Ericsson | 33.558 | 0014 | - | Rel-18 | B | EDGE\_Ph2 | not pursued |
| S3-233241 | Clarification on SCAS | Huawei, HiSilicon | 33.916 | 0012 | - | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232538 | Introducing split gNBs into TR 33.926 | Qualcomm Incorporated | 33.926 | 0066 | 1 | Rel-18 | B | SCAS\_5G\_split\_gNB | agreed |
| S3-232469 | Threat reference for incorrectly encoded UE 5G security capabilities on the AMF NG interface | Federal Office for Information Security (BSI) | 33.926 | 0067 | - | Rel-17 | B | eSCAS\_5G | revised |
| S3-233206 | Threat reference for incorrectly encoded UE 5G security capabilities on the AMF NG interface | Federal Office for Information Security (BSI) | 33.926 | 0067 | 1 | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |
| S3-232546 | Correcting some references in TS 33.926 | Qualcomm Incorporated | 33.926 | 0068 | - | Rel-16 | F | SCAS, TEI16 | revised |
| S3-233129 | Correcting some references in TS 33.926 | Qualcomm Incorporated | 33.926 | 0068 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-232547 | Correcting some references in TS 33.926 | Qualcomm Incorporated | 33.926 | 0069 | - | Rel-17 | A | SCAS, TEI16 | revised |
| S3-233118 | Correcting some references in TS 33.926 | Qualcomm Incorporated | 33.926 | 0069 | 1 | Rel-17 | A | TEI16 | agreed |
| S3-232757 | Annex for MnF product class | Huawei, HiSilicon | 33.926 | 0070 | - | Rel-18 | B | SCAS\_5G\_MF | agreed |
| S3-232774 | SCAS release reference corrections | Huawei, HiSilicon | 33.926 | 0071 | - | Rel-18 | F | SCAS\_5G\_Ph2 | agreed |
| S3-232775 | Correction of annex for NSSAAF product class | Huawei, HiSilicon | 33.926 | 0072 | - | Rel-17 | B | SCAS\_5G\_NSSAAF | not pursued |
| S3-232929 | Converting the living document of AAnF SCAS to CR | China Mobile | 33.926 | 0073 | - | Rel-18 | B | SCAS\_5G\_AAnF | revised |
| S3-233203 | Adding critical assest and threats of AAnF | China Mobile | 33.926 | 0073 | 1 | Rel-18 | B | SCAS\_5G\_AAnF | agreed |
| S3-233211 | SCAS updates to threats and assets for Release 17 features | Huawei, HiSilicon | 33.926 | 0074 | - | Rel-18 | B | SCAS\_5G\_Ph2 | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-232308 | C1-231128 | Reply LS on UE event reporting over a user plane connection to LCS client or AF | C1-231128 | noted | (none) |
| S3-232309 | C1-231129 | LS on LPP message and supplementary service event report over a user plane connection between UE and LMF | C1-231129 | noted | (none) |
| S3-232310 | C1-231170 | Reply LS on clarification of coding of hexadecimal digits in SUCI NAI | C1-231170 | noted | (none) |
| S3-232311 | C1-232650 | Reply LS on 3GPP work on Energy Efficiency | C1-232650 | noted | (none) |
| S3-232312 | C1-232696 | LS on Handling of SOR counter and the UE parameter update counter if stored in NVM | C1-232696 | postponed | S3-233152 |
| S3-232313 | C1-232756 | Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks | C1-232756 | noted | (none) |
| S3-232314 | C3-231470 | Reply LS on 3GPP work on Energy Efficiency | C3-231470 | noted | (none) |
| S3-232315 | C3-231717 | Reply LS on UE event reporting over a user plane connection to LCS client or AF | C3-231717 | noted | (none) |
| S3-232316 | C4-224418 | LS on Authentication Result Removal | C4-224418 | postponed | (none) |
| S3-232317 | C4-225161 | LS on Authorization of NF service consumers for data access via DCCF | C4-225161 | replied to | S3-233143 |
| S3-232318 | C4-230487 | Reply-LS on Research highlighting potential negated OAuth policy | C4-230487 | noted | (none) |
| S3-232319 | C4-230547 | LS Reply on PRINS middle boxes | C4-230547 | noted | (none) |
| S3-232320 | C4-230628 | Reply LS on Identifier availability for Lawful Interception during Inter-PLMN handover | C4-230628 | noted | (none) |
| S3-232321 | C4-230692 | Reply-LS on Research highlighting potential need for granular level checks using "Additional scope" under the OAuth2.0 Token Access | C4-230692 | noted | (none) |
| S3-232322 | C4-230790 | LS on Removal of the uavAuthenticated IE from Create SM Context Request | C4-230790 | postponed | S3-232923 |
| S3-232323 | C4-231395 | LS on clarification of coding of hexadecimal digits in SUCI NAI | C4-231395 | noted | (none) |
| S3-232324 | C6-220715 | LS on clarification of coding of hexadecimal digits in SUCI NAI | C6-220715 | noted | (none) |
| S3-232325 | R2-2304559 | LS to SA3 on security for L2 UE-to-UE relay | R2-2304559 | replied to | S3-233323 |
| S3-232326 | S2-2303304 | Reply LS on 5G capabilities exposure for factories of the future – identified gaps (5G-ACIA-LS-2022-005 / S2-2302175) | S2-2303304 | noted | (none) |
| S3-232327 | S2-2303310 | Reply LS on Security architecture for 5G multicast/broadcast services | S2-2303310 | replied to | S3-233139 |
| S3-232328 | S2-2305726 | Reply LS to Reply LS to LS on SL positioning groupcast and broadcast | S2-2305726 | noted | (none) |
| S3-232329 | S2-2305727 | LS on security aspects for Ranging/Sidelink Positioning | S2-2305727 | replied to | S3-233438 |
| S3-232330 | S2-2305735 | Reply LS to LS to SA2 on Sidelink positioning procedure | S2-2305735 | noted | (none) |
| S3-232331 | S2-2305883 | Reply to LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service | S2-2305883 | noted | (none) |
| S3-232332 | S2-2306210 | DNS over TLS (DoT) and DNS over HTTPS (DoH) | S2-2306210 | postponed | (none) |
| S3-232333 | S4-230346 | Reply LS on security architecture for 5G multicast–broadcast services | S4-230346 | replied to | S3-233439 |
| S3-232334 | S5-232903 | LS on 3GPP work on Energy Efficiency | S5-232903 | noted | (none) |
| S3-232335 | S5-233546 | Reply LS on secured and trusted access to the serving PLMN OAM server by a MBSR | S5-233546 | noted | (none) |
| S3-232336 | S6-230351 | LS on user consent for UE location sharing | S6-230351 | postponed | (none) |
| S3-232337 | S6-230945 | LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service | S6-230945 | replied to | S3-233140 |
| S3-232338 | S6-231061 | Reply LS on FS\_eEDGEAPP Solution for Support of NAT deployed within the edge data network | S6-231061 | postponed | (none) |
| S3-232339 | S6-231068 | LS reply to TSG SA on LS 5G-ACIA-LS-2022-005 on 5G capabilities exposure for factories of the future – identified gaps from 5G ACIA | S6-231068 | noted | (none) |
| S3-232340 | S6-2314231 | LS on Clarification on KMS provisioning | S6-231423 | replied to | S3-233410 |
| S3-232341 | S6-231552 | LS on resolving the target KMS URI for a migrated MC service user | S6-231552 | postponed | (none) |
| S3-232342 | S6-231604 | LS reply on the use of a non-network defined identifier for UE identification | S6-231604 | noted | (none) |
| S3-232343 | SP-2303842 | Reply LS on 5G capabilities exposure for factories of the future – identified gaps | SP-230384 | noted | (none) |
| S3-232344 |  | LS to 3GPP on GSMA requirements for intermediaries in the roaming ecosystem | GSMA | postponed | (none) |
| S3-232345 |  | LS to 3GPP Bidding-Down Attacks in 5G and 4G v5 | GSMA | replied to | S3-233321 |
| S3-232346 |  | LS to 3GPP regarding SCTP-AUTH and DTLS | IETF Transport Area Working Group | replied to | S3-233355 |
| S3-232347 |  | LS to SA3-LI on Volte roaming lawful interception - limitation to provide caller identify if caller activates OIR | GSMA | noted | (none) |
| S3-232348 |  | LS to inform about the Post Quantum Telco Network Impact Assessment Whitepaper Publication | GSMA | noted | (none) |
| S3-232349 |  | Reply LS on Mapping of F1-C IP addresses in the IAB inter-CU topology adaptation and backhaul RLF recovery procedures | R3-232166 | noted | (none) |
| S3-232350 |  | Reply LS on lawful interception EPS fallback for 5G inbound roamer | S3i230149 | noted | (none) |
| S3-232351 |  | LS on addition of filler IEI for User-Data Header | s3i230317 | noted | (none) |
| S3-232352 |  | An Invitation to the SA4 Gender Diversity Committee Meetings | S4-230431 | noted | (none) |
| S3-232353 |  | Specification of the 256-bit air interface algorithms | ETSI SAGE | replied to | S3-233212 |
| S3-232354 |  | Reply LS to 3GPP SA2 on analytics exchange between different 5G PLMNs | GSMA | noted | (none) |
| S3-232355 |  | Reply LS to 3GPP SA2 on UE specific data and analytics exchange between HPLMN and VPLMN | GSMA | noted | (none) |
| S3-232430 |  | LS to 3GPP SA3 on ETSI MEC discussion on possible new requirements for AKMA framework | ETSI MEC | replied to | S3-233142 |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-233139 | Reply to: Reply LS on Security architecture for 5G multicast/broadcast services | SA2 | SA4,CT4 | S3-232327 |
| S3-233140 | Reply LS on AFId parameter value in EES invocation of Nnef\_UEId\_Get service | SA6 | SA2 | S3-232337 |
| S3-233142 | Reply LS on ETSI MEC discussion on possible new requirements for AKMA framework | ETSI MEC | - | S3-232430 |
| S3-233143 | LS on Authorization of NF service consumers for data access via DCCF | CT4 | CT3 | S3-232317 |
| S3-233145 | LS on clarifitcation to the UPU header handling | CT1 | - |  |
| S3-233200 | LS on Security Solution for Selective SCG | 3GPP RAN WG2 | - | - |
| S3-233212 | Draft Reply LS on specification of the 256-bit air algorithms | ETSI SAGE | - | S3-232353 |
| S3-233308 | Ls on further input to address GSMA LS on requirements for intermediaries in the roaming ecosystem (S323244) | SA | CT4,SA1,SA2 |  |
| S3-233321 | Reply LS on Research highlighting potential 5G and 4G Bidding Down Attacks | GSMA CVD | CT1, RAN2 | S3-232345 |
| S3-233322 | LS to SA2 on clarification on removal of the indicator of UUAA result from AMF | SA2 | CT4 |  |
| S3-233323 | Reply LS on security for L2 UE-to-UE relay | RAN2 | - | S3-232325 |
| S3-233351 | LS on NFc registration using OAM | SA5 | - | - |
| S3-233355 | Reply LS on SCTP-AUTH and DTLS | IETF\_TSVWG | RAN3 | S3-232346 |
| S3-233410 | Reply to: LS on Clarification on KMS provisioning | SA6 | - | S3-232340 |
| S3-233438 | Reply LS on security aspects for Ranging/Sidelink Positioning | SA2 | - | S3-232329 |
| S3-233439 | Reply LS on security architecture for 5G multicast–broadcast services | SA4 | SA2,CT4 | S3-232333 |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S3-232702 | New WID for UC3S\_Ph2 | Huawei, HiSilicon, China Mobile, China Telecom, China Unicom, CAICT | WID new |
| S3-233292 | New WID on security enhancements for MBS Phase 2 | Huawei, HiSilicon | WID new |
| S3-233295 | New WID for security of SEAL Data Delivery enabler | Huawei, HiSilicon, China Mobile, Samsung | WID new |
| S3-232489 | Revised WID: 5G ProSe Secondary Authentication | InterDigital, Inc. | WID revised |
| S3-233291 | Revised WID on Automated certificate management in SBA | Nokia, Nokia Shanghai Bell | WID revised |
| S3-233296 | Revised WID on Security Aspects of Ranging Based Services and Sidelink Positioning | Xiaomi Technology | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-233189 | 33.876 | 0.8.0 | draft TR 33.876 |
| S3-233196 | 33.883 | 0.8.0 | draft TR 33.883 |
| S3-233197 | 33.739 | 0.8.0 | Draft TR 33.739 |
| S3-233199 | 33.526 | 1.1.0 | Draft TS 33.526 |
| S3-233202 | 33.527 | 0.3.0 | draft TS 33.527 |
| S3-233209 | 33.528 | 0.2.0 | Draft TS 33.528 |
| S3-233210 | 33.893 | 0.8.0 | Draft TR 33.893 |
| S3-233237 | 33.858 | 1.2.0 | Draft TR 33.858 |
| S3-233264 | 33.738 | 1.2.0 | Draft TR 33.738 |
| S3-233277 | 33.737 | 0.7.0 | Draft TR 33.737 |
| S3-233279 | 33.887 | 0.7.0 | Draft TR 33.887 |
| S3-233301 | 33.890 | 0.8.0 | Draft TR 33.890 |
| S3-233311 | 33.533 | 0.1.0 | Draft TS 33.533 |
| S3-233317 | 33.700-28 | 0.5.0 | Draft TR 33.700-28 |
| S3-233318 | 33.896 | 0.7.0 | Draft TR 33.896 |
| S3-233332 | 33.523 | 1.1.0 | Draft TS 33.523 |
| S3-233363 | 33.877 | 0.6.0 | Draft TR33.877 |
| S3-233365 | 33.898 | 0.7.0 | Draft TR 33.898 |
| S3-233378 | 33.870 | 0.7.0 | Draft TR 33.870 |
| S3-233382 | 33.884 | 1.2.0 | Draft TR 33.884 |
| S3-233384 | 33.848 | 0.15.0 | Draft TR 33.848 |
| S3-233385 | 33.886 | 0.6.0 | Draft TR 33.886 |
| S3-233409 | 33.882 | 0.8.0 | Draft TR 33.882 |
| S3-233446 | 33.809 | 0.21.0 | Draft TR 33.809 |
| S3-233448 | 33.894 | 0.7.0 | Draft TR 33.894 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Mr. | Ali | Irfan | Cisco Systems Belgium | Cisco Systems Belgium |
| Dr. | Awoniyi-Oteri | Olufunmilola | QUALCOMM Europe Inc. - Italy | Qualcomm CDMA Technologies |
| Mr. | Bae | Jaehyeon | Samsung Electronics Co., Ltd | Samsung Electronics Czech |
| Mr. | Baek | Youngkyo | Samsung R&D Institute UK | Samsung Guangzhou Mobile R&D |
| Dr. | Bari | Farooq | AT&T | AT&T GNS Belgium SPRL |
| Dr. | Baskaran | Sheeba Backia Mary | Motorola Mobility Germany GmbH | Motorola Mobility España SA |
| Dr. | Belling | Thomas | Nokia Germany | Nokia Shanghai Bell |
| Dr. | Ben Henda | Noamen | Huawei Technologies Sweden AB | Huawei Technologies Sweden AB |
| Mr. | Bilca | Michael | OTD\_US | OTD\_US |
| Mr. | Bjerrum | Bo Holm | Nokia Corporation | Nokia Denmark |
| Mr. | Bleckert | Peter | Ericsson LM | Ericsson France S.A.S |
| Mr. | Brusilovsky | Alec | InterDigital, Inc. | InterDigital Communications |
| Dr. | Cakulev | Violeta | Verizon UK Ltd | Verizon Spain |
| Dr. | Camtepe | Seyit | CSIRO | CSIRO |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Mr. | Canterbury | Mark | Tencastle Limited | National Technical Assistance |
| Mr. | Casati | Alessio | Nokia UK | Nokia Hungary |
| Dr. | Cetinkaya | Egemen | Verizon UK Ltd | Verizon Denmark |
| Ms. | Chandramouli | Devaki | Nokia Germany | Nokia Corporation |
| Mrs. | chelibane | ouerdia | Orange | Orange |
| Mr. | Chen | Jingran | OPPO | OnePlus |
| Ms. | Chen | Lijuan | ZTE Corporation | ZTE Wistron Telecom AB |
| Ms. | Chen | Yinglin | China Telecom Corporation Ltd. | E-surfing Digital |
| Ms. | Chen | Zhuoyi | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Mr. | Cheng | Hong | Qualcomm Incorporated | Qualcomm Europe Inc. Sweden |
| Ms. | Cho | Min Kyoung | Deloitte Tohmatsu Cyber LLC | KDDI Corporation |
| Mr. | Choi | Hongjin | Samsung R&D Institute UK | Samsung Nanjing |
| Miss | chong | vivian | VIVO TECH GmbH | VIVO TECH GmbH |
| Mr. | Cichonski | Jeff | NIST | NIST |
| Mr. | Cong | Shi | Guangdong OPPO Mobile Telecom. | Hangzhou Mengyuxiang |
| Mr. | Deng | Qiang | CATT | CICT |
| Dr. | Djemai | Tanissia | IRT Saint Exupery | IRT Saint Exupery |
| Mr. | Doerr | Johannes | BMWK | BMWK |
| Dr. | Dong | Hao | ZTE Corporation | ZONSON |
| Mr. | Doubrava | Michael | BSI (DE) | BSI (DE) |
| Ms. | Ebschbach | Linda | umlaut | umlaut |
| Mr. | Eckel | Charles | Cisco Systems Belgium | Cisco Systems Belgium |
| Dr. | Engström | Alexander | NDRE | NDRE |
| Dr. | Escott | Adrian | Qualcomm CDMA Technologies | Qualcomm France |
| Mr. | Evans | Tim P. | VODAFONE Group Plc | Vodafone GmbH |
| Dr. | Featherstone | Walter | Apple France | Apple Portugal |
| Mr. | Ferdi | Samir | InterDigital, Inc. | InterDigital, Inc. |
| Mr. | Fernandes | Clifton | Nokia UK | Nokia Netherlands |
| Mr. | Gamishev | Todor | Orange | Orange Romania |
| Mr. | Gao | Weihan | China Telecom Corporation Ltd. | China Telecom Corporation Ltd. |
| Ms. | Garcia-Flahaut | Juliette | Johns Hopkins University APL | Johns Hopkins University APL |
| Dr. | Garcia-Morchon | Oscar | Philips International B.V. | Philips International B.V. |
| Mr. | Gautam | Deepanshu | Samsung R&D Institute UK | Samsung Electronics Polska |
| Ms. | Gauthier | Sandrine | Airbus | Airbus |
| Mr. | Goldberg | Martin | U.S. National Security Agency | U.S. National Security Agency |
| Mr. | Guo | Boren | OPPO | OPPO Beijing |
| Ms. | Guo | Ivy | Apple Computer Trading Co. Ltd | Apple Computer Trading Co. Ltd |
| Mr. | Guo | Longhua | HUAWEI TECH. GmbH | HuaWei Technologies Co., Ltd |
| Mr. | Hanhisalo | Markus | Ericsson LM | Ericsson LM |
| Mr. | Hedman | Peter | Ericsson LM | Ericsson India Private Limited |
| Miss | Hu | Yushuang | China Mobile Com. Corporation | CMDI |
| Mr. | Inoue | Yoshihiro | NTT | NTT Advanced Technology Corpor |
| Miss | Jerichow | Anja | Nokia Germany | Nokia UK |
| Miss | Jia | Jing | China Telecommunications | China Telecomunication Corp. |
| Mr. | Jiang | Yi | China Mobile Com. Corporation | China Mobile International Ltd |
| Dr. | Jost | Christine | Ericsson LM | Ericsson Hungary Ltd |
| Mr. | Ju | Manchang | ZTE Corporation | ZTE Corporation. |
| Mr. | Kakinada | Achari | Charter Communications, Inc | Charter Communications, Inc |
| Ms. | Kang | Yanchao | vivo Mobile Communication Co., | vivo Mobile Com. (Chongqing) |
| Dr. | Karakoc | Ferhat | Ericsson LM | Ericsson GmbH, Eurolab |
| Mr. | Kaushik | Ashutosh | Samsung R&D Institute UK | Samsung Electronics France SA |
| Miss | ke | xiaowan | vivo Mobile Communication Co., | vivo Japan KK |
| Miss | Kedalagudde | Meghashree D | Intel Deutschland GmbH | Intel Deutschland GmbH |
| Dr. | Keesmaat | Iko | TNO | KPN N.V. |
| Dr. | Khan | Mohsin | Ericsson LM | Oy LM Ericsson AB |
| Mr. | Khare | Saurabh | Nokia Germany | Nokia Solutions & Networks (I) |
| Mr. | Kim | Anbin | LG Electronics France | LG Electronics Polska |
| Ms. | Kim | DongYeon | Samsung R&D Institute UK | Samsung Electronics Nordic AB |
| Mr. | Kim | Hong Suk | LG Electronics France | LG Electronics Deutschland |
| Dr. | Kim | Hongil | Qualcomm Incorporated | Qualcomm Technologies Ireland |
| Dr. | Kim | Hyunsook | LG Electronics Inc. | LG Electronics Inc. |
| Mr. | Kim | Jaewoo | LG Electronics France | LG Electronics France |
| Dr. | Kim | Laeyoung | LG Electronics France | LG Electronics UK |
| Mr. | Kim | Warren | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Kiss | Krisztian | Apple (UK) Limited | Apple Hungary Kft. |
| Mr. | Kolekar | Abhijeet | Intel Corporation (UK) Ltd | Intel Belgium SA/NV |
| Dr. | Koza | Yvette | ZTE FRANCE SASU | ZTE Japan K.K. |
| Mr. | Kumar | Lalith | Samsung R&D Institute India | Samsung Electronics Iberia SA |
| Dr. | Kunz | Andreas | Motorola Mobility Germany GmbH | Motorola Mobile Com Technology |
| Mr. | Kuroiwa | Fumito | NTT DOCOMO INC. | DOCOMO Communications Lab. |
| Dr. | Kweon | Kisuk | Samsung Electronics Co., Ltd | Samsung Research America |
| Mr. | Lair | Yannick | Nokia France | Nokia France |
| Mr. | Leadbeater | Alex | GSM Association | GSM Association |
| Mr. | Lee | Cheolung | Samsung R&D Institute UK | Samsung R&D Institute UK |
| Dr. | Lee | Duckey | Samsung R&D Institute UK | Samsung Electronics Benelux BV |
| Dr. | Lee | Hakju Ryan | Samsung R&D Institute UK | Samsung Electronics Austria |
| Mr. | Lee | Xiaoyang | CISA ECD | CISA ECD |
| Dr. | Lei | Ao | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Japan K.K. |
| Dr. | Lei | Zander (Zhongding) | HuaWei Technologies Co., Ltd | Huawei Tech.(UK) Co.. Ltd |
| Mr. | Li | Aihua | China Mobile Com. Corporation | China Mobile Group Device Co. |
| Ms. | Li | Chenyi | China Unicom | Unicompay |
| Mr. | Li | Fei | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies R&D UK |
| Mr. | Li | He | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. |
| Miss | LI | Jiahui | China Telecommunications | CTSI |
| Miss | LI | QIUTING | ZTE Corporation | ZTE FRANCE SASU |
| Mr. | Li | Zhendong | Nubia Technology Co.,Ltd | ZTE Photonics |
| Dr. | Liang | Haoran | Xiaomi Communications | Beijing Xiaomi Mobile Software |
| Mr. | Libunao | Gerardo | Verizon UK Ltd | Verizon UK Ltd |
| Mr. | Liebhart | Rainer | Nokia Germany | Nokia Germany |
| Mr. | Liu | Chang | China Mobile Com. Corporation | China Mobile (Hangzhou) Inf. |
| Mr. | LIU | Jianning(Carry) | Beijing Xiaomi Software Tech | Xiaomi Communications |
| Miss | Liu | Peilin | ZTE Corporation | CALTTA |
| Mr. | Liu | Yue | China Mobile Com. Corporation | CMDI |
| Mr. | Liu | Yuze | ZTE Corporation | Nubia Technology Co.,Ltd |
| Dr. | Lohmar | Thorsten | Ericsson LM | Nanjing Ericsson Panda Com Ltd |
| Mr. | Lorenz | Ben | BSI (DE) | BSI (DE) |
| Mr. | Loushine | Mike | AT&T | AT&T |
| Mr. | Lu | Fei | Guangdong OPPO Mobile Telecom. | Chengdu OPPO Telecommunication |
| Ms. | Lu | Wei | Xiaomi Technology | Beijing Xiaomi Software Tech |
| Mr. | Lunny | Daniel | BT plc | BT plc |
| Mr. | Ly | Quang | Convida Wireless | Convida Wireless |
| Mr. | Lyu | Huazhang | vivo Mobile Communication Co., | iQoo |
| Mr. | M Vamanan | Sudeep | Apple AB | Apple Poland Sp. z.o.o. |
| Mr. | Ma | Ruitao | China Unicom | CITC |
| Mr. | MAO | Yuxin | Beijing Xiaomi Mobile Software | Xiaomi Technology |
| Mr. | Mariotte | Hubert | Orange | Orange Spain |
| Mr. | Meredith | Thomas | ETSI | ETSI |
| Mr. | Minokuchi | Atsushi | NTT DOCOMO INC. | DOCOMO Beijing Labs |
| Mr. | Mouquet | Antoine | Orange | Orange UK |
| Mr. | Murugesan | Karthik | Motorola Solutions UK Ltd. | Motorola Solutions UK Ltd. |
| Dr. | Mustapha | Mona | Apple France | Apple Europe Limited |
| Mr. | Nair | Suresh | Nokia Germany | Nokia |
| Mr. | NAKAMURA | Kazuo | NICT | NICT |
| Dr. | Nakano | Yuto | KDDI Corporation | KDDI Corporation |
| Mr. | Nayak | Ashok Kumar | Samsung R&D Institute India | Samsung Electronics GmbH |
| Dr. | Ni | Hui | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI Technologies Japan K.K. |
| 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. | Oettl | Martin | Nokia Germany | Nokia Austria |
| Mr. | Olsson | Magnus | Ericsson LM | L.M. Ericsson Limited |
| Mr. | Orkopoulos | Stawros | Nokia Germany | Nokia Italy |
| Mr. | Palanigounder | Anand | Qualcomm Technologies Int | Qualcomm India Pvt Ltd |
| Dr. | Park | Junhyun | Samsung R&D Institute UK | Harman GmbH |
| Mr. | Parsel | Mike | T-Mobile USA | T-Mobile USA Inc. |
| Dr. | Pashalidis | Andreas | BSI (DE) | BSI (DE) |
| Mr. | Pattan | Basavaraj (Basu) | Samsung R&D Institute UK | Samsung Shenzhen |
| Mr. | Pätzold | Thomas | Deutsche Telekom AG | Telekom Deutschland GmbH |
| Mrs. | Pauliac | Mireille | THALES | THALES |
| Mr. | Peinado | German | Nokia Germany | Nokia Poland |
| Mr. | Pica | Francesco | Qualcomm Incorporated | Qualcomm Tech. Netherlands B.V |
| Miss | Ping | Jing | Nokia Germany | Nokia Korea |
| Mr. | Qi | Minpeng | China Mobile Research Inst. | China Mobile Com. Corporation |
| Mr. | Rajadurai | Rajavelsamy | Samsung R&D Institute UK | Samsung Electronics Co., Ltd |
| Ms. | Rajendran | Rohini | Samsung R&D Institute India | Samsung Electronics Romania |
| Mr. | Ramamoorthy | Arunprasath | Samsung R&D Institute India | BEIJING SAMSUNG TELECOM R&D |
| Miss | Ramazanirend | Elmira | VODAFONE Group Plc | Vodafone Ireland Plc |
| Mr. | Rathod | Niraj | Ericsson LM | Ericsson-LG Co., LTD |
| Dr. | Rommer | Stefan | Ericsson LM | Ericsson Japan K.K. |
| Mrs. | Rong | Wu | HUAWEI TECHNOLOGIES Co. Ltd. | HiSilicon Technologies Co. Ltd |
| Mr. | Ruan | Bangqiu | ZTE Corporation | Jetflow |
| Mr. | Sällberg | Krister | Ericsson LM | Ericsson Telecomunicazioni SpA |
| Mr. | Salmon | Michael | Verizon UK Ltd | Verizon Switzerland AG |
| Ing. | Sánchez | Antonio | Keysight Technologies UK Ltd | Keysight Technologies UK Ltd |
| Mr. | Schäfer | Pascal | Accenture | umlaut |
| Mr. | Schevciw | Andre | Qualcomm Technologies Int | Qualcomm Technologies Int |
| Mr. | Schumacher | Gregory | Peraton Labs | Peraton Labs |
| Mr. | Shah | Sapan | Samsung R&D Institute India | Samsung R&D Institute India |
| Mr. | Shan | Changhong | Intel Corporation (UK) Ltd | Intel Corporation (UK) Ltd |
| Mr. | Shao | Weixiang | ZTE Corporation | ZTE Corporation |
| Ms. | Shen | Jun | China Telecommunications | China Telecommunications |
| Ms. | Shen | Yang | Beijing Xiaomi Mobile Software | Xiaomi EV Technology |
| Ms. | Shi | Xiaonan | China Mobile Com. Corporation | China Mobile (Suzhou) Software |
| Mr. | shimada | kazuki | NTT | NTT |
| Mr. | Shu | Min | CATT | Fiberhome Technologies Group |
| Ms. | So | Tricci | OPPO | Guangdong OPPO Mobile Telecom. |
| Dr. | Speicher | Sebastian | Qualcomm CDMA Technologies | Qualcomm Korea |
| Mr. | Sriram | Sundar | CableLabs | CableLabs |
| Mr. | Stange | Wolf-Joergen | umlaut | umlaut |
| Mr. | Stefano | Faccin | QUALCOMM Europe Inc. - Italy | QUALCOMM JAPAN LLC. |
| Mr. | Stojanovski | Saso | Intel Deutschland GmbH | Intel Corporation Italia SpA |
| Miss | Sultana | Shabnam | Ericsson LM | Ericsson Inc. |
| Dr. | Sun | Tao | China Mobile M2M Company Ltd. | China Mobile M2M Company Ltd. |
| Ms. | Sun | Xiaowen | vivo Mobile Communication Co., | Nanjing Weibo |
| Mr. | Suzuki | Yuji | NTT DOCOMO INC. | NTT DOCOMO INC. |
| Dr. | Tan | Peng | OTECH | OTECH |
| Miss | Tao | Yuan | CICT | Datang Mobile Com. Equipment |
| Dr. | Targali | Yousif | Verizon UK Ltd | Verizon Sweden |
| Mr. | Thiebaut | Laurent | Nokia France | Nokia Belgium |
| Dr. | Tonesi | Dario Serafino | Qualcomm CDMA Technologies | Qualcomm Incorporated |
| Dr. | Tsiatsis | Vlasios | Ericsson LM | Ericsson España S.A. |
| Mr. | Vujcic | Dragan | IDEMIA | IDEMIA |
| Dr. | Wan | Tao | CableLabs | CableLabs |
| Dr. | Wang | Chenyu | BUPT | BUPT |
| Ms. | Wang | Dan | China Mobile Com. Corporation | China Mobile E-Commerce Co. |
| Dr. | Wang | Shoufeng | AsiaInfo Technologies Inc | AsiaInfo |
| Mr. | Wang | Wen | vivo Mobile Communication Co., | GUANGDONG GENIUS TECHNOLOGY CO |
| Dr. | Wang | Yaxin | OPPO | Shenzhen Heytap |
| Mr. | Wang | Yuan | HuaWei Technologies Co., Ltd | Huawei Technologies (Korea) |
| Dr. | Wang | Zhaoning | China Unicom | CUG |
| Dr. | Wang | Zhibi | InterDigital Communications | InterDigital Communications |
| Ms. | Warren | Denisha | U.S. National Security Agency | U.S. National Security Agency |
| Ms. | WEI | QUN | China Unicom | BTPDI |
| Dr. | Weiss | Mario | BMWK | BMWK |
| Ms. | Wifvesson | Monica | Ericsson LM | Ericsson Limited |
| Mr. | Wong | Marcus | OPPO | OPPO |
| Ms. | WU | Jinhua | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Mr. | Wu | Xiaobo | vivo Communication Technology | vivo Mobile Communication Co., |
| Mr. | Xie | Zhenhua | vivo Mobile Communication Co., | vivo Mobile Communication (S) |
| Mr. | Xie | Zhonghuai | China Unicom | CU Digital Technology |
| Dr. | Xin | Tingyu | Samsung R&D Institute UK | SAMSUNG R&D INSTITUTE JAPAN |
| Mr. | Xing | TianQi | China Unicom | China Unicom |
| Mr. | Xiong | Chunshan | CICT | Datang Linktester Technology |
| Miss | Xiong | Lihui | OPPO | Hangzhou Douku |
| Miss | Xu | Hui | CATT | CATT |
| Mrs. | Xu | Ling | ZTE Corporation | ZTE Korea Limited |
| Mr. | Xu | Yang | Guangdong OPPO Mobile Telecom. | OPPO (chongqing) Intelligence |
| Ms. | Xu | Yishan | Huawei Technologies R&D UK | Huawei Telecommunication India |
| Dr. | Yang | Ning | Guangdong OPPO Mobile Telecom. | Chongqing Angying |
| Dr. | Yao | Ge | China Unicom | VSENS |
| Mr. | Yao | Yizhi | Intel Corporation (UK) Ltd | Intel Romania |
| Ms. | Yi | Haofan | BJTU | BJTU |
| Mr. | Yip | Eric | Samsung Electronics Co., Ltd | Samsung Suzhou |
| Mr. | You | Shilin | ZTE Corporation | Sanechips |
| Mr. | Youn | Myungjune | LG Electronics France | LG Electronics Finland |
| Dr. | Zhang | Amy | vivo Japan KK | vivo Mobile Communication (H) |
| Dr. | Zhang | Bo | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies France |
| Miss | Zhang | Juan | Qualcomm Korea | QUALCOMM Europe Inc. - Italy |
| Mr. | ZHANG | Kefeng | Qualcomm Incorporated | QUALCOMM Europe Inc. - Spain |
| Miss | Zhang | Yuying | China Telecom Corporation Ltd. | Esurfing IoT |
| Miss | ZHAO | HUAN | China Unicom | Unicom Broadband Online |
| Ms. | Zheng | Shaowen | China Mobile Com. Corporation | China Mobile (Hangzhou) Inf. |
| Mr. | Zhou | Runze | Huawei Technologies France | Huawei Device Co., Ltd |
| Mr. | Zhou | Wei | CATT | CATT |
| Mr. | Zhu | Chunhui | Beijing Xiaomi Mobile Software | Beijing Xiaomi Electronics |
| Mr. | Zhu | Jinguo | ZTE Corporation. | ZXNE |
| Mrs. | Zhu | Wenruo | HuaWei Technologies Co., Ltd | HUAWEI TECH. GmbH |
| Mr. | ZHU | ZHENGYUAN | Pengcheng laboratory | Pengcheng laboratory |
| Dr. | Zia | Waqar | Apple Marketing Iberia | Apple Switzerland AG |
| Mr. | Zisimopoulos | Haris | Qualcomm Technologies Int | Qualcomm France |
| Dr. | Zugenmaier | Alf | NTT DOCOMO INC. | NTT DOCOMO INC. |
| Mr. | Zwingmann | Holger | umlaut | umlaut |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA3#112 | 2023-08-14 | 2023-08-18 | Goteborg | SE | S3-112 |
| SA3#91-LI | 2023-10-24 | 2023-10-27 | Sydney | AU | S3-91 |
| SA3#113 | 2023-11-06 | 2023-11-10 | Chicago | US | S3-113 |
| SA3#114 | 2024-01-22 | 2024-01-26 | TBD |  | S3-114 |
| SA3#92-LI | 2024-01-23 | 2024-01-26 | Sophia Antipolis | FR | S3-92-LI |
| 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-(option 1) | 2024-05-13 | 2024-05-17 | Korea | KR | S3-116 |
| SA3#116-(option 2) | 2024-05-20 | 2024-05-24 | TBD |  | S3-116 |
| 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#119 | 2024-11-11 | 2024-11-15 | US TBC | US | S3-119 |