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

**Meeting Report  
for  
TSG SA WG3  
meeting: 105**

**Electronic meeting, Online, 08/11/2021 to 19/11/2021**

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## 1 Agenda and Meeting Objectives

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

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

to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.

to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms.

The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chairman and Vice-Chairmen and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP.

Delegates were reminded that timely submission of work items in advance of TSG/WG meetings was important to allow for full and fair consideration of such matters.

NOTE: Minutes of the email discussions are summarised in the tdoc S3-213805 (meeting notes by the SA3 leadership)

**S3-213800 Agenda**

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

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

**S3-213803 Process for SA3#105e meeting**

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

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

**S3-213883 SA3 Procedures and deadlines**

*Type: agenda For: Information  
 Source: SA3 Chair*

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

## 2 Meeting Reports

**S3-213801 Report from SA3#104e**

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

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

**S3-213802 Report from SA3#104e-Adhoc**

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

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

**S3-213804 Report from last SA**

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

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

**S3-213805 Meeting notes from SA3 leadership**

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

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

## 3 Reports and Liaisons from other Groups

**S3-213846 TCG progress - report from TCG rapporteur**

*Type: other For: Information  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution provides a brief incremental summary of the progress in TCG Working Groups as of November 2021.

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

**S3-213806 LS to 3GPP SA3 working group on 5GS Roaming Hubbing**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: 5GJA*

**Decision:** The document was **replied to in S3-214456**.

**S3-214293 DP of LS from GSMA about roaming hub support**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-213809 LS on new parameters for SOR**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-214118*

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

**S3-214326 CR to 33.501 to protect additional SoR information (CPSOR-CMCI)**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1249 Cat: C (Rel-17)  
  
 Source: NTT DOCOMO INC.*

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

**S3-214327 draft-Reply LS on new parameters for SOR**

*Type: LS out For: Approval  
 to CT1, cc CT4  
 Source: NTT DOCOMO INC.*

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

**S3-213810 Reply LS on NAS-based busy indication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-214917*

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

**S3-213824 Reply LS on NAS-based busy indication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2108855*

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

**S3-213811 LS on user plane integrity protection for UE not supporting NR as primary RAT and supporting E-UTRA**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-214952*

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

**S3-213876 Reply LS on user plane integrity protection for UE not supporting NR as primary RAT and supporting E-UTRA**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2107794*

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

**S3-213813 Reply LS on Header Enrichment for HTTPS in PFCP**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-214531*

**Decision:** The document was **replied to in S3-214505**.

**S3-213931 Reply LS on Header Enrichment for HTTPS in PFCP**

*Type: LS out For: Approval  
 to CT4  
 Source: ZTE Corporation*

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

**S3-214075 Reply LS on Header Enrichment for HTTPS in PFCP**

*Type: LS out For: Approval  
 to CT4  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214505**.

**S3-213814 LS on Using N32 for interconnect scenarios**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-214533*

**Decision:** The document was **replied to in S3-214427**.

**S3-214333 Reply LS from 5GJA to 3GPP CT4, SA2 and SA3 on Using N32 for Interconnect Scenarios**

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

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

**S3-213817 Support of UAVs authentication/authorization in 3GPP systems and interfacing with USS/UTM**

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

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

**S3-213818 LS on broadcast of NTN GW or gNB position**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R1-2106332*

**Decision:** The document was **replied to in S3-214336**.

**S3-213819 Reply LS on broadcast of NTN GW or gNB position**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-213211*

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

**S3-214082 Reply to LS on broadcast of NTN GW or gNB position**

*Type: LS out For: Approval  
 to RAN1, cc SA1, SA3-LI  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214260 Reply to LS on broadcast of NTN GW or gNB position**

*Type: LS out For: Approval  
 to RAN1, SA1, cc SA3-LI  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214336**.

**S3-214166 Reply LS (S3-213818) on broadcast of NTN GW or gNB position**

*Type: LS out For: Approval  
 to RAN1, SA1, cc SA3-LI  
 Source: Xiaomi Technology*

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

**S3-213820 New LS on UE location aspects in NTN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2106543*

**Decision:** The document was **replied to in S3-214360**.

**S3-213821 Reply LS on UE location aspects in NTN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2109216*

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

**S3-213822 Reply LS on UE location aspects in NTN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2109217*

**Decision:** The document was **replied to in S3-214394**.

**S3-213968 [Draft] Reply LS on UE location aspects in NTN**

*Type: LS out For: (not specified)  
 to RAN2  
 Source: Intel Sweden AB*

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

**S3-213985 Reply LS on UE location aspects in NTN (R2-2106543)**

*Type: LS out For: (not specified)  
 to RAN2  
 Source: Apple*

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

**S3-214103 Reply LS on UE location aspects in NTN**

*Type: LS out For: Approval  
 to RAN2, cc RAN1, RAN3, SA2, SA3-LI, CT1  
 Source: CATT*

**Decision:** The document was **revised to S3-214360**.

**S3-214154 Reply LS on UE location aspects in NTN**

*Type: LS out For: Approval  
 to RAN2, cc RAN3, SA2, SA3-LI, CT1  
 Source: Qualcomm Incorporated*

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

**S3-214167 Reply LS (S3-213820) on UE location aspects in NTN**

*Type: LS out For: Approval  
 to RAN2, cc RAN3, SA2, SA3-LI, CT1, RAN1  
 Source: Xiaomi Technology*

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

**S3-214168 Reply LS (S3-213822) on UE location aspects in NTN**

*Type: LS out For: Approval  
 to RAN2, cc CT1, SA2, SA3-LI, RAN3  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-214394**.

**S3-213823 LS on NTN specific user consent**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2109199*

**Decision:** The document was **replied to in S3-214349**.

**S3-214155 Reply LS on NTN specific User Consent**

*Type: LS out For: Approval  
 to RAN2, cc RAN3, SA2  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-214349**.

**S3-214169 Reply LS (S3-213823) on NTN specific user consent**

*Type: LS out For: Approval  
 to RAN2, cc RAN3  
 Source: Xiaomi Technology*

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

**S3-213986 Reply LS on NTN specific user consent (R2-2109199)**

*Type: LS out For: (not specified)  
 to RAN2  
 Source: Apple*

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

**S3-213827 LS on UP security policy updated by intra-cell handover**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-214464*

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

**S3-213828 LS to SA3 on support of Pre-shared key derivation for IAB-donor-CU-UP**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-214465*

**Decision:** The document was **replied to in S3-214008**.

**S3-214008 Reply LS on support of Pre-shared key derivation for IAB-donor-CU-UP**

*Type: LS out For: Approval  
 to RAN3  
 Source: Huawei, HiSilicon*

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

**S3-214228 [Rel-16]Clarification on KIAB generation for CP-UP separation**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1240 Cat: F (Rel-16)  
  
 Source: Samsung, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, Intel*

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

**S3-214229 [Rel-17]Clarification on KIAB generation for CP-UP separation**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1241 Cat: A (Rel-17)  
  
 Source: Samsung, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, Intel*

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

**S3-213830 LS on 5G capabilities exposure for factories of the future**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2106683*

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

**S3-213831 Reply LS to 5G-ACIA on 5G capabilities exposure for factories of the future**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-211134*

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

**S3-213837 LS Reply on QoE report handling at QoE pause**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-211290*

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

**S3-213838 LS on progress of study items for security on management aspect**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-214467*

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

**S3-213839 Reply LS on QoE report handling at QoE pause**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S5-214519*

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

**S3-214099 Evaluation of the potential security issue in QoE report handling at QoE pause**

*Type: discussion For: Endorsement  
 Source: Lenovo, Motorola Mobility*

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

**S3-214101 [DRAFT] Reply LS on QoE report handling at QoE pause**

*Type: LS out For: Approval  
 to RAN2, cc SA4, SA5  
 Source: Lenovo, Motorola Mobility*

**Decision:** The document was **revised to S3-214458**.

**S3-213841 Reply LS on RAT type for network monitoring**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-212146*

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

**S3-213844 LS on new liaison officer from ITU-T SG17**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG17*

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

**S3-213845 Reply LS on Inclusive language review**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-211140*

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

**S3-213850 LS-Reply on Home Network triggered re-authentication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-215437*

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

**S3-214231 Discussion paper on need for Re-authentication**

*Type: discussion For: Endorsement  
 Source: Samsung, NEC*

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

**S3-214232 CR to 33.501: Network initiated Primary Authentication**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1243 Cat: B (Rel-17)  
  
 Source: Samsung, NEC*

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

**S3-214233 CR to 33.535: Refresh of KAKMA and KAF**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0112 Cat: B (Rel-17)  
  
 Source: Samsung, NEC*

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

**S3-213874 LS on MINT functionality for Disaster Roaming**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2108172*

**Decision:** The document was **replied to in S3-214342**.

**S3-213992 Discussion on SA2 LS on MINT**

*Type: discussion For: Discussion  
 Source: LG Electronics Inc.*

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

**S3-213975 Reply LS on LS on MINT functionality for Disaster Roaming**

*Type: LS out For: Approval  
 to SA2, cc SA5, CT1, CT4, CT6, RAN2, TSG SA, TSG CT, TSG RAN  
 Source: LG Electronics*

**Decision:** The document was **revised to S3-214342**.

**S3-213877 LS to 3GPP SA3 working group on NRF mutual authentication in roaming scenario**

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

**Decision:** The document was **replied to in S3-214425**.

**S3-213885 LS on question and feedback about the EVEX Work Item**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C3-215316*

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

**S3-213840 LS on new SID on Application Enablement for Data Integrity Verification Service in IOT**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-211496*

**Decision:** The document was **replied to in S3-214337**.

**S3-213887 LS on reply to SA6 about new SID on Application Enablement for Data Integrity Verification Service in IOT**

*Type: LS out For: Approval  
 to 3GPP TSG SA WG6, 3GPP TSG SA WG1, cc 3GPP TSG SA  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

SA3 kindly requests information and clarification from SA6 and SA1 before detailed response on planned data integrity verification can be provided.

**Decision:** The document was **revised to S3-214337**.

**S3-213965 Discussion on Data Integrity Service in IoT**

*Type: discussion For: Information  
 Source: China Unicom*

**Abstract:**

Discussion and clarification on the issues of Data Integrity Service in IoT

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

**S3-213966 Reply LS to SA6 on new SID on Application Enablement for Data Integrity Verification Service in IoT**

*Type: LS out For: Approval  
 to SA6, cc SA1  
 Source: China Unicom*

**Abstract:**

SA3 would like to offer the comments and/or clarifications regarding the new SID. Based on the justification and objectives in the SID, SA3 believes the security aspects on SEAL and CAPIF for data integrity verification in IoT need further study, this sho

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

**S3-214097 Discussions on ZUC-256**

*Type: discussion For: Endorsement  
 Source: CATT*

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

**S3-214100 LS on ZUC-256**

*Type: LS out For: Approval  
 to ETSI SAGE  
 Source: CATT*

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

**S3-213843 LS on information about draft Recommendation ITU-T Y.frd: "Framework and Requirements of Network-oriented Data Integrity Verification Service based on Blockchain in Future Network”**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: ITU-T SG13*

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

**S3-214336 Reply to LS on broadcast of NTN GW or gNB position**

*Type: LS out For: Approval  
 to RAN1, SA1, cc SA3-LI  
 Source: Ericsson*

(Replaces S3-214260)

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

**S3-214337 LS on reply to SA6 about new SID on Application Enablement for Data Integrity Verification Service in IOT**

*Type: LS out For: Approval  
 to 3GPP TSG SA WG6, 3GPP TSG SA WG1, cc 3GPP TSG SA  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-213887)

**Abstract:**

SA3 kindly requests information and clarification from SA6 and SA1 before detailed response on planned data integrity verification can be provided.

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

**S3-214342 Reply LS on LS on MINT functionality for Disaster Roaming**

*Type: LS out For: Approval  
 to SA2, cc SA5, CT1, CT4, CT6, RAN2, TSG SA, TSG CT, TSG RAN  
 Source: LG Electronics*

(Replaces S3-213975)

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

**S3-214349 Reply LS on NTN specific User Consent**

*Type: LS out For: Approval  
 to RAN2, cc RAN3, SA2  
 Source: Qualcomm Incorporated*

(Replaces S3-214155)

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

**S3-214360 Reply LS on UE location aspects in NTN**

*Type: LS out For: Approval  
 to RAN2, cc RAN1, RAN3, SA2, SA3-LI, CT1  
 Source: CATT*

(Replaces S3-214103)

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

**S3-214394 Reply LS (S3-213822) on UE location aspects in NTN**

*Type: LS out For: Approval  
 to RAN2, cc CT1, SA2, SA3-LI, RAN3  
 Source: Xiaomi Technology*

(Replaces S3-214168)

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

**S3-214416 Follow up LS on MINT functionality for Disaster Roaming**

*Type: LS out For: Approval  
 to SA WG2, cc SA5, CT1, CT4, CT6, RAN2, TSG SA, TSG CT, TSG RAN  
 Source: LG Electronics Inc.*

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

**S3-214425 Reply LS to GSMA on NRF mutual authentication in roaming scenario**

*Type: LS out For: Approval  
 to GSMA NRG 5GMRR  
 Source: Nokia*

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

**S3-214427 Reply-LS on Using N32 for interconnect scenarios**

*Type: LS out For: (not specified)  
 to CT4  
 Source: Nokia*

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

**S3-214456 Reply LS on 5GS roaming hubbing**

*Type: LS out For: Approval  
 to GSMA 5GJA, GSMA DESS, cc CT4  
 Source: NTT DOCOMO INC.*

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

**S3-214458 LS on QoE report handling at QoE pause**

*Type: LS out For: Approval  
 to RAN2, cc SA4, SA5  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-214101)

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

**S3-214505 Reply LS on Header Enrichment for HTTPS in PFCP**

*Type: LS out For: Approval  
 to CT4  
 Source: Huawei, Hisilicon*

(Replaces S3-214075)

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

## 4 Work areas

### 4.1 Integration of GBA into 5GC (Rel-17)

**S3-214250 Living document for GBA\_5G: draftCR to TS 33.220: SBA support for Zh and Zn interfaces**

*Type: draftCR For: Approval  
 33.220 v17.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214449**.

**S3-214251 Living document for GBA\_5G: draftCR to TS 33.223: SBA support for Zpn**

*Type: draftCR For: Approval  
 33.223 v17.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214450**.

**S3-213867 Reply LS to LS on SBA for GBA**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2107793*

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

**S3-214252 pCR to living document of TS 33.220: Update of the interface names and removal of Editor's Notes**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-214253 pCR to living document of TS 33.223: Update of the interface names and removal of Editor's Notes**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-214254 pCR to living document of TS 33.220: Editorial changes**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-214255 pCR to living document of TS 33.223: Editorial changes**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-213932 TS 33.220 Resolution of editor's note on 5G GBA roaming**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-213933 TS 33.223 Resolution of editor's note on 5G GBA roaming**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-214257 Discussion about GBA roaming in 5G**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-214258 pCR to living document of TS 33.220: Roaming**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-214259 pCR to living document of TS 33.223: Roaming**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-214053 Authorizating the use of GBA service**

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

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

**S3-214256 pCR to living document of TS 33.220: Update of the new UDM service to a service operation**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-214449 Living document for GBA\_5G: draftCR to TS 33.220: SBA support for Zh and Zn interfaces**

*Type: draftCR For: Approval  
 33.220 v17.1.0  
 Source: Ericsson*

(Replaces S3-214250)

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

**S3-214450 Living document for GBA\_5G: draftCR to TS 33.223: SBA support for Zpn**

*Type: draftCR For: Approval  
 33.223 v17.0.0  
 Source: Ericsson*

(Replaces S3-214251)

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

**S3-214519 SBA support for the Zh and Zn interfaces**

*Type: CR For: Agreement  
 33.220 v17.1.0 CR-0214 Cat: B (Rel-17)  
  
 Source: Ericsson, Huawei, HiSilicon, Thales*

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

**S3-214520 SBA support for the Zpn interface**

*Type: CR For: Agreement  
 33.223 v17.0.0 CR-0031 Cat: B (Rel-17)  
  
 Source: Ericsson, Huawei, HiSilicon, Thales*

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

### 4.2 Security Assurance Specification for IMS (Rel-17)

**S3-214072 Add the threat references in the TS 33.226**

*Type: CR For: Approval  
 33.226 v17.0.0 CR-0001 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

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

### 4.3 Security Assurance Specification Enhancements for 5G (Rel-17)

**S3-213842 LS re Penetration Testing of SCAS**

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

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

**S3-213875 33.512 – Alignment with TS 33.501 Rel-17**

*Type: CR For: Approval  
 33.512 v17.1.0 CR-0018 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Updated references in document to TS 33.501 Rel-17

**Decision:** The document was **revised to S3-214417**.

**S3-213878 AMF – NAS NULL integrity protection clarifications**

*Type: CR For: Approval  
 33.512 v17.1.0 CR-0019 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

The preconditions and execution steps for the test case do not fully cover the Requirement Reference.

1. The preconditions do not specify the status of the AMF

2. The execution steps do not cover the non-emergency registration of the UE

This document fi

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

**S3-214026 Correction of testcases in TS 33.511**

*Type: CR For: Approval  
 33.511 v17.0.0 CR-0026 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214481**.

**S3-214135 Discussion on adding SCAS for the various split gNB cases**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated, Deutsche Telekom AG, AT&T*

(Replaces S3-212838)

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

**S3-214136 Adding SCAS for the various split gNB cases**

*Type: CR For: Agreement  
 33.511 v17.0.0 CR-0025 rev 1 Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated, Deutsche Telekom AG, AT&T*

(Replaces S3-212839)

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

**S3-214210 SCAS SECOP update to Annex SCP in 33.926**

*Type: other For: Approval  
 33.926 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214486**.

**S3-214417 33.512 – Alignment with TS 33.501 Rel-17**

*Type: CR For: Approval  
 33.512 v17.1.0 CR-0018 rev 1 Cat: F (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

(Replaces S3-213875)

**Abstract:**

Updated references in document to TS 33.501 Rel-17

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

**S3-214469 Minimum set of functions for SCP**

*Type: CR For: (not specified)  
 33.926 v17.2.0 CR-0050 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214481 Update testcases to clause 4.2.2.1.18 and 4.2.2.1.19**

*Type: CR For: Approval  
 33.511 v17.0.0 CR-0026 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-214026)

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

**S3-214486 SCAS SECOP update to Annex SCP in 33.926**

*Type: other For: Approval  
 33.926 v..  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214210)

**Abstract:**

-r2 approved

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

### 4.4 Security Assurance Specification for Service Communication Proxy (SECOP) (Rel-17)

**S3-214078 Living CR on SCP to 33.926**

*Type: draftCR For: (not specified)  
 33.926 v17.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-212293)

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

**S3-214200 Cover sheet - SCAS SECOP - Presentation and Approval of TR 33.522**

*Type: TS or TR cover For: Approval  
 33.522 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214204 01 SCAS SECOP editorials to 33522-030**

*Type: pCR For: Approval  
 33.522 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214526**.

**S3-214205 02 SCAS SECOP Technical baseline**

*Type: pCR For: Approval  
 33.522 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214527**.

**S3-214206 SCAS SECOP Operating Systems**

*Type: pCR For: Approval  
 33.522 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214207 SCAS SECOP Web Servers**

*Type: pCR For: Approval  
 33.522 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214208 SCAS SECOP Network Devices**

*Type: other For: Approval  
 33.522 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214209 SCAS SECOP Vulnerability testing**

*Type: other For: Approval  
 33.522 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214467 New Annex with Assets and Threats specific to SCAS SCP**

*Type: CR For: (not specified)  
 33.926 v17.2.0 CR-0049 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214468 33.522 - 5G Security Assurance Specification (SCAS); Service Communication Proxy (SECOP)**

*Type: draft TS For: (not specified)  
 33.522 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214526 SCAS SECOP editorials to 33522-030**

*Type: pCR For: Approval  
 33.522 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214204)

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

**S3-214527 SCAS SECOP Technical baseline**

*Type: pCR For: Approval  
 33.522 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214205)

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

**S3-214528 SCAS SECOP Operating Systems**

*Type: other For: Approval  
 33.522 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214529 SCAS SECOP Web Servers**

*Type: pCR For: Approval  
 33.522 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

### 4.5 Security Assurance Specification for 5G NWDAF (Rel-17)

### 4.6 Security Assurance Specification for Non-3GPP InterWorking Function (N3IWF) (Rel- 17)

**S3-214111 Presentation of Specification to TSG: TS 33.520, Version <0.3.0> for approval**

*Type: pCR For: (not specified)  
 33.520 v0.2.0  
 Source: China Unicom, Huawei, Hisilicon*

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

**S3-214114 Editorial change on TS 33.520**

*Type: pCR For: (not specified)  
 33.520 v0.2.0  
 Source: China Unicom, Huawei, Hisilicon*

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

**S3-214537 Draft TS 33.520**

*Type: draft TS For: Approval  
 33.520 v0.3.0  
 Source: China Unicom*

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

### 4.7 Security Assurance Specification for Inter PLMN UP Security (Rel-17)

### 4.8 eSCAS\_5G for Network Slice-Specific Authentication and Authorization Function (NSSAAF) (Rel-17)

### 4.9 Mission critical security enhancements phase 2 (Rel-17)

**S3-213904 [33.180] R17 Preconfigured group clarification**

*Type: CR For: Agreement  
 33.180 v17.4.0 CR-0177 Cat: B (Rel-17)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Draft CR S3-213592 converted to CR

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

**S3-214269 [33.180] MCXSec over 5GS**

*Type: CR For: Agreement  
 33.180 v17.4.0 CR-0184 Cat: B (Rel-17)  
  
 Source: Ericsson, Motorola Solutions*

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

### 4.10 Enhancements to User Plane Integrity Protection Support in 5GS (Rel-17)

### 4.11 Adapting BEST for use in 5G networks (Rel-17)

**S3-213881 Living document for BEST\_5G: draftCR to TS 33.163**

*Type: draftCR For: Approval  
 33.163 v16.2.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-214461**.

**S3-213882 pCR to Living document for BEST\_5G: resolution of Editor’s notes**

*Type: other For: Approval  
 33.163 v..  
 Source: KPN N.V., Vodafone*

**Decision:** The document was **revised to S3-214419**.

**S3-214060 EN removal about the confidential protection in BEST**

*Type: other For: Approval  
 33.163 v..  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214512**.

**S3-214061 EN removal about the authentication method selection in BEST**

*Type: other For: Approval  
 33.163 v..  
 Source: Huawei, Hisilicon*

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

**S3-214062 EN removal about the UE identification in BEST**

*Type: other For: Approval  
 33.163 v..  
 Source: Huawei, Hisilicon*

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

**S3-214419 pCR to Living document for BEST\_5G: resolution of Editor’s notes**

*Type: other For: Approval  
 33.163 v..  
 Source: KPN N.V., Vodafone*

(Replaces S3-213882)

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

**S3-214461 Living document for BEST\_5G: draftCR to TS 33.163**

*Type: draftCR For: Approval  
 33.163 v16.2.0  
 Source: KPN N.V.*

(Replaces S3-213881)

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

**S3-214500 EN removal about the UE identification in BEST**

*Type: other For: Approval  
 33.163 v..  
 Source: Huawei, Hisilicon*

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

**S3-214512 EN removal about the confidential protection in BEST**

*Type: other For: Approval  
 33.163 v..  
 Source: Huawei, Hisilicon*

(Replaces S3-214060)

**Decision:** The document was **revised to S3-214536**.

**S3-214536 EN removal about the confidential protection in BEST**

*Type: other For: Approval  
 33.163 v..  
 Source: Huawei, Hisilicon*

(Replaces S3-214512)

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

**S3-214524 Update of BEST for 5G including GBA, 5G GBA, AKMA**

*Type: CR For: Approval  
 33.163 v16.2.0 CR-0014 Cat: B (Rel-17)  
  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-214542**.

**S3-214542 Update of BEST for 5G including GBA, 5G GBA, AKMA**

*Type: CR For: Approval  
 33.163 v16.2.0 CR-0014 rev 1 Cat: B (Rel-17)  
  
 Source: KPN N.V.*

(Replaces S3-214524)

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

### 4.12 Authentication and key management for applications based on 3GPP credential in 5G (Rel-17)

**S3-213898 Clarification on Kaf lifetime in Clause 5.2**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0101 Cat: F (Rel-17)  
  
 Source: Futurewei Technologies*

**Abstract:**

Clarification on Kaf lifetime in Clause 5.2

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

**S3-213899 Kaf refresh when lifetime expires**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0102 Cat: F (Rel-17)  
  
 Source: Futurewei Technologies*

**Abstract:**

Kaf refresh when lifetime expires

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

**S3-213937 Discussion on refresh of KAF and no Kakma in AAnF**

*Type: discussion For: Endorsement  
 33.535 v..  
 Source: ZTE Corporation*

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

**S3-213938 Kaf expiration**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0105 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-213939 Kaf is invalid in AF**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0106 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-214234 CR to 33.535: Clarification on AKMA Application Key retrieval**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0113 Cat: B (Rel-17)  
  
 Source: Samsung*

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

**S3-213936 Clean up for clause 6.6.1**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0104 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-214490**.

**S3-213940 No AKMA security context in AAnF**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0107 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-213941 Sending UE ID to the AKMA AF**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0108 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-213942 UE stores AKMA subscription data**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0109 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-214039 Correction to Deriving AKMA Application Key for a specific AF**

*Type: CR For: Approval  
 33.535 v17.3.0 CR-0110 Cat: F (Rel-17)  
  
 Source: Huawei,HiSilicon*

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

**S3-214091 AKMA roaming**

*Type: CR For: Approval  
 33.535 v17.3.0 CR-0111 Cat: B (Rel-17)  
  
 Source: Lenovo, Motorola Mobility*

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

**S3-214096 LI for AKMA Roaming**

*Type: discussion For: Endorsement  
 33.535 v..  
 Source: Lenovo, Motorola Mobility*

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

**S3-214235 Discussion on AKMA Roaming scenario**

*Type: discussion For: Endorsement  
 Source: Samsung*

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

**S3-214236 CR to 33.535: AKMA service support for roaming UE**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0114 Cat: B (Rel-17)  
  
 Source: Samsung*

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

**S3-214490 Clean up for clause 6.6.1**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0104 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces S3-213936)

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

### 4.13 User Plane Integrity Protection for LTE (Rel-17)

**S3-214035 Add clarification in EN-DC scenario**

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

**Decision:** The document was **revised to S3-214476**.

**S3-214083 Add details of algorithms to be supported**

*Type: other For: Approval  
 33.401 v..  
 Source: Ericsson*

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

**S3-214084 UE Capability to support UP IP with SeNB in DC**

*Type: other For: Approval  
 33.401 v..  
 Source: Ericsson*

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

**S3-214085 UE Capability to support UP IP with SgNB in EN-DC**

*Type: other For: Approval  
 33.401 v..  
 Source: Ericsson*

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

**S3-214086 Updates to clause 7.3.X on UP integrity protection policy**

*Type: other For: Approval  
 33.401 v..  
 Source: Ericsson*

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

**S3-214087 Updates to IW HO from EPS to 5GS in TS 33.501**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

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

**S3-214088 LS on support of User Plane integrity protection in EPS/LTE**

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

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

**S3-214139 Security requirements for UPIP over E-UTRA**

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

**Decision:** The document was **revised to S3-214435**.

**S3-214328 Draft CR to 33.401 - Living document on LTE UPIP**

*Type: draftCR For: Agreement  
 33.401 v16.3.0  
 Source: VODAFONE Group Plc*

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

**S3-214330 Draft CR to 33.501 - Living document on LTE UPIP**

*Type: draftCR For: Agreement  
 33.501 v17.3.0  
 Source: VODAFONE Group Plc*

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

**S3-214435 Security requirements for UPIP over E-UTRA**

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

(Replaces S3-214139)

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

**S3-214454 Addition of UPIP for LTE**

*Type: CR For: Agreement  
 33.401 v16.3.0 CR-0701 Cat: B (Rel-17)  
  
 Source: VODAFONE Group Plc*

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

**S3-214455 User Plane Integrity Protection Policy Handling in IW handover from EPS to 5GS**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1253 Cat: B (Rel-17)  
  
 Source: VODAFONE Group Plc*

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

**S3-214462 LS on LTE User Plane Integrity Protection**

*Type: LS out For: Approval  
 to RAN2, RAN3, cc SA,RAN  
 Source: VODAFONE Group Plc*

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

**S3-214476 Add clarification in EN-DC scenario**

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

(Replaces S3-214035)

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

### 4.14 Enhancements of 3GPP profiles for cryptographic algorithms and security protocols (Rel- 17)

**S3-213886 CR Updating SIP DIGEST IETF references from RFC 2617 to RFC 7616**

*Type: CR For: Agreement  
 33.203 v16.1.0 CR-0260 Cat: C (Rel-17)  
  
 Source: T-Mobile USA*

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

**S3-214055 implementation for living CR for SIP digest changes**

*Type: other For: Approval  
 33.203 v..  
 Source: Huawei, Hisilicon*

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

**S3-214063 CR for SIP digest**

*Type: CR For: Approval  
 33.203 v16.1.0 CR-0261 Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214501**.

**S3-214133 Correction to the GBA TLS 1.3 specification**

*Type: CR For: Agreement  
 33.222 v17.0.0 CR-0055 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-212842)

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

**S3-214134 GBA key re-negotiation with TLS 1.3**

*Type: CR For: Agreement  
 33.222 v17.0.0 CR-0056 Cat: C (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-214451**.

**S3-214216 Introducing support of TLS v1.3 in ProSe TS 33.303**

*Type: CR For: Agreement  
 33.303 v16.0.0 CR-0135 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**S3-214305 Security updates for algorithms and protocols in 33.310**

*Type: CR For: Agreement  
 33.310 v17.0.0 CR-0123 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**S3-214306 Security updates for algorithms and protocols in 33.328**

*Type: CR For: Agreement  
 33.328 v16.1.0 CR-0068 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214428**.

**S3-214307 Security updates for algorithms and protocols in 33.203**

*Type: CR For: Agreement  
 33.203 v16.1.0 CR-0262 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214429**.

**S3-214308 Living draftCRSecurity updates for algorithms and protocols for 33.310**

*Type: draftCR For: Approval  
 33.310 v17.0.0  
 Source: Ericsson*

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

**S3-214309 Living draftCR Security updates for algorithms and protocols for 33.210**

*Type: draftCR For: Approval  
 33.210 v16.4.0  
 Source: Ericsson*

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

**S3-214424 CR - Security updates for algorithms and protocols for 33.310**

*Type: CR For: Agreement  
 33.310 v17.0.0 CR-0124 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**S3-214426 CR - Security updates for algorithms and protocols for 33.210**

*Type: CR For: Agreement  
 33.210 v16.4.0 CR-0072 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**S3-214428 Security updates for algorithms and protocols in 33.328**

*Type: CR For: Agreement  
 33.328 v16.1.0 CR-0068 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-214306)

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

**S3-214429 Security updates for algorithms and protocols in 33.203**

*Type: CR For: Agreement  
 33.203 v16.1.0 CR-0262 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-214307)

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

**S3-214451 GBA key re-negotiation with TLS 1.3**

*Type: CR For: Agreement  
 33.222 v17.0.0 CR-0056 rev 1 Cat: C (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-214134)

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

**S3-214501 CR for SIP digest**

*Type: CR For: Approval  
 33.203 v16.1.0 CR-0261 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-214063)

**Decision:** The document was **revised to S3-214516**.

**S3-214516 CR for SIP digest**

*Type: CR For: Approval  
 33.203 v16.1.0 CR-0261 rev 2 Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon, T-Mobile US, Mavenir*

(Replaces S3-214501)

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

### 4.15 Security Aspects of Enhancements for 5G Multicast-Broadcast Services (Rel-17)

**S3-213872 LS on Multicast paging with TMGI**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2107995*

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

**S3-214009 living doc for 5MBS WID**

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

**Decision:** The document was **revised to S3-214422**.

**S3-214054 Authentication and authorization for MBS session**

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

**Decision:** The document was **revised to S3-214497**.

**S3-213934 Authenticaton and authorization for MBS service**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-214010 Update the clause of security mechanisms for MBS traffic transmission**

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

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

**S3-214150 5G MBS key management**

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

**Decision:** The document was **revised to S3-214436**.

**S3-214295 Key hierarchy, key distribution and key update in 5MBS**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1248 Cat: B (Rel-17)  
  
 Source: Philips International B.V.*

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

**S3-214018 Security protection for interworking between 5MBS and eMBMS**

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

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

**S3-213935 Security for MBS-eMBMS interworking**

*Type: other For: Approval  
 Source: ZTE Corporation*

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

**S3-214418 LS to SA2 on secondary authentication for multicast PDU session**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214538**.

**S3-214538 LS to SA2 on secondary authentication for multicast PDU session**

*Type: LS out For: -  
 to SA2  
 Source: Huawei, Hisilicon*

(Replaces S3-214418)

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

**S3-214422 living doc for 5MBS WID**

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

(Replaces S3-214009)

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

**S3-214436 5G MBS key management**

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

(Replaces S3-214150)

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

**S3-214464 Security aspects of 5MBS**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1255 Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

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

**S3-214497 Authentication and authorization for MBS session**

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

(Replaces S3-214054)

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

### 4.16 Security for enhanced support of Industrial IoT (Rel-17)

### 4.17 Security Aspects of eNPN (Rel-17)

**S3-213807 Reply LS on UE capabilities indication in UPU**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-212599*

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

**S3-213808 Reply LS on UE capabilities indication in UPU**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2106703*

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

**S3-213829 LS on UE capabilities indication in UPU**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2101072*

**Decision:** The document was **replied to in S3-214447**.

**S3-213833 Reply LS on updating the Credentials Holder controlled lists for SNPN selection**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2106705*

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

**S3-213873 LS on IMEI for Non-Public Networks/Private Networks without using USIM**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2108093*

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

**S3-213994 MSK derivation in external authentication**

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

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

**S3-214022 SUPI handling for EAP**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-214023 Exclude EAP-AKA' from AAA**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-214036 Definition to Anonymous SUPI**

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

**Decision:** The document was **revised to S3-214483**.

**S3-214080 Resolution to editor’s notes concerning identity sharing**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214081 Resolution of editor note related to selection of root key**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214515**.

**S3-214157 Resolution for EN on sending SUPI to SNPN**

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

**Decision:** The document was **revised to S3-214439**.

**S3-214158 Configuration of CH credentials**

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

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

**S3-213928 Update Nnssaaf\_AIW interface**

*Type: other For: Approval  
 33.501 v..  
 Source: CableLabs*

**Decision:** The document was **revised to S3-214484**.

**S3-214024 Initial access using AAA**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-214079 Adding methods for authentication during onboarding**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214156 Securing initial access for UE onboarding**

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

**Decision:** The document was **revised to S3-214543**.

**S3-214543 Securing initial access for UE onboarding**

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

(Replaces S3-214156)

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

**S3-214021 SUPI privacy for SNPN**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-214181 Protection for eNPN credential provisioning**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: Xiaomi Technology*

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

**S3-214287 Living document for eNPN: draftCR to TS 33.501 capturing Security aspects of eNPN**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: Ericsson, Huawei, HiSilicon, Qualcomm Incorporated, CableLabs, Charter Communications, Intel, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214437**.

**S3-214165 Update to Clause 6.15.2.1 Procedure for UE Parameters Update**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1228 Cat: B (Rel-17)  
  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

UPU procedure is extended to support new UPU data set type(s) provisioning (i.e., for additional data set type(s) other than Routing ID).

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

**S3-214437 Living document for eNPN: draftCR to TS 33.501 capturing Security aspects of eNPN**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: Ericsson, Huawei, HiSilicon, Qualcomm Incorporated, CableLabs, Charter Communications, Intel, Nokia, Nokia Shanghai Bell*

(Replaces S3-214287)

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

**S3-214439 Resolution for EN on sending SUPI to SNPN**

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

(Replaces S3-214157)

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

**S3-214446 Security aspects of eNPN**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1252 Cat: B (Rel-17)  
  
 Source: Ericsson, Huawei, HiSilicon, Qualcomm Incorporated, CableLabs, Charter Communications, Intel, Nokia, Nokia Shanghai Bell*

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

**S3-214447 Reply LS on UE capabilities indication in UPU**

*Type: LS out For: Approval  
 to SA2, CT1  
 Source: Qualcomm India Pvt Ltd*

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

**S3-214483 Clarification on anonymous SUCI related**

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

(Replaces S3-214036)

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

**S3-214484 Update Nnssaaf\_AIW interface**

*Type: other For: Approval  
 33.501 v..  
 Source: CableLabs*

(Replaces S3-213928)

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

**S3-214515 Resolution of editor note related to selection of root key**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, Qualcomm Incorporated*

(Replaces S3-214081)

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

### 4.18 Security Aspects of Enhancement of Support for Edge Computing in 5GC (Rel-17)

**S3-213848 Reply LS on EAS and ECS identifiers**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-212490*

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

**S3-213943 Authentication based on AKMA between EEC and ECS in clause 6.2**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: ZTE Corporation*

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

**S3-214067 Authentication and Authorization between EEC and ECS**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: Huawei, Hisilicon*

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

**S3-214275 Authentication and Authorization between EEC and ECS**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: Ericsson*

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

**S3-214277 OAuth 2.0 profile for EC**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: Ericsson*

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

**S3-214271 Solving the EN in the requirements**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: Ericsson*

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

**S3-213944 Authentication based on AKMA between EEC and EES in clause 6.3**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: ZTE Corporation*

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

**S3-214068 Authentication and Authorization between EEC and EES**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: Huawei, Hisilicon*

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

**S3-214276 Authentication and Authorization between EEC and EES**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: Ericsson*

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

**S3-213967 Authentication and Authorization between EES and ECS**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Intel Sweden AB*

**Decision:** The document was **revised to S3-214489**.

**S3-214069 Authentication and Authorization in EES capability exposure for non-CAPIF scenario**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214502**.

**S3-214070 New Annex for Edge computing security**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1222 Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214503**.

**S3-214489 Authentication and Authorization between EES and ECS**

*Type: pCR For: Approval  
 33.558 v0.1.0  
 Source: Intel Sweden AB*

(Replaces S3-213967)

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

**S3-214502 Authentication and Authorization in EES capability exposure for non-CAPIF scenario**

*Type: pCR For: Approval  
 33.558 v0.2.0  
 Source: Huawei, Hisilicon*

(Replaces S3-214069)

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

**S3-214503 New Annex for Edge computing security**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1222 rev 1 Cat: B (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-214070)

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

**S3-214508 Draft TS 33.558**

*Type: draft TS For: Approval  
 33.558 v0.3.0  
 Source: Huawei, Hisilicon*

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

**S3-214509 Rel-17 Work Item Exception for EDGE\_5GC**

*Type: WI exception request For: Approval  
 Source: Huawei, Hisilicon*

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

### 4.19 TLS protocols profiles for AKMA (Rel-17)

**S3-213945 Delete the GBA\_Digest in annex B.1.2.2**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0103 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-214491**.

**S3-214131 Corrections to the TLS with AKMA specification**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0098 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-212840)

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

**S3-214132 Adding TLS 1.3 with AKMA keys**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0099 rev 1 Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-212841)

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

**S3-214491 Delete the GBA\_Digest in annex B.1.2.2**

*Type: CR For: Agreement  
 33.535 v17.3.0 CR-0103 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces S3-213945)

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

### 4.20 Security aspects of Uncrewed Aerial Systems (Rel-17)

**S3-213900 AMF skipping UUAA procedure**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Futurewei Technologies*

**Abstract:**

AMF skipping UUAA procedure

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

**S3-213923 UUAA procedure at registration**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214463**.

**S3-214125 Proposed text for UUAA-MM**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Qualcomm Incorporated*

(Replaces S3-213517)

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

**S3-214161 UUAA during Registration**

*Type: pCR For: (not specified)  
 33.256 v0.2.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This contribution updates Clause 5.2.1 to include Clause 5.2.1.2 UUAA during registration in TS 33.256.

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

**S3-213924 UUAA procedure at PDU session establishment**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214465**.

**S3-213925 Pairing authorizaiton**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Huawei, Hisilicon, Lenovo, Motorola Mobility*

**Decision:** The document was **revised to S3-214466**.

**S3-214126 Proposed text for UUAA-SM**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Qualcomm Incorporated*

(Replaces S3-213518)

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

**S3-214162 UUAA during PDU Session Establishment**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This contribution proposes to update Clause 5.2.1 to include Clause 5.2.1.3 UUAA during PDU Session Establishment in TS 33.256.

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

**S3-214127 Proposed text for UUAA in EPS**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Qualcomm Incorporated*

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

**S3-213926 UUAA re-authentication identification EN**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Huawei, Hisilicon*

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

**S3-213927 addressing EN in revocation procedure**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Huawei, Hisilicon*

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

**S3-214121 Clarifications to UUAA Revocation**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This contribution updates Clause 5.2.1.5 UUAA Revocation in TS 33.256.

**Decision:** The document was **revised to S3-214453**.

**S3-214453 Clarifications to UUAA Revocation**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Lenovo, Motorola Mobility, Huawei, Hisilicon*

(Replaces S3-214121)

**Abstract:**

This contribution updates Clause 5.2.1.5 UUAA Revocation in TS 33.256.

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

**S3-214463 UUAA procedure at registration**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Huawei, Hisilicon, Lenovo, Motorola Mobility, Qualcomm, Interdigital*

(Replaces S3-213923)

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

**S3-214465 UUAA procedure at PDU session establishment**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Huawei, Hisilicon, Lenovo, Motorola Mobility, Qualcomm, Interdigital*

(Replaces S3-213924)

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

**S3-214466 Pairing authorization**

*Type: pCR For: Approval  
 33.256 v0.2.0  
 Source: Huawei, Hisilicon, Lenovo, Motorola Mobility, Interdigital*

(Replaces S3-213925)

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

**S3-214521 Draft TS 33.256**

*Type: draft TS For: Approval  
 33.256 v0.3.0  
 Source: Qualcomm CDMA Technologies*

(Replaces S3-213710)

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

**S3-214522 Cover sheet for TS 33.256**

*Type: TS or TR cover For: Approval  
 33.256 v0.3.0  
 Source: Qualcomm Incorporated*

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

**S3-214523 Exception sheet for UAS**

*Type: WI exception request For: Approval  
 Source: Qualcomm Incorporated*

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

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

**S3-213871 Reply LS on Layer-3 UE-to-Network Relay authentication and authorization**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2107976*

**Decision:** The document was **replied to in S3-214443**.

**S3-214110 pCR to TS33.503 Clause 4.2-Change reference point name**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: CATT*

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

**S3-214043 Update clause 4**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214473**.

**S3-213946 Network domain security**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: ZTE Corporation*

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

**S3-213947 Security of Npc2 interface**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: ZTE Corporation*

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

**S3-213948 Security of UE 5G DDNMF interface**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: ZTE Corporation*

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

**S3-214028 Add content to clause 5**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214472**.

**S3-214177 33.503: Common Security**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Xiaomi Technology*

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

**S3-214215 Security for UE to 5G DDNMF communication and for UE to 5G PKMF communication**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Ericsson*

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

**S3-213949 Security requirements for 5G ProSe Direct Discovery**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: ZTE Corporation*

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

**S3-213950 Security procedures for 5G ProSe Direct Discovery**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: ZTE Corporation*

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

**S3-214044 Add text to clause 6.1**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon*

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

**S3-214076 open discovery**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon*

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

**S3-214077 restricted discovery**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon*

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

**S3-214147 CR to ProSe TS – Direct Discovery**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Qualcomm Incorporated, CATT*

**Decision:** The document was **revised to S3-214441**.

**S3-214148 CR to ProSe TS – Security Requirements in Direct Discovery**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Qualcomm Incorporated, CATT*

**Decision:** The document was **revised to S3-214444**.

**S3-214301 pCR to 5G ProSe draft TS clause 6.1-Security for 5G ProSe Discovery**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Philips International B.V.*

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

**S3-214105 pCR to TS33.503-Remove groupcast related content**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: CATT*

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

**S3-214006 Propose text to clause 6.3 about PC5 unicast**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei,HiSilicon, LG Electronics*

**Decision:** The document was **revised to S3-214470**.

**S3-214112 pCR to TS33.503 Clause 6.3-Security for Unicast mode 5G ProSe Direct Communication**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: CATT*

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

**S3-214279 Add a new clause on security policy provisioning**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon,Xiaomi*

(Replaces S3-214031)

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

**S3-214045 Add a new clause on the privacy of DCR**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon*

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

**S3-214178 33.503: Security for Unicast Mode Direct Communication**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Xiaomi Technology*

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

**S3-214315 Refresh of security context for PC5 unicast communication**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: KPN N.V.*

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

**S3-214214 Security requirements for UE-to-network relay**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Ericsson*

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

**S3-214324 Add new clauses on privacy protection for UE-to-NW relays**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Philips International B.V.*

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

**S3-213912 NSSAA for Remote UE with L3 U2N relay without N3IWF**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: InterDigital, Europe, Ltd., LG Electronics*

**Abstract:**

This contribution proposes a text on NSSAA for Remote UE with L3 U2N relay without N3IWF in ProSe TS 33.503

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

**S3-213971 Secondary Authentication for Remote UE with L3 U2N relay without N3IWF**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: LG Electronics, InterDigital*

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

**S3-214042 Proposal for U2NW relay authentication, authorization and key management**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei,HiSilicon*

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

**S3-214140 User-plane UE-to-network relay connection procedure**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Qualcomm Incorporated, Ericsson*

**Decision:** The document was **revised to S3-214438**.

**S3-214179 33.503: Security for L3 U2N Relay Communication**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-214488**.

**S3-214218 Proposal for U2NW relay authentication, authorization and key management**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Samsung, Interdigital, LG Electronics, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214495**.

**S3-214027 Adding security description for L2 solution**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214471**.

**S3-214180 33.503: Security for L2 U2N Relay Communication**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Xiaomi Technology*

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

**S3-214031 Add a new clause on security policy provisioning**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214279**.

**S3-214438 User-plane UE-to-network relay connection procedure**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Qualcomm Incorporated, Ericsson*

(Replaces S3-214140)

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

**S3-214441 CR to ProSe TS – Direct Discovery**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Qualcomm Incorporated, CATT, ZTE, Huawei, HiSilicon*

(Replaces S3-214147)

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

**S3-214443 Reply LS on Layer-3 UE-to-Network Relay authentication and authorization**

*Type: LS out For: (not specified)  
 to SA2, cc CT1  
 Source: QUALCOMM JAPAN LLC.*

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

**S3-214444 CR to ProSe TS – Security Requirements in Direct Discovery**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Qualcomm Incorporated, CATT, ZTE*

(Replaces S3-214148)

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

**S3-214470 Propose text to clause 6.3 about PC5 unicast**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei; HiSilicon, LG Electronics, CATT, Xiaomi*

(Replaces S3-214006)

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

**S3-214471 Adding security description for L2 solution**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon, Xiaomi*

(Replaces S3-214027)

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

**S3-214472 Add content to clause 5**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon, ZTE, Xiaomi, Ericsson*

(Replaces S3-214028)

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

**S3-214473 Update clause 4**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214043)

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

**S3-214488 33.503: Security for L3 U2N Relay Communication**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Xiaomi Technology*

(Replaces S3-214179)

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

**S3-214495 Proposal for U2NW relay authentication, authorization and key management**

*Type: pCR For: Approval  
 33.503 v0.1.0  
 Source: Samsung, Interdigital, LG Electronics, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

(Replaces S3-214218)

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

**S3-214510 Rel-17 Work Item Exception for 5G\_ProSe Security Aspects**

*Type: WI exception request For: Approval  
 Source: CATT*

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

**S3-214511 Draft TS 33.503 v0.2.0 Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS)**

*Type: draft TS For: Approval  
 33.503 v0.2.0  
 Source: CATT*

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

### 4.22 Security Aspects of User Consent for 3GPP services (Rel-17)

**S3-213862 Baseline of user conent living CR for SA3#105-e**

*Type: other For: Approval  
 Source: Ericsson*

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

**S3-213995 Living CR for UC3S in TS 33.501**

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

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

**S3-213996 User consent check**

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

**Decision:** The document was **revised to S3-214478**.

**S3-213997 User consent revocation**

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

**Decision:** The document was **revised to S3-214479**.

**S3-214017 User Consent Requirement**

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

**Decision:** The document was **revised to S3-214480**.

**S3-214182 Validity and revocation of consent**

*Type: other For: Approval  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214434**.

**S3-214434 Validity and revocation of consent**

*Type: other For: Approval  
 Source: Ericsson*

(Replaces S3-214182)

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

**S3-214457 Living document for UC3S: draftCR to TS 33.501 capturing Security aspects of user consent**

*Type: draftCR For: (not specified)  
 33.501 v17.3.0  
 Source: Huawei, HiSilicon*

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

**S3-214459 Security aspects of User Consent**

*Type: CR For: (not specified)  
 33.501 v17.3.0 CR-1254 Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-214477 Living CR for UC3S in TS 33.501**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson*

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

**S3-214478 User consent check**

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

(Replaces S3-213996)

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

**S3-214479 User consent revocation**

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

(Replaces S3-213997)

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

**S3-214480 User Consent Requirement**

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

(Replaces S3-214017)

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

### 4.23 Security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) (Rel-17)

**S3-214094 living CR for eNA**

*Type: draftCR For: Agreement  
 33.501 v17.3.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-214493**.

**S3-214264 Authorization mechanisms for data consumer to access data from data producer via DCCF**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility, Mavenir, Verizon*

**Decision:** The document was **revised to S3-214513**.

**S3-214265 Authorization mechanisms for data consumer to access data from data producer when notification sent via MFAF**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility*

**Decision:** The document was **revised to S3-214514**.

**S3-214303 Update on Authorization of NF Service Consumers for data access via DCCF**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson*

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

**S3-214304 Security protection of data via Messaging Framework**

*Type: other For: Approval  
 33.501 v..  
 Source: Ericsson, Lenovo, Motorola Mobility*

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

**S3-214493 living CR for eNA**

*Type: draftCR For: Agreement  
 33.501 v17.3.0  
 Source: China Mobile*

(Replaces S3-214094)

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

**S3-214494 CR for eNA**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1256 Cat: B (Rel-17)  
  
 Source: China Mobile E-Commerce Co.*

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

**S3-214513 Authorization mechanisms for data consumer to access data from data producer via DCCF**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility, Mavenir, Verizon, Ericsson, Huawei, HiSilicon, China mobile*

(Replaces S3-214264)

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

**S3-214514 Authorization mechanisms for data consumer to access data from data producer when notification sent via MFAF**

*Type: other For: Approval  
 33.501 v..  
 Source: Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility*

(Replaces S3-214265)

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

### 4.24 Security aspects of the 5GMSG Service (Rel-17)

**S3-214108 living document of 5GMSG**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-214430**.

**S3-214109 Change request to living document-MSGin5G**

*Type: other For: Approval  
 33.501 v..  
 Source: China Mobile*

**Decision:** The document was **revised to S3-214517**.

**S3-214220 [5gMSG] CR to living document: Authorization of MSG Client**

*Type: other For: Agreement  
 Source: Samsung*

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

**S3-214430 living document of 5GMSG**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: China Mobile*

(Replaces S3-214108)

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

**S3-214517 Change request to living document-MSGin5G**

*Type: other For: Approval  
 33.501 v..  
 Source: China Mobile*

(Replaces S3-214109)

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

**S3-214518 Security aspects of MSGin5G**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1257 Cat: B (Rel-17)  
  
 Source: China Mobile*

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

### 4.25 New work item proposals for Rel-17/Rel-18

**S3-213847 Study of privacy of identities over radio access**

*Type: SID new For: Approval  
 Source: InterDigital, Inc., Apple, AT&T, CableLabs, Convida Wireless, Futurewei, Intel, Motorola Mobility, Nokia, Nokia Shanghai Bell, Telefonica, Verizon Wireless*

**Abstract:**

This proposed study is to result in a comprehensive investigation of various 3GPP identities, their privacy requirements, possible privacy attacks involving 3GPP identities, and potential attack remediations, while initially concentrating on the identitie

**Decision:** The document was **revised to S3-214296**.

**S3-213888 New WID on Non-Seamless WLAN offload Authentication in 5GS**

*Type: WID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

New WID proposal for NSWO

**Decision:** The document was **revised to S3-214433**.

**S3-213903 Mission Critical R18 WID**

*Type: WID new For: Agreement  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Mission Critical R18 WID

**Decision:** The document was **revised to S3-214485**.

**S3-213920 WID on enhanced security for Phase 2 network slicing**

*Type: WID new For: Agreement  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214460**.

**S3-213976 New WID proposal for MINT**

*Type: WID new For: Approval  
 Source: LG Electronics, LG Uplus, KT Corp, SK Telecom*

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

**S3-213981 WID of 5GFBS**

*Type: WID new For: Approval  
 Source: Apple*

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

**S3-214032 Discuss on a new study on Home network triggerred authenticaiton Huawei, HiSilicon endorsement Approval**

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

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

**S3-214033 New WID on Security Assurance Specification for Management Function**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214482**.

**S3-214034 New WID for SCAS work to introduce R-17 features on existing functions**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-214092 New WID on SECAM and SCAS for 3GPP virtualized network products**

*Type: WID new For: Approval  
 Source: China Mobile*

**Decision:** The document was **revised to S3-214492**.

**S3-214093 New SID on interworking between 3GPP NF and security devices**

*Type: SID new For: Approval  
 Source: China Mobile*

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

**S3-214201 FS\_eSBA\_SEC - SID revision**

*Type: SID revised For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214535**.

**S3-214202 WID\_eSBA\_SEC**

*Type: WID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214203 WID\_N32\_SEC**

*Type: WID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214217 Update to WID on 3GPP profiles for cryptographic algorithms and security protocols**

*Type: WID revised For: Approval  
 Source: Ericsson*

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

**S3-214237 New WID for SEAL security enhancement**

*Type: WID new For: Approval  
 Source: Samsung*

**Decision:** The document was **revised to S3-214496**.

**S3-214238 SID on user plane security enhancement**

*Type: SID new For: Approval  
 Source: Samsung*

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

**S3-214244 New WID on the security of AMF re-allocation**

*Type: WID new For: Agreement  
 Source: Ericsson*

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

**S3-214248 New WID on Authentication enhancements in 5GS**

*Type: WID new For: Agreement  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214445**.

**S3-214296 Study of privacy of identities over radio access**

*Type: SID new For: Approval  
 Source: InterDigital, Inc., Apple, AT&T, CableLabs, Convida Wireless, Futurewei, Intel, Motorola Mobility, Nokia, Nokia Shanghai Bell, Samsung, Telefonica, Verizon Wireless*

(Replaces S3-213847)

**Abstract:**

Note that this uploaded version is a revision of S3-213847 with new supporting companies added. This proposed study is to result in a comprehensive investigation of various 3GPP identities, their privacy requirements, possible privacy attacks involving 3G

**Decision:** The document was **revised to S3-214487**.

**S3-214433 New WID on Non-Seamless WLAN offload Authentication in 5GS**

*Type: WID new For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-213888)

**Abstract:**

New WID proposal for NSWO

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

**S3-214445 New WID on Authentication enhancements in 5GS**

*Type: WID new For: Agreement  
 Source: Ericsson*

(Replaces S3-214248)

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

**S3-214460 WID on enhanced security for Phase 2 network slicing**

*Type: WID new For: Agreement  
 Source: Huawei, Hisilicon, Lenovo, Motorola Mobility, China Mobile, China Unicom, CATT, ZTE, CAICT, Xiaomi*

(Replaces S3-213920)

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

**S3-214482 New WID on Security Assurance Specification for Management Function (MnF)**

*Type: WID new For: Approval  
 Source: Huawei, HiSilicon*

(Replaces S3-214033)

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

**S3-214485 Mission Critical R18 WID**

*Type: WID new For: Agreement  
 Source: Motorola Solutions Danmark A/S*

(Replaces S3-213903)

**Abstract:**

Mission Critical R18 WID

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

**S3-214487 New Study of privacy of identifiers over radio access**

*Type: SID new For: Approval  
 Source: InterDigital, Inc., Apple, AT&T, CableLabs, CATT, CISA ECD, Convida Wireless, Ericsson, Futurewei, Intel, Johns Hopkins University APL, Mavenir, Motorola Mobility, Nokia, Nokia Shanghai Bell, Peraton Labs, Phillips, Samsung, Telefonica, T-Mobile US, US NI*

(Replaces S3-214296)

**Abstract:**

This SID request is revised from S3-214296-r7 approved over the second week of SA3#105-e.

This proposed Study is to result in a comprehensive investigation of various 3GPP identifiers (e.g., user, subscriber, access network, core network, etc.), their pri

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

**S3-214492 New WID on SECAM and SCAS for 3GPP virtualized network products**

*Type: WID new For: Approval  
 Source: China Mobile*

(Replaces S3-214092)

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

**S3-214496 New WID for SEAL security enhancement**

*Type: WID new For: Approval  
 Source: Samsung*

(Replaces S3-214237)

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

**S3-214535 FS\_eSBA\_SEC - SID revision**

*Type: SID revised For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214201)

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

### 4.26 Other work areas (no release restrictions)

**S3-213863 AMF - Expected result for test case not defined in the specifications**

*Type: CR For: Approval  
 33.512 v16.5.0 CR-0014 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

The behaviour in case of incorrect RES\* from UE to AMF is defined in TS 33.501.

The current “expected result” (NULL value of RES\* in Nausf\_UEAuthentication\_Authenticate Request) is not contemplated in the specification

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

**S3-213864 AMF - Expected result for test case not defined in the specifications**

*Type: CR For: Approval  
 33.512 v17.1.0 CR-0015 Cat: A (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

The behavior in case of incorrect RES\* from UE to AMF is defined in TS 33.501.

The current “expected result” (NULL value of RES\* in Nausf\_UEAuthentication\_Authenticate Request) is not contemplated in the specification.

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

**S3-213865 AMF - NAS protection algorithm selection in AMF change**

*Type: CR For: Approval  
 33.512 v16.5.0 CR-0016 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Pre-conditions in the test case are not clear, 2 gNBs are needed to perform the N2-handover, also with 2 AMFs (source and target (SUT))

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

**S3-213866 AMF - NAS protection algorithm selection in AMF change**

*Type: CR For: Approval  
 33.512 v17.1.0 CR-0017 Cat: A (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Pre-conditions in the test case are not clear, 2 gNBs are needed to perform the N2-handover, also with 2 AMFs (source and target (SUT))

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

**S3-213879 AMF – precondition bidding down prevention in Xn-handover test**

*Type: CR For: Approval  
 33.512 v16.5.0 CR-0020 Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Pre-conditions in the test case are not clear, 2 gNBs are needed to perform the Xn-handover.

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

**S3-213880 AMF – precondition bidding down prevention in Xn-handover test**

*Type: CR For: Approval  
 33.512 v17.1.0 CR-0021 Cat: A (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Abstract:**

Pre-conditions in the test case are not clear, 2 gNBs are needed to perform the Xn-handover.

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

**S3-214115 Clarification to TEID uniqueness test case**

*Type: CR For: (not specified)  
 33.513 v16.2.0 CR-0006 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Clarification to test case how many concurrent N4 sessions are needed

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

**S3-214116 Clarification to TEID uniqueness test case**

*Type: CR For: (not specified)  
 33.513 v17.0.0 CR-0007 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Clarification to test case how many concurrent N4 sessions are needed

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

**S3-214113 Editorial and corrections**

*Type: CR For: Agreement  
 33.916 v16.0.0 CR-0008 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Editorials and corrections for better reading

**Decision:** The document was **revised to S3-214420**.

**S3-213890 Support for NSWO in 5GS**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1202 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell,AT&T,Lenovo,Motorola Mobility,Qualcomm Incorporated*

**Decision:** The document was **revised to S3-214432**.

**S3-213905 [33.180] R15 KMS message signature clarification**

*Type: CR For: Agreement  
 33.180 v15.10.0 CR-0178 Cat: F (Rel-15)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Signature clarification for KMS Request and KMS Response messages

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

**S3-213906 [33.180] R16 KMS message signature clarification (mirror)**

*Type: CR For: Agreement  
 33.180 v16.7.0 CR-0179 Cat: A (Rel-16)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Signature for KMS Request and KMS response messages (mirror)

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

**S3-213907 [33.180] R17 KMS message signature clarification (mirror)**

*Type: CR For: Agreement  
 33.180 v17.4.0 CR-0180 Cat: A (Rel-17)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Signature for KMS Request and KMS Response messages (mirror)

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

**S3-213908 [33.180] R15 MIKEY signature clarification**

*Type: CR For: Agreement  
 33.180 v15.10.0 CR-0181 Cat: F (Rel-15)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

MIKEY signature clarification

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

**S3-213909 [33.180] R16 MIKEY signature clarification (mirror)**

*Type: CR For: Agreement  
 33.180 v16.7.0 CR-0182 Cat: A (Rel-16)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

MIKEY signature clarification

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

**S3-213910 [33.180] R17 MIKEY signature clarification (mirror)**

*Type: CR For: Agreement  
 33.180 v17.4.0 CR-0183 Cat: A (Rel-17)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

MIKEY signature clarification (mirror)

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

**S3-213921 clarification on optional EAP ID Request in NSSAA Procedure**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1205 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-213922 Serving network ID in NSSAA**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1206 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-213929 Verification of NSSAIs for preventing slice attack**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1207 Cat: F (Rel-16)  
  
 Source: CableLabs*

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

**S3-213930 Verification of NSSAIs for preventing slice attack**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1208 Cat: A (Rel-17)  
  
 Source: CableLabs*

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

**S3-213977 TS 33.501 Rel-17 security aspects on MINT feature**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1209 Cat: B (Rel-17)  
  
 Source: LG Electronics Inc.*

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

**S3-213987 Discussion paper on physical layer security**

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

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

**S3-213989 Discussion on Integrity check during mobility procedure**

*Type: discussion For: Agreement  
 Source: NEC Telecom MODUS Ltd.*

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

**S3-213990 Integrity check during context transfer scenario 1**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1210 Cat: F (Rel-17)  
  
 Source: NEC Telecom MODUS Ltd.*

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

**S3-213991 Integrity check during context transfer scenario 2**

*Type: CR For: (not specified)  
 33.501 v17.3.0 CR-1211 Cat: F (Rel-17)  
  
 Source: NEC Telecom MODUS Ltd.*

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

**S3-214007 Propose to mitigate bidding-down attack**

*Type: CR For: Approval  
 33.536 v16.4.0 CR-0026 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-214014 Rel17 Clarification about multiple horizontal key derivations upon AMF re-allocation via direct NAS reroute**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1212 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-214046 clarification on handling the security context in MR**

*Type: CR For: Approval  
 33.501 v15.14.0 CR-1215 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

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

**S3-214047 clarification on handling the security context in MR**

*Type: CR For: Approval  
 33.501 v16.8.0 CR-1216 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-214048 clarification on handling the security context in MR**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1217 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-214056 removal of unspecified validity of AV-R16**

*Type: CR For: Approval  
 33.501 v16.8.0 CR-1218 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214498**.

**S3-214057 removal of unspecified validity of AV-R17**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1219 Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214499**.

**S3-214058 clarification on NAS count handling-R16**

*Type: CR For: Approval  
 33.501 v16.8.0 CR-1220 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-214059 clarification on NAS count handling-R17**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1221 Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

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

**S3-214071 Clarification on the emergency test**

*Type: CR For: Approval  
 33.116 v14.1.0 CR-0002 Cat: F (Rel-14)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214504**.

**S3-214089 Clarification on the emergency test - Rel15**

*Type: CR For: Approval  
 33.116 v15.0.0 CR-0003 Cat: A (Rel-15)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214506**.

**S3-214090 Clarification on the emergency test - Rel16**

*Type: CR For: Approval  
 33.116 v16.0.0 CR-0004 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214507**.

**S3-214118 SUPI in Notifications from NSSAAF**

*Type: CR For: (not specified)  
 33.501 v16.8.0 CR-1226 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Add the supi attribute in the NSSAA Reauthentication and Revocation Requests

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

**S3-214122 SUPI in Notifications from NSSAAF**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1227 Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Add the supi attribute in the NSSAA Reauthentication and Revocation Requests

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

**S3-214138 Confirming UE supported algorithms in Path Switch procedure**

*Type: CR For: Agreement  
 33.401 v16.3.0 CR-0700 Cat: C (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-214452**.

**S3-214037 Correction to Authorization for indirect communication with delegated discovery procedure in rel16**

*Type: CR For: Approval  
 33.501 v16.8.0 CR-1213 Cat: F (Rel-16)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **revised to S3-214474**.

**S3-214038 Correction to Authorization for indirect communication with delegated discovery procedure in rel17**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1214 Cat: A (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **revised to S3-214475**.

**S3-214073 Clarification on the TLS mechanism betwee SEPPs**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1223 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

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

**S3-214102 Resolving the EN on the authorization between SCPs**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1225 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-214187 SBA CR CCA in roaming R16**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1229 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214188 SBA CR CCA in roaming R17**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1230 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214189 SBA CR NRF-NRF mutual auth R16**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1231 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214530**.

**S3-214190 SBA CR NRF-NRF mutual auth R17**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1232 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214531**.

**S3-214191 SBA CR Alignment for Oauth2.0 validation R15**

*Type: CR For: Agreement  
 33.501 v15.14.0 CR-1233 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214192 SBA CR Alignment for Oauth2.0 validation R16**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1234 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214193 SBA CR Alignment for Oauth2.0 validation R17**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1235 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214194 SBA CR NRF deployments R17**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1236 Cat: F (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214195 SBA CR N32 for interconnect R16**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1237 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214532**.

**S3-214196 SBA CR N32 for interconnect R17**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1238 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214533**.

**S3-214288 Clarification audience of CCA**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1245 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-214289 Clarification audience of CCA**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1246 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-214290 Certificate profile for SCP and SEPP**

*Type: CR For: Agreement  
 33.310 v16.8.0 CR-0121 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-214291 Certificate profile for SCP and SEPP**

*Type: CR For: Agreement  
 33.310 v17.0.0 CR-0122 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-214292 SEPP include and verify source PLMN-ID**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1247 Cat: F (Rel-17)  
  
 Source: Ericsson*

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

**S3-214197 IPUPS overload control R17**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1239 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214230 KIAB generation for NR-DC scenario**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1242 Cat: B (Rel-17)  
  
 Source: Samsung, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, Intel*

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

**S3-214272 Security for CoAP interfaces in SEAL**

*Type: CR For: Agreement  
 33.434 v16.2.0 CR-0004 Cat: B (Rel-17)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214431**.

**S3-214130 Adding MACS as an input parameter to the calculation of AK\* to provide freshness**

*Type: CR For: Agreement  
 33.102 v16.0.0 CR-0277 rev 4 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, Thales*

(Replaces S3-212846)

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

**S3-214316 Addition of MAC-S for authentication enhancement**

*Type: CR For: Agreement  
 33.102 v16.0.0 CR-0281 Cat: F (Rel-17)  
  
 Source: THALES, IDEMIA*

**Abstract:**

Addition of MAC-S for authentication enhancement

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

**S3-213895 Security Protection of SQN during AKA re-synchronisations**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1203 Cat: C (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214329 Avoiding unencrypted radio interface data transfer**

*Type: CR For: Approval  
 33.501 v16.8.0 CR-1250 Cat: F (Rel-16)  
  
 Source: Vodafone*

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

**S3-214331 Avoiding unencrypted radio interface data transfer**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1251 Cat: A (Rel-17)  
  
 Source: Vodafone*

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

**S3-214074 Resolving the EN on the authorization between SCPs**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1224 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

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

**S3-214261 Discussion on the SBA services to support NSWO authentication**

*Type: discussion For: (not specified)  
 33.501 v..  
 Source: Ericsson*

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

**S3-214262 SBA services of AUSF/UDM for NSWO authentication**

*Type: CR For: (not specified)  
 33.501 v17.3.0 CR-1244 Cat: B (Rel-17)  
  
 Source: Ericsson*

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

**S3-214420 Editorial and corrections**

*Type: CR For: Agreement  
 33.916 v16.0.0 CR-0008 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-214113)

**Abstract:**

Editorials and corrections for better reading

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

**S3-214421 Editorial and corrections**

*Type: CR For: Agreement  
 33.916 v14.3.0 CR-0009 Cat: F (Rel-14)  
  
 Source: Ericsson*

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

**S3-214423 Editorial and corrections**

*Type: CR For: Agreement  
 33.916 v15.1.0 CR-0010 Cat: A (Rel-15)  
  
 Source: Ericsson*

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

**S3-214431 Security for CoAP interfaces in SEAL**

*Type: CR For: Agreement  
 33.434 v16.2.0 CR-0004 rev 1 Cat: B (Rel-17)  
  
 Source: Ericsson, Samsung*

(Replaces S3-214272)

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

**S3-214432 Support for NSWO in 5GS**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1202 rev 1 Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell,AT&T,Lenovo,Motorola Mobility,Qualcomm Incorporated, Intel, Samsung*

(Replaces S3-213890)

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

**S3-214440 Certificate profile for SCP and SEPP**

*Type: draftCR For: Approval  
 33.501 v16.8.0  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

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

**S3-214442 SEPP include and verify source PLMN-ID**

*Type: draftCR For: Approval  
 33.501 v17.3.0  
 Source: Ericsson*

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

**S3-214452 Confirming UE supported algorithms in Path Switch procedure**

*Type: CR For: Agreement  
 33.401 v16.3.0 CR-0700 rev 1 Cat: C (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-214138)

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

**S3-214474 Correction to Authorization for indirect communication**

*Type: CR For: Approval  
 33.501 v16.8.0 CR-1213 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-214037)

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

**S3-214475 Correction to Authorization for indirect communication**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1214 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-214038)

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

**S3-214498 removal of unspecified validity of AV-R16**

*Type: CR For: Approval  
 33.501 v16.8.0 CR-1218 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-214056)

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

**S3-214499 removal of unspecified validity of AV-R17**

*Type: CR For: Approval  
 33.501 v17.3.0 CR-1219 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-214057)

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

**S3-214504 Clarification on the emergency test**

*Type: CR For: Approval  
 33.116 v14.1.0 CR-0002 rev 1 Cat: F (Rel-14)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-214071)

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

**S3-214506 Clarification on the emergency test - Rel15**

*Type: CR For: Approval  
 33.116 v15.0.0 CR-0003 rev 1 Cat: A (Rel-15)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-214089)

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

**S3-214507 Clarification on the emergency test - Rel16**

*Type: CR For: Approval  
 33.116 v16.0.0 CR-0004 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-214090)

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

**S3-214530 SBA CR NRF-NRF mutual auth R16**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1231 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214189)

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

**S3-214531 SBA CR NRF-NRF mutual auth R17**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1232 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214190)

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

**S3-214532 SBA CR N32 for interconnect R16**

*Type: CR For: Agreement  
 33.501 v16.8.0 CR-1237 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214195)

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

**S3-214533 SBA CR N32 for interconnect R17**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1238 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214196)

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

**S3-214534 SBA CR NRF deployments R17**

*Type: draftCR For: Agreement  
 33.501 v17.3.0  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

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

## 5 Studies areas

### 5.1 Study on 5G security enhancement against false base stations

**S3-213825 LS Reply to SA3 on security protection on RRCResumeRequest message**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2109121*

**Decision:** The document was **replied to in S3-214525**.

**S3-213978 5GFBS-Conclusion for solution#17**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Apple*

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

**S3-213979 5GFBS-Reply LS to R2-2109121 on protection of RRCResumerequest message**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Apple*

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

**S3-214016 Clarifications on solution 17**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Huawei, HiSilicon*

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

**S3-214151 Conclusion for KI #1**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Qualcomm Incorporated*

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

**S3-213980 5GFBS- Update solution#27 on UE local security policy**

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

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

**S3-214019 addressing the editor's notes in sol#27**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214379**.

**S3-214152 Conclusion for KI #2**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Qualcomm Incorporated*

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

**S3-214280 New Solution: Shared key based MIB/SIBs protection with enhanced protection against replay/MitM attacks**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Philips International B.V.*

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

**S3-214325 LS out on authenticity and replay protection of system information**

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

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

**S3-213913 Update to solution #25**

*Type: pCR For: Approval  
 33.809 v0.15.0  
 Source: Huawei, HiSilicon*

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

**S3-213914 Evaluation of solution #4**

*Type: pCR For: Approval  
 33.809 v0.15.0  
 Source: Huawei, HiSilicon*

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

**S3-213915 Conclusion for KI#3**

*Type: pCR For: Approval  
 33.809 v0.15.0  
 Source: Huawei, HiSilicon*

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

**S3-214153 Conclusion for KI #3**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Qualcomm Incorporated*

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

**S3-214098 Detection of MitM attacks with secret paging**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Lenovo, Motorola Mobility*

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

**S3-213964 Update Annex B in TR 33.809**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: CableLabs*

**Decision:** The document was **revised to S3-214392**.

**S3-214379 addressing the editor's notes in sol#27**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214019)

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

**S3-214392 Update Annex B in TR 33.809**

*Type: pCR For: Approval  
 33.809 v0.16.0  
 Source: CableLabs*

(Replaces S3-213964)

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

**S3-214408 Draft TR 33.809**

*Type: draft TR For: Approval  
 33.809 v0.17.0  
 Source: Apple (UK) Limited*

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

**S3-214525 LS Reply on security protection of RRCResumeRequest message**

*Type: LS out For: (not specified)  
 to RAN2, RAN3  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-214539**.

**S3-214539 LS Reply on security protection of RRCResumeRequest message**

*Type: LS out For: -  
 to RAN2, RAN3  
 Source: NTT DOCOMO INC.*

(Replaces S3-214525)

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

### 5.2 Study on User Plane Integrity Protection

### 5.3 Study on Security Impacts of Virtualisation

**S3-213884 New solution: Ticket based access control for administrators**

*Type: pCR For: Approval  
 33.848 v0.9.0  
 Source: MITRE Corporation*

**Abstract:**

A solution that uses a token based authentication system and ABAC as a method to solve the single administrator domain and MANO single point of failure issues.

**Decision:** The document was **revised to S3-214390**.

**S3-213896 New solution for Ki#13: Remote Attestation on 3GPP level**

*Type: pCR For: Approval  
 33.848 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This solution proposes tying of provisioning of 3GPP level identities and credentials to the process of remote attestation. A high level outline of the needed protocol is presented.

**Decision:** The document was **revised to S3-214393**.

**S3-213897 New Solution Using Boot Time Attestation for NF Registration**

*Type: pCR For: Approval  
 33.848 v0.9.0  
 Source: Johns Hopkins University APL, US National Security Agency, CableLabs, InterDigital, AT&T, CISA ECD*

**Abstract:**

This pCR provides a new solution to address Key Issue #13 Attestation at 3GPP Function Level

**Decision:** The document was **revised to S3-214391**.

**S3-214390 New solution: Ticket based access control for administrators**

*Type: pCR For: Approval  
 33.848 v0.9.0  
 Source: MITRE Corporation*

(Replaces S3-213884)

**Abstract:**

A solution that uses a token based authentication system and ABAC as a method to solve the single administrator domain and MANO single point of failure issues.

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

**S3-214391 New Solution Using Boot Time Attestation for NF Registration**

*Type: pCR For: Approval  
 33.848 v0.9.0  
 Source: Johns Hopkins University APL, US National Security Agency, CableLabs, InterDigital, AT&T, CISA ECD, NIST*

(Replaces S3-213897)

**Abstract:**

This pCR provides a new solution to address Key Issue #13 Attestation at 3GPP Function Level

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

**S3-214393 New solution for Ki#13: Remote Attestation on 3GPP level**

*Type: pCR For: Approval  
 33.848 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-213896)

**Abstract:**

This solution proposes tying of provisioning of 3GPP level identities and credentials to the process of remote attestation. A high level outline of the needed protocol is presented.

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

**S3-214406 draft TR 33.848**

*Type: draft TR For: Agreement  
 33.848 v0.10.0  
 Source: BT plc*

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

### 5.4 Study on authentication enhancements in 5GS

**S3-213834 Reply to LS on Resynchronisations**

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

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

**S3-213836 Reply LS on Security risk evaluation of using long term key for another key derivation than AKA**

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

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

**S3-214249 Remove Editor's Notes in key issue #3.1**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: Ericsson*

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

**S3-213851 Update to solution #2.1**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

**Abstract:**

It is proposed to change the declared security properties of Solution #2.1 in TR 33.846

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

**S3-213852 Update to solution #2.2**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

**Abstract:**

It is proposed to change Solution #2.2 in TR 33.846

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

**S3-213853 Update to solution #2.3**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

**Abstract:**

It is proposed to remove Solution #2.3 from TR 33.846

**Decision:** The document was **revised to S3-214358**.

**S3-213854 Update to solution #2.4**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

**Abstract:**

It is proposed to change the declared security properties of Solution #2.4 in TR 33.846

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

**S3-213855 Update to solution #2.5**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

**Abstract:**

It is proposed to change the declared security properties of Solution #2.5 in TR 33.846

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

**S3-213859 Update to solution #2.12**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

**Abstract:**

It is proposed to change Solution #2.12 in TR 33.846

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

**S3-213892 Editor note removal for solution#2.8**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-213856 Update to solution #3.1**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

**Abstract:**

It is proposed to change Solution #3.1 in TR 33.846

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

**S3-213857 Update to solution #4.3**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

**Abstract:**

It is proposed to change the declared security properties of Solution #4.3 in TR 33.846

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

**S3-213858 Update to solution #4.7**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

**Abstract:**

It is proposed to change the declared security properties of Solution #4.7 in TR 33.846

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

**S3-213893 Editors note removal for solution#4.3**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-213894 Conclusion to Key Issue #4.1**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-213951 Conclusion on key issue 4.1**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: ZTE Corporation*

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

**S3-214015 Conclusion on Key Issue #4.1**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: Huawei, HiSilicon*

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

**S3-214129 Proposed conclusion for key issue #4.1**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: Qualcomm Incorporated*

(Replaces S3-212843)

**Decision:** The document was **revised to S3-214355**.

**S3-214312 Conclusion for KI#4.1**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: THALES, IDEMIA*

**Abstract:**

Conclusion for KI#4.1

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

**S3-214247 Authentication enhancements: Discussion about the WID**

*Type: discussion For: Information  
 Source: Ericsson*

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

**S3-214319 Presentation of Report to TSG: TR 33.846, Version 0.14.0**

*Type: TS or TR cover For: Approval  
 33.846 v0.13.0  
 Source: Ericsson España S.A.*

**Decision:** The document was **revised to S3-214352**.

**S3-213860 Conclusions on key issues #2.1, #2.2, #3.2 and #4.1 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

**Abstract:**

Solution #2.12 (Adding randomness on both sides to mitigate all replay-attacks and assuring SUCI generation by a legitimate entity using MAC calculation on the secret key) is proposed to be chosen as the basis for normative work.

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

**S3-213861 Some problems concerning combination of solutions for key issues in TR 33.846**

*Type: discussion For: Decision  
 33.846 v..  
 Source: JSRPC Kryptonite*

**Abstract:**

Observations on combinations of different solutions for key issues

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

**S3-214352 Presentation of Report to TSG: TR 33.846, Version 0.14.0**

*Type: TS or TR cover For: Approval  
 33.846 v0.14.0  
 Source: Ericsson España S.A.*

(Replaces S3-214319)

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

**S3-214355 Proposed conclusion for key issue #4.1**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: Qualcomm Incorporated, Thales*

(Replaces S3-214129)

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

**S3-214358 Update to solution #2.3**

*Type: pCR For: Approval  
 33.846 v0.13.0  
 Source: JSRPC Kryptonite*

(Replaces S3-213853)

**Abstract:**

It is proposed to remove Solution #2.3 from TR 33.846

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

**S3-214402 Draft TR 33.846 v0.14.0 Study on authentication enhancements in the 5G System (5GS)**

*Type: draft TR For: Approval  
 33.846 v0.14.0  
 Source: Ericsson España S.A.*

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

### 5.5 Study on security aspects of Unmanned Aerial Systems

**S3-214123 Adding some abbreviations to TR 33.854**

*Type: CR For: Agreement  
 33.854 v17.0.0 CR-0001 Cat: D (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-214343**.

**S3-214124 Corrections to TS 33.854**

*Type: CR For: Agreement  
 33.854 v17.0.0 CR-0002 Cat: D (Rel-17)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-214344**.

**S3-214343 Adding some abbreviations to TR 33.854**

*Type: CR For: Agreement  
 33.854 v17.0.0 CR-0001 rev 1 Cat: D (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-214123)

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

**S3-214344 Corrections to TS 33.854**

*Type: CR For: Agreement  
 33.854 v17.0.0 CR-0002 rev 1 Cat: D (Rel-17)  
  
 Source: Qualcomm Incorporated*

(Replaces S3-214124)

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

### 5.6 Study on Security Aspects of Enhancement of Support for Edge Computing in 5GC

**S3-213952 Conclusion on key issue 1**

*Type: pCR For: Approval  
 33.839 v0.8.0  
 Source: ZTE Corporation*

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

**S3-214064 Conclusion on Key issue #1**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214385**.

**S3-213982 MEC- New solution on EEC authentication based on GBA**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Apple*

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

**S3-214128 Proposed conclusions for key issue #1 and key issue #2**

*Type: pCR For: Approval  
 33.839 v0.8.0  
 Source: Qualcomm Incorporated*

(Replaces S3-213522)

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

**S3-214221 [EDGE] Discussion paper on need for EEC authentication**

*Type: discussion For: Endorsement  
 Source: Samsung*

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

**S3-214222 [EDGE] Discussion on EDGE wayforward**

*Type: discussion For: Endorsement  
 Source: Samsung*

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

**S3-214270 Updates to KI#1 and KI#2**

*Type: pCR For: Approval  
 33.839 v0.8.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214347**.

**S3-214273 Updates to conclusion of KI#1**

*Type: pCR For: Approval  
 33.839 v0.8.0  
 Source: Ericsson*

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

**S3-214317 Conclusion for KI#1**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: THALES*

**Abstract:**

Conclusion for KI#1

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

**S3-213953 Conclusion on key issue 2**

*Type: pCR For: Approval  
 33.839 v0.8.0  
 Source: ZTE Corporation*

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

**S3-213983 MEC- Discussion paper on the privacy issue EEC ID**

*Type: pCR For: (not specified)  
 33.839 v0.7.0  
 Source: Apple*

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

**S3-213984 MEC- New solution on EEC ID privacy protection**

*Type: pCR For: (not specified)  
 33.839 v0.7.0  
 Source: Apple*

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

**S3-214065 Conclusion on Key issue #2**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214386**.

**S3-214274 Updates to conclusion of KI#2**

*Type: pCR For: Approval  
 33.839 v0.8.0  
 Source: Ericsson*

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

**S3-214318 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: THALES*

**Abstract:**

Conclusion for KI#2

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

**S3-214066 Clarification on the SA2 and SA6 issues**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon*

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

**S3-214347 Updates to KI#1 and KI#2**

*Type: pCR For: Approval  
 33.839 v0.8.0  
 Source: Ericsson*

(Replaces S3-214270)

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

**S3-214372 Presentation of Report to TSG: TR 33.839, Version 0.9.0 (For approval)**

*Type: TS or TR cover For: Approval  
 33.839 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-214385 Conclusion on Key issue #1**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon, ZTE*

(Replaces S3-214064)

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

**S3-214386 Conclusion on Key issue #2**

*Type: pCR For: Approval  
 33.839 v0.7.0  
 Source: Huawei, Hisilicon, ZTE*

(Replaces S3-214065)

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

**S3-214413 Draft TR 33.839**

*Type: draft TR For: (not specified)  
 33.839 v0.9.0  
 Source: HuaWei Technologies Co., Ltd*

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

### 5.7 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS

**S3-213826 LS on UE ID in adaptation layer**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2109227*

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

**S3-213972 Reply LS on Layer-3 UE-to-Network Relay authentication and authorization**

*Type: LS out For: Approval  
 to SA WG2  
 Source: LG Electronics*

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

**S3-214142 Discussion on SA2 Reply LS on Layer-3 UE-to-Network Relay authentication and authorization**

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

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

**S3-214005 Update to solution #38**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Huawei,HiSilicon*

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

**S3-214040 P-TID Privacy protection in solution 39**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Huawei,HiSilicon*

**Decision:** The document was **revised to S3-214375**.

**S3-214041 resolving the EN on Kausf desych and key lifetime**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Huawei,HiSilicon*

**Decision:** The document was **revised to S3-214376**.

**S3-214143 Removing Editor’s Notes in solution #42**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Qualcomm Incorporated*

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

**S3-214170 ProSe: Update to Solution #40**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-214395**.

**S3-214171 ProSe: Evaluation Update for Solution #41**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Xiaomi Technology*

**Decision:** The document was **revised to S3-214396**.

**S3-214211 ProSe: New solution PC5 anchor key generation via GBA Push**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214363**.

**S3-214219 ProSe: Resolve EN in solution#1**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Samsung*

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

**S3-214278 A new solution to address KI#17**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Huawei, HiSilicon,Xiaomi*

(Replaces S3-214029)

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

**S3-214297 Update Solution 37: Modification to ensure source authenticity in restricted discovery for relay and group discovery**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-214348**.

**S3-214298 Updates Solution #42**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-214346**.

**S3-214299 Updates Solution #43**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Philips International B.V.*

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

**S3-214321 Update to solution #32 to address privacy issues with User Info ID (KI#5)**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-214354**.

**S3-213911 TR 33.847 Conclusion for NSSAA support with L3 U2N**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: InterDigital, Europe, Ltd., LG Electronics*

**Abstract:**

This contribution proposes conclusion text for NSSAA in TR 33.847

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

**S3-213970 TR 33.847 Conclusion for Secondary Authentication support with L3 U2N**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: LG Electronics, InterDigital*

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

**S3-214004 Update the conclusion to KI#12**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Huawei,HiSilicon*

**Decision:** The document was **revised to S3-214374**.

**S3-214030 Conclusion to KI#17**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Huawei, HiSilicon*

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

**S3-214104 pCR to TR33.847- Update conclusions of KI#13**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: CATT, Xiaomi, ZTE*

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

**S3-214141 Additional conclusion of KI #17 – UP security policy**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Qualcomm Incorporated, CATT*

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

**S3-214144 Update of conclusion for KI#5**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Qualcomm Incorporated*

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

**S3-214145 Update of conclusion for Key Issue #13**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Qualcomm Incorporated*

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

**S3-214146 Conclusion of privacy protection of PDU session-related parameters for relaying**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Qualcomm Incorporated*

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

**S3-214172 ProSe: Conclusion Update for Key Issue #3**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Xiaomi Technology*

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

**S3-214173 ProSe: Conclusion for Key Issue #13**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Xiaomi Technology*

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

**S3-214174 ProSe: Conclusion for Key Issue #17**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Xiaomi Technology*

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

**S3-214212 Conclusion for user plane solutions for KI#3, KI#4, KI#9**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Ericsson*

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

**S3-214213 Conclusion for control plane solutions for KI#3, KI#4, KI#9**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214345**.

**S3-214300 Conclusions KI#1**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Philips International B.V.*

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

**S3-214313 Add Conclusion to Key Issue #12 about unicast communication and key refresh**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: KPN N.V;.Huawei; HiSilicon*

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

**S3-214322 Update to conclusion KI#5**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Philips International B.V.*

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

**S3-214323 Conclusion for KI#16**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Philips International B.V.*

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

**S3-214029 A new solution to address KI#17**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214278**.

**S3-214345 Conclusion for control plane solutions for KI#3, KI#4, KI#9**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Ericsson*

(Replaces S3-214213)

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

**S3-214346 Updates Solution #42**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Philips International B.V.*

(Replaces S3-214298)

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

**S3-214348 Update Solution 37: Modification to ensure source authenticity in restricted discovery for relay and group discovery**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Philips International B.V.*

(Replaces S3-214297)

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

**S3-214354 Update to solution #32 to address privacy issues with User Info ID (KI#5)**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Philips International B.V.*

(Replaces S3-214321)

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

**S3-214363 ProSe: New solution PC5 anchor key generation via GBA Push**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Ericsson*

(Replaces S3-214211)

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

**S3-214374 Update the conclusion to KI#12**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214004)

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

**S3-214375 P-TID Privacy protection in solution 39**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214040)

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

**S3-214376 resolving the EN on Kausf desych and key lifetime**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214041)

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

**S3-214395 ProSe: Update to Solution #40**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Xiaomi Technology*

(Replaces S3-214170)

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

**S3-214396 ProSe: Evaluation Update for Solution #41**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Xiaomi Technology*

(Replaces S3-214171)

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

**S3-214404 TR 33.847 v0.9.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS**

*Type: draft TR For: Approval  
 33.847 v0.9.0  
 Source: CATT*

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

**S3-214409 Presentation of Report TR 33.847-090 FS 5G ProSe Security**

*Type: TS or TR cover For: Approval  
 33.847 v0.8.0  
 Source: CATT*

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

**S3-214448 Update of conclusion for Key Issue #13**

*Type: pCR For: Approval  
 33.847 v0.8.0  
 Source: Qualcomm Incorporated*

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

### 5.8 Study on security for enhanced support of Industrial IoT

**S3-214199 Cover sheet - FS IIOT - Presentation and Approval of Report TR 33.851**

*Type: TS or TR cover For: Approval  
 33.851 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

### 5.9 Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services

**S3-214013 editorial changes to TR 33.850**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: Huawei, HiSilicon*

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

**S3-213954 Conclusion for key issue 1**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: ZTE Corporation*

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

**S3-213956 Update the solution #6**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: ZTE Corporation*

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

**S3-214149 Conclusion of KI #1 and KI #2**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-214407**.

**S3-213955 Conclusion for key issue 2**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: ZTE Corporation*

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

**S3-214012 Update to conclusion on key issue#2**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214377**.

**S3-214011 Discussion paper on key distribution in interworking between LTE and 5G**

*Type: discussion For: Endorsement  
 33.850 v..  
 Source: Huawei, HiSilicon*

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

**S3-214020 Update to conclusion on key issue#3**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214378**.

**S3-214281 Conclusions KI#3**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: Philips International B.V.*

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

**S3-214320 Update Solution#9**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-214412**.

**S3-214356 Presentation of Report to TSG: TR 33.850, Version 0.9.0**

*Type: TS or TR cover For: (not specified)  
 33.850 v0.9.0  
 Source: Huawei, HiSilicon*

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

**S3-214368 TR 33.850 for MBS security**

*Type: draft TR For: (not specified)  
 33.850 v0.9.0  
 Source: Huawei, Hisilicon*

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

**S3-214377 Update to conclusion on key issue#2**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214012)

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

**S3-214378 Update to conclusion on key issue#3**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214020)

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

**S3-214407 Conclusion of KI #1 and KI #2**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: Qualcomm Incorporated*

(Replaces S3-214149)

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

**S3-214412 Update Solution#9**

*Type: pCR For: Approval  
 33.850 v0.8.0  
 Source: Philips International B.V.*

(Replaces S3-214320)

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

### 5.10 Study on enhanced security support for Non-Public Networks

**S3-213993 Conclusion for Key Issue #1**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214380**.

**S3-214159 eNPN: Evaluation of Solution #5**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Qualcomm Incorporated*

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

**S3-214160 pCR: Additional conclusions for KI #1**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Qualcomm Incorporated*

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

**S3-213957 Resolving ENs in Key Issue #2**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: ZTE Corporation*

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

**S3-213958 Evaluation of Solution #20**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: ZTE Corporation*

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

**S3-213959 Evaluation of Solution #21**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: ZTE Corporation*

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

**S3-213960 Conclusion on Key Issue #2**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: ZTE Corporation*

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

**S3-214106 Conclusion for key issue #2 on PNI-NPN**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: China Mobile, Ericsson*

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

**S3-214107 Add evaluation and system impact to solution#17**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: China Mobile*

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

**S3-214175 eNPN: Conclusion for Key Issue #2**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Xiaomi Technology*

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

**S3-214283 Empty conclusion to KI#2 Provisioning of Credentials**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Ericsson*

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

**S3-214310 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: ORANGE, Deutsche Telekom, Thales, IDEMIA, Giesecke+Devrient*

**Abstract:**

Conclusion for KI#2

**Decision:** The document was **revised to S3-214359**.

**S3-214164 Solution for provisioning PNI-NPN Credential**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR provides a solution to Key Issue #2 in TR 33.857 addressing PNI-NPN credential provisioning aspects.

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

**S3-214025 Solution KI#2 using AKMA**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Ericsson*

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

**S3-214284 Empty conclusion to KI#3 Security impacts from supporting IMS voice and IMS services in SNPNs**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214351**.

**S3-213963 Further conclusion for KI#4 (initial access)**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: CableLabs*

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

**S3-213969 Conclusions for KI#4 (initial access)**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Intel Sweden AB,Interdigital, Apple, Philips, Convida, Broadcom, Cablelabs, Lenovo, Motorola Mobility*

**Decision:** The document was **revised to S3-214335**.

**S3-213973 New solution for UE onboarding**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: LG Electronics*

**Decision:** The document was **revised to S3-214341**.

**S3-213974 Further conclusion for KI#4**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: LG Electronics*

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

**S3-214163 Update to Solution#23**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This contribution proposes to update Solution#23 in TR 33.857.

**Decision:** The document was **revised to S3-214338**.

**S3-214282 Scope of TR 33.857**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Ericsson*

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

**S3-214285 Presentation of Report to TSG: TR 33.857, Version 0.9.0**

*Type: TS or TR cover For: Approval  
 33.857 v..  
 Source: Ericsson*

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

**S3-214286 Clean-up of TR 33.857**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Ericsson*

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

**S3-214335 Conclusions for KI#4 (initial access)**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Intel Sweden AB,Interdigital, Apple, Philips, Convida, Broadcom, Cablelabs, Lenovo, Motorola Mobility, Qualcomm*

(Replaces S3-213969)

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

**S3-214338 Update to Solution#23**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-214163)

**Abstract:**

This contribution proposes to update Solution#23 in TR 33.857.

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

**S3-214341 New solution for UE onboarding**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: LG Electronics*

(Replaces S3-213973)

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

**S3-214351 Empty conclusion to KI#3 Security impacts from supporting IMS voice and IMS services in SNPNs**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Ericsson*

(Replaces S3-214284)

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

**S3-214359 Conclusion for KI#2**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Thales, ORANGE, Deutsche Telekom, Telecom Italia, IDEMIA, Giesecke+Devrient*

(Replaces S3-214310)

**Abstract:**

Conclusion for KI#2

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

**S3-214362 draft TR 33.857 v0.9.0**

*Type: draft TR For: Approval  
 33.857 v0.8.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214540**.

**S3-214540 draft TR 33.857 v0.9.0**

*Type: draft TR For: Approval  
 33.857 v0.9.0  
 Source: Ericsson*

(Replaces S3-214362)

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

**S3-214380 Conclusion on KI#1 for key derivation**

*Type: pCR For: Approval  
 33.857 v0.8.0  
 Source: Huawei, HiSilicon*

(Replaces S3-213993)

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

**S3-214334 LS on conclusions of authentication methods for initial access for onboarding**

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

**Decision:** The document was **revised to S3-214541**.

**S3-214541 LS on conclusions of authentication methods for initial access for onboarding**

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

(Replaces S3-214334)

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

### 5.11 Study on User Consent for 3GPP services

**S3-213849 Test**

*Type: CR For: Approval  
 33.861 v16.1.0 CR-0004 Cat: C (Rel-17)  
  
 Source: Test*

**Abstract:**

ffffffff

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

**S3-213998 New solution for naming of purposes**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-213999 Address EN and add evaluation for solution 3**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-214000 Address EN and add evaluation for solution 4**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214381**.

**S3-214001 Conclusion on key issue #3**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214382**.

**S3-214002 Conclusion on UDM Service for User Consent Check**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214383**.

**S3-214003 Conclusion on User Consent Check**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214384**.

**S3-214225 [UC3S] Adding evaluation of solution #7**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-214400**.

**S3-214226 [UC3S] Resolving Editor’s Note of solution #7**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Samsung*

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

**S3-214227 [UC3S] Conclusion for Edge User Consent**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-214401**.

**S3-214357 Presentation of Report to TSG: TR 33.867, Version 0.8.0**

*Type: TS or TR cover For: (not specified)  
 33.867 v0.8.0  
 Source: Huawei, HiSilicon*

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

**S3-214364 Draft TR33.867**

*Type: draft TR For: (not specified)  
 33.867 v0.8.0  
 Source: Huawei, HiSilicon*

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

**S3-214381 Address EN and add evaluation for solution 4**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214000)

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

**S3-214382 Conclusion on key issue #3**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214001)

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

**S3-214383 Conclusion on UDM Service for User Consent Check**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-214002)

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

**S3-214384 Conclusion on User Consent Check**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214003)

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

**S3-214400 [UC3S] Adding evaluation of solution #7**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Samsung*

(Replaces S3-214225)

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

**S3-214401 [UC3S] Conclusion for Edge User Consent**

*Type: pCR For: Approval  
 33.867 v0.7.0  
 Source: Samsung*

(Replaces S3-214227)

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

### 5.12 Study on security aspects of the 5GMSG Service

**S3-214370 Presentation of Report to TSG: TR 33.862, Version 0.7.0**

*Type: TS or TR cover For: Approval  
 33.862 v0.7.0  
 Source: China Mobile*

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

### 5.13 Study on security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) Phase 2

**S3-214095 Add conclusion to KI #2.1**

*Type: pCR For: Approval  
 33.866 v0.7.0  
 Source: China Mobile*

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

**S3-214266 Inputs to DDoS analysis framework to detect signalling storm**

*Type: pCR For: Approval  
 33.866 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214267 Ed Note Removal for KI 1.4 Conclusion**

*Type: pCR For: Approval  
 33.866 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214268 Ed Note Removal for Solution 11**

*Type: pCR For: Approval  
 33.866 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214410 draft TR 33.866 0.8.0**

*Type: draft TR For: Approval  
 33.866 v0.8.0  
 Source: China Mobile E-Commerce Co.*

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

**S3-214411 Presentation of Report to TSG: TR 33.866, Version 0.8.0**

*Type: TS or TR cover For: Approval  
 33.866 v0.8.0  
 Source: China Mobile E-Commerce Co.*

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

### 5.14 Study on the security of AMF re-allocation

**S3-213832 LS Response on Clarifications of Network slice selection during AMF Reallocation**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2106686*

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

**S3-213869 LS Response on full registration request message to be rerouted via RAN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2107860*

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

**S3-213961 Update the solution #11**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: ZTE Corporation*

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

**S3-214119 Update to Solution #4**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR updates Solution #4 in TR 33.864.

**Decision:** The document was **revised to S3-214339**.

**S3-214120 Update to Solution #12**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR updates Solution #12 in TR 33.864.

**Decision:** The document was **revised to S3-214340**.

**S3-213962 Conclusion for the key issue 1**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: ZTE Corporation*

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

**S3-214117 Conclusion to KI#1**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: Lenovo, Motorola Mobility, Deutsche Telekom, Interdigital, Broadcom, Intel*

**Abstract:**

This pCR provides a conclusion to Key Issue #1 in TR 33.864.

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

**S3-214137 Proposed conclusion for AMF Re-allocation**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: Qualcomm Incorporated*

(Replaces S3-212850)

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

**S3-214241 [AMF re-alloc] Conclution to KI #1**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: Samsung*

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

**S3-214245 Conclusion for the study**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-214350**.

**S3-214243 AMF re-allocation: Discussion about the WID**

*Type: discussion For: Information  
 33.864 v..  
 Source: Ericsson*

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

**S3-214242 Re-route 5G NAS security context via RAN**

*Type: other For: Agreement  
 33.501 v..  
 Source: Samsung*

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

**S3-214246 Security handing of AMF re-allocation via RAN**

*Type: draftCR For: Discussion  
 33.501 v17.3.0  
 Source: Ericsson*

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

**S3-214339 Update to Solution #4**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-214119)

**Abstract:**

This pCR updates Solution #4 in TR 33.864.

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

**S3-214340 Update to Solution #12**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-214120)

**Abstract:**

This pCR updates Solution #12 in TR 33.864.

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

**S3-214350 Conclusion for the study**

*Type: pCR For: Approval  
 33.864 v0.6.0  
 Source: Ericsson*

(Replaces S3-214245)

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

**S3-214353 Presentation of Report to TSG: TR 33.864, Version 0.7.0**

*Type: TS or TR cover For: Approval  
 33.864 v0.7.0  
 Source: Ericsson España S.A.*

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

**S3-214403 Draft TR 33.864 v0.7.0 Study on the security of Access and Mobility Management Function (AMF) re-allocation**

*Type: draft TR For: Approval  
 33.864 v0.7.0  
 Source: Ericsson España S.A.*

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

### 5.16 Study on Security for NR Integrated Access and Backhaul

### 5.17 Study on enhanced Security Aspects of the 5G Service Based Architecture

**S3-214049 Resolving EN on the subscribe-notify issue**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

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

**S3-214050 Adding the evaluation for solution #9**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214387**.

**S3-214051 Adding the conclusion for key issue #7**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-214052 Adding the conclusion for key issue #5**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-214388**.

**S3-214183 eSBA Editorial updates to 33875-040**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214184 eSBA KI#5 EN resolution**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214365**.

**S3-214185 eSBA KI#4 conclusion**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214366**.

**S3-214186 eSBA KI#9 Threats**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214198 Cover sheet - FS eSBA - Presentation of Report TR 33.875**

*Type: TS or TR cover For: Approval  
 33.875 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214367**.

**S3-214223 [eSBA] KI on inter slice access**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-214397**.

**S3-214224 Solution to KI#9: Authorization for Inter-Slice Access**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-214398**.

**S3-214239 [eSBA] New Solution for Key Issue #3: Authorization of notification endpoint**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Samsung, Huawei, Hisilicon, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-214399**.

**S3-214240 [eSBA] Conclusion for KI#1**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Samsung, Huawei, HisiliconNokia, Nokia Shanghai Bell*

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

**S3-214294 Solution for Key issue #7: Authorization mechanism determination**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Ericsson*

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

**S3-214311 New KI for Authentication of PLMNs over Roaming Hub**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: CableLabs*

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

**S3-214314 New KI on Authorization of Roaming Hub by PLMN**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: CableLabs*

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

**S3-214365 eSBA KI#5 EN resolution**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214184)

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

**S3-214366 eSBA KI#4 conclusion**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214185)

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

**S3-214367 Presentation of Report TR 33.875-050 FS eSBA Security**

*Type: TS or TR cover For: Approval  
 33.875 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-214198)

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

**S3-214369 TR 33.875-050 eSBA Security**

*Type: draft TR For: (not specified)  
 33.875 v0.5.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214387 Adding the evaluation for solution #9**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214050)

**Decision:** The document was **revised to S3-214389**.

**S3-214388 Adding the conclusion for key issue #5**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-214052)

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

**S3-214389 Adding the evaluation for solution #9**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Huawei, HiSilicon, China Mobile*

(Replaces S3-214387)

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

**S3-214397 [eSBA] KI on inter slice access**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Samsung*

(Replaces S3-214223)

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

**S3-214398 Solution to KI#9: Authorization for Inter-Slice Access**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Samsung*

(Replaces S3-214224)

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

**S3-214399 [eSBA] New Solution for Key Issue #3: Authorization of notification endpoint**

*Type: pCR For: Approval  
 33.875 v0.4.0  
 Source: Samsung, Huawei, Hisilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-214239)

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

### 5.18 Study on enhanced security for network slicing Phase 2

**S3-213916 update to KI#1 based on RAN progress**

*Type: pCR For: Approval  
 33.874 v0.4.0  
 Source: Huawei, Hisilicon*

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

**S3-213870 Reply LS on NSAC procedure**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2107942*

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

**S3-213917 update to KI#2 based on SA2 LS**

*Type: pCR For: Approval  
 33.874 v0.4.0  
 Source: Huawei, Hisilicon*

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

**S3-214176 eNS2: Key Issue #2 update**

*Type: pCR For: Approval  
 33.874 v0.4.0  
 Source: Xiaomi Communication*

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

**S3-213918 update to Sol#1**

*Type: pCR For: Approval  
 33.874 v0.4.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214361**.

**S3-213919 conclusion to KI# 3**

*Type: pCR For: Approval  
 33.874 v0.4.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-214371**.

**S3-214361 update to Sol#1**

*Type: pCR For: Approval  
 33.874 v0.4.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213918)

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

**S3-214371 conclusion to KI# 3**

*Type: pCR For: Approval  
 33.874 v0.4.0  
 Source: Huawei, Hisilicon*

(Replaces S3-213919)

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

**S3-214373 draft\_TR33.874-050**

*Type: draft TR For: (not specified)  
 33.874 v0.5.0  
 Source: Huawei, HiSilicon*

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

### 5.19 Study on non-seamless WLAN Offload in 5GS using 3GPP credentials

**S3-213868 Reply LS on proposed NSWO architecture**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2107859*

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

**S3-213889 Coversheet for TR 33.881**

*Type: TS or TR cover For: Approval  
 33.881 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Coversheet for NSWO TR 33.881

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

**S3-213891 Discussion on SA2 LS reply on proposed NSWO architecture**

*Type: discussion For: Discussion  
 33.881 v..  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-214263 NSWO Solution 1 evaluation**

*Type: pCR For: (not specified)  
 33.881 v0.3.0  
 Source: Ericsson*

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

**S3-214405 draft TR 33.881**

*Type: draft TR For: Approval  
 33.881 v0.4.0  
 Source: Nokia Hungary*

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

## 6 CVD and research

**S3-213816 Attack preventing NAS procedures to succeed**

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

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

**S3-213812 [FSAG#94 Doc 003] Reply LS on attack preventing NAS procedures to succeed**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-215153*

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

**S3-213815 Stealth Pirating Attack by RACH Rebroadcast Overwriting (SPARROW)**

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

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

**S3-213901 SPARROW Covert Communication Vulnerability in CRI Rebroadcast: Analysis & Remediation Proposal**

*Type: discussion For: Action  
 36.321 v..  
 Source: KEYSIGHT TECHNOLOGIES*

**Abstract:**

This is the full publication regarding GSMA CVD-2021-0045 (LS in S3-213815). It will illustrate the impact and remediation proposals to prevent SPARROW covert communication by exploiting CRI rebroadcast in RACH procedure with contention.

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

**S3-213902 Padding SUPIs in NAI format with Random Length of Characters for non-null schemes**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1204 Cat: C (Rel-17)  
  
 Source: InterDigital Communications*

**Abstract:**

It is proposed that UE pads the username with a random length padding. The length of the random padding depends on the length of the original username length to maximize the k-anonymity value and minimize the complexity of the deployed solution.

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

**S3-214302 Concealing the length of NAI format SUPI exposed in SUCI by padding the SUPI before using non-null schemes**

*Type: CR For: Agreement  
 33.501 v17.3.0 CR-1198 rev 1 Cat: C (Rel-17)  
  
 Source: Ericsson*

(Replaces S3-213003)

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

**S3-214332 Countermeasures against a threat of a service disruption due to unprotected RRC messages proposed by 5G Security Forum in South Korea**

*Type: discussion For: (not specified)  
 Source: SK Telecom*

(Replaces S3-213988)

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

**S3-213835 Attack preventing NAS procedures to succeed**

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

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

**S3-213988 Countermeasures against a threat of a service disruption due to unprotected RRC messages proposed by 5G Security Forum in South Korea**

*Type: discussion For: (not specified)  
 Source: SK Telecom*

**Abstract:**

This is a follow-up of a threat reported in SA3#101-e and shares countermeasures for SA3’s information.

**Decision:** The document was **revised to S3-214332**.

**S3-214414 Reply to: Attack preventing NAS procedures to succeed**

*Type: LS out For: (not specified)  
 to GSMA, cc CT1  
 Source: Huawei Technologies Sweden AB*

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

**S3-214415 Attack preventing NAS procedures to succeed**

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

**Decision:** The document was **replied to in S3-214414**.

## 7 Any Other Business

Minpeng (CMCC) and Rajvel (Samsung) were re-elected as vice chairs by acclamation, given that they were the only candidates for the positions. Both were congratulated by the Chair and the group, and they also were praised for their hard work during the difficult times of the first term.

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-213800 | Agenda | SA WG3 Chair | approved |  |  |
| S3-213801 | Report from SA3#104e | MCC | approved |  |  |
| S3-213802 | Report from SA3#104e-Adhoc | MCC | approved |  |  |
| S3-213803 | Process for SA3#105e meeting | SA WG3 Chair | noted |  |  |
| S3-213804 | Report from last SA | SA WG3 Chair | noted |  |  |
| S3-213805 | Meeting notes from SA3 leadership | SA WG3 Chair | noted |  |  |
| S3-213806 | LS to 3GPP SA3 working group on 5GS Roaming Hubbing | 5GJA | replied to |  |  |
| S3-213807 | Reply LS on UE capabilities indication in UPU | C1-212599 | noted |  |  |
| S3-213808 | Reply LS on UE capabilities indication in UPU | S2-2106703 | postponed |  |  |
| S3-213809 | LS on new parameters for SOR | C1-214118 | postponed |  |  |
| S3-213810 | Reply LS on NAS-based busy indication | C1-214917 | noted |  |  |
| S3-213811 | LS on user plane integrity protection for UE not supporting NR as primary RAT and supporting E-UTRA | C1-214952 | noted |  |  |
| S3-213812 | [FSAG#94 Doc 003] Reply LS on attack preventing NAS procedures to succeed | C1-215153 | noted |  |  |
| S3-213813 | Reply LS on Header Enrichment for HTTPS in PFCP | C4-214531 | replied to |  |  |
| S3-213814 | LS on Using N32 for interconnect scenarios | C4-214533 | replied to |  | - |
| S3-213815 | Stealth Pirating Attack by RACH Rebroadcast Overwriting (SPARROW) | GSMA FSAG | noted |  |  |
| S3-213816 | Attack preventing NAS procedures to succeed | GSMA FSAG | withdrawn |  |  |
| S3-213817 | Support of UAVs authentication/authorization in 3GPP systems and interfacing with USS/UTM | GSMA | noted |  |  |
| S3-213818 | LS on broadcast of NTN GW or gNB position | R1-2106332 | replied to |  |  |
| S3-213819 | Reply LS on broadcast of NTN GW or gNB position | S1-213211 | noted |  |  |
| S3-213820 | New LS on UE location aspects in NTN | R2-2106543 | replied to |  |  |
| S3-213821 | Reply LS on UE location aspects in NTN | R2-2109216 | noted |  |  |
| S3-213822 | Reply LS on UE location aspects in NTN | R2-2109217 | replied to |  |  |
| S3-213823 | LS on NTN specific user consent | R2-2109199 | replied to |  |  |
| S3-213824 | Reply LS on NAS-based busy indication | R2-2108855 | noted |  |  |
| S3-213825 | LS Reply to SA3 on security protection on RRCResumeRequest message | R2-2109121 | replied to |  |  |
| S3-213826 | LS on UE ID in adaptation layer | R2-2109227 | noted |  |  |
| S3-213827 | LS on UP security policy updated by intra-cell handover | R3-214464 | noted |  |  |
| S3-213828 | LS to SA3 on support of Pre-shared key derivation for IAB-donor-CU-UP | R3-214465 | replied to |  |  |
| S3-213829 | LS on UE capabilities indication in UPU | S2-2101072 | replied to |  |  |
| S3-213830 | LS on 5G capabilities exposure for factories of the future | S2-2106683 | noted |  |  |
| S3-213831 | Reply LS to 5G-ACIA on 5G capabilities exposure for factories of the future | SP-211134 | noted |  |  |
| S3-213832 | LS Response on Clarifications of Network slice selection during AMF Reallocation | S2-2106686 | noted |  |  |
| S3-213833 | Reply LS on updating the Credentials Holder controlled lists for SNPN selection | S2-2106705 | postponed |  |  |
| S3-213834 | Reply to LS on Resynchronisations | ETSI SAGE | postponed |  |  |
| S3-213835 | Attack preventing NAS procedures to succeed | GSMA | withdrawn |  |  |
| S3-213836 | Reply LS on Security risk evaluation of using long term key for another key derivation than AKA | ETSI SAGE | noted |  |  |
| S3-213837 | LS Reply on QoE report handling at QoE pause | S4-211290 | noted |  |  |
| S3-213838 | LS on progress of study items for security on management aspect | S5-214467 | noted |  |  |
| S3-213839 | Reply LS on QoE report handling at QoE pause | S5-214519 | noted |  |  |
| S3-213840 | LS on new SID on Application Enablement for Data Integrity Verification Service in IOT | S6-211496 | replied to |  |  |
| S3-213841 | Reply LS on RAT type for network monitoring | S6-212146 | noted |  |  |
| S3-213842 | LS re Penetration Testing of SCAS | GSMA SECAG | noted |  |  |
| S3-213843 | LS on information about draft Recommendation ITU-T Y.frd: "Framework and Requirements of Network-oriented Data Integrity Verification Service based on Blockchain in Future Network” | ITU-T SG13 | withdrawn |  |  |
| S3-213844 | LS on new liaison officer from ITU-T SG17 | ITU-T SG17 | noted |  |  |
| S3-213845 | Reply LS on Inclusive language review | SP-211140 | noted |  |  |
| S3-213846 | TCG progress - report from TCG rapporteur | InterDigital, Inc. | noted |  |  |
| S3-213847 | Study of privacy of identities over radio access | InterDigital, Inc., Apple, AT&T, CableLabs, Convida Wireless, Futurewei, Intel, Motorola Mobility, Nokia, Nokia Shanghai Bell, Telefonica, Verizon Wireless | revised |  | S3-214296 |
| S3-213848 | Reply LS on EAS and ECS identifiers | S6-212490 | postponed |  |  |
| S3-213849 | Test | Test | withdrawn |  |  |
| S3-213850 | LS-Reply on Home Network triggered re-authentication | C4-215437 | postponed |  |  |
| S3-213851 | Update to solution #2.1 | JSRPC Kryptonite | approved |  |  |
| S3-213852 | Update to solution #2.2 | JSRPC Kryptonite | approved |  |  |
| S3-213853 | Update to solution #2.3 | JSRPC Kryptonite | revised |  | S3-214358 |
| S3-213854 | Update to solution #2.4 | JSRPC Kryptonite | noted |  |  |
| S3-213855 | Update to solution #2.5 | JSRPC Kryptonite | approved |  |  |
| S3-213856 | Update to solution #3.1 | JSRPC Kryptonite | approved |  |  |
| S3-213857 | Update to solution #4.3 | JSRPC Kryptonite | approved |  |  |
| S3-213858 | Update to solution #4.7 | JSRPC Kryptonite | approved |  |  |
| S3-213859 | Update to solution #2.12 | JSRPC Kryptonite | approved |  |  |
| S3-213860 | Conclusions on key issues #2.1, #2.2, #3.2 and #4.1 in TR 33.846 | JSRPC Kryptonite | not treated |  |  |
| S3-213861 | Some problems concerning combination of solutions for key issues in TR 33.846 | JSRPC Kryptonite | not treated |  |  |
| S3-213862 | Baseline of user conent living CR for SA3#105-e | Ericsson | approved |  |  |
| S3-213863 | AMF - Expected result for test case not defined in the specifications | Keysight Technologies UK Ltd | agreed |  |  |
| S3-213864 | AMF - Expected result for test case not defined in the specifications | Keysight Technologies UK Ltd | agreed |  |  |
| S3-213865 | AMF - NAS protection algorithm selection in AMF change | Keysight Technologies UK Ltd | agreed |  |  |
| S3-213866 | AMF - NAS protection algorithm selection in AMF change | Keysight Technologies UK Ltd | agreed |  |  |
| S3-213867 | Reply LS to LS on SBA for GBA | S2-2107793 | noted |  |  |
| S3-213868 | Reply LS on proposed NSWO architecture | S2-2107859 | postponed |  |  |
| S3-213869 | LS Response on full registration request message to be rerouted via RAN | S2-2107860 | noted |  |  |
| S3-213870 | Reply LS on NSAC procedure | S2-2107942 | noted |  |  |
| S3-213871 | Reply LS on Layer-3 UE-to-Network Relay authentication and authorization | S2-2107976 | replied to |  |  |
| S3-213872 | LS on Multicast paging with TMGI | S2-2107995 | postponed |  |  |
| S3-213873 | LS on IMEI for Non-Public Networks/Private Networks without using USIM | S2-2108093 | noted |  |  |
| S3-213874 | LS on MINT functionality for Disaster Roaming | S2-2108172 | replied to |  |  |
| S3-213875 | 33.512 – Alignment with TS 33.501 Rel-17 | Keysight Technologies UK Ltd | revised |  | S3-214417 |
| S3-213876 | Reply LS on user plane integrity protection for UE not supporting NR as primary RAT and supporting E-UTRA | S2-2107794 | noted |  |  |
| S3-213877 | LS to 3GPP SA3 working group on NRF mutual authentication in roaming scenario | GSMA | replied to |  |  |
| S3-213878 | AMF – NAS NULL integrity protection clarifications | Keysight Technologies UK Ltd | agreed |  |  |
| S3-213879 | AMF – precondition bidding down prevention in Xn-handover test | Keysight Technologies UK Ltd | agreed |  |  |
| S3-213880 | AMF – precondition bidding down prevention in Xn-handover test | Keysight Technologies UK Ltd | agreed |  |  |
| S3-213881 | Living document for BEST\_5G: draftCR to TS 33.163 | KPN N.V. | revised |  | S3-214461 |
| S3-213882 | pCR to Living document for BEST\_5G: resolution of Editor’s notes | KPN N.V., Vodafone | revised |  | S3-214419 |
| S3-213883 | SA3 Procedures and deadlines | SA3 Chair | noted |  |  |
| S3-213884 | New solution: Ticket based access control for administrators | MITRE Corporation | revised |  | S3-214390 |
| S3-213885 | LS on question and feedback about the EVEX Work Item | C3-215316 | noted |  |  |
| S3-213886 | CR Updating SIP DIGEST IETF references from RFC 2617 to RFC 7616 | T-Mobile USA | merged |  | S3-214516 |
| S3-213887 | LS on reply to SA6 about new SID on Application Enablement for Data Integrity Verification Service in IOT | Nokia, Nokia Shanghai Bell | revised |  | S3-214337 |
| S3-213888 | New WID on Non-Seamless WLAN offload Authentication in 5GS | Nokia, Nokia Shanghai Bell | revised |  | S3-214433 |
| S3-213889 | Coversheet for TR 33.881 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-213890 | Support for NSWO in 5GS | Nokia, Nokia Shanghai Bell,AT&T,Lenovo,Motorola Mobility,Qualcomm Incorporated | revised |  | S3-214432 |
| S3-213891 | Discussion on SA2 LS reply on proposed NSWO architecture | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-213892 | Editor note removal for solution#2.8 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-213893 | Editors note removal for solution#4.3 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-213894 | Conclusion to Key Issue #4.1 | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-213895 | Security Protection of SQN during AKA re-synchronisations | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-213896 | New solution for Ki#13: Remote Attestation on 3GPP level | Nokia, Nokia Shanghai Bell | revised |  | S3-214393 |
| S3-213897 | New Solution Using Boot Time Attestation for NF Registration | Johns Hopkins University APL, US National Security Agency, CableLabs, InterDigital, AT&T, CISA ECD | revised |  | S3-214391 |
| S3-213898 | Clarification on Kaf lifetime in Clause 5.2 | Futurewei Technologies | agreed |  |  |
| S3-213899 | Kaf refresh when lifetime expires | Futurewei Technologies | not pursued |  |  |
| S3-213900 | AMF skipping UUAA procedure | Futurewei Technologies | approved |  |  |
| S3-213901 | SPARROW Covert Communication Vulnerability in CRI Rebroadcast: Analysis & Remediation Proposal | KEYSIGHT TECHNOLOGIES | noted |  |  |
| S3-213902 | Padding SUPIs in NAI format with Random Length of Characters for non-null schemes | InterDigital Communications | not pursued |  |  |
| S3-213903 | Mission Critical R18 WID | Motorola Solutions Danmark A/S | revised |  | S3-214485 |
| S3-213904 | [33.180] R17 Preconfigured group clarification | Motorola Solutions Danmark A/S | agreed |  |  |
| S3-213905 | [33.180] R15 KMS message signature clarification | Motorola Solutions Danmark A/S | agreed |  |  |
| S3-213906 | [33.180] R16 KMS message signature clarification (mirror) | Motorola Solutions Danmark A/S | agreed |  |  |
| S3-213907 | [33.180] R17 KMS message signature clarification (mirror) | Motorola Solutions Danmark A/S | agreed |  |  |
| S3-213908 | [33.180] R15 MIKEY signature clarification | Motorola Solutions Danmark A/S | agreed |  |  |
| S3-213909 | [33.180] R16 MIKEY signature clarification (mirror) | Motorola Solutions Danmark A/S | agreed |  |  |
| S3-213910 | [33.180] R17 MIKEY signature clarification (mirror) | Motorola Solutions Danmark A/S | agreed |  |  |
| S3-213911 | TR 33.847 Conclusion for NSSAA support with L3 U2N | InterDigital, Europe, Ltd., LG Electronics | noted |  |  |
| S3-213912 | NSSAA for Remote UE with L3 U2N relay without N3IWF | InterDigital, Europe, Ltd., LG Electronics | noted |  |  |
| S3-213913 | Update to solution #25 | Huawei, HiSilicon | noted |  |  |
| S3-213914 | Evaluation of solution #4 | Huawei, HiSilicon | noted |  |  |
| S3-213915 | Conclusion for KI#3 | Huawei, HiSilicon | noted |  |  |
| S3-213916 | update to KI#1 based on RAN progress | Huawei, Hisilicon | approved |  |  |
| S3-213917 | update to KI#2 based on SA2 LS | Huawei, Hisilicon | noted |  |  |
| S3-213918 | update to Sol#1 | Huawei, Hisilicon | revised |  | S3-214361 |
| S3-213919 | conclusion to KI# 3 | Huawei, Hisilicon | revised |  | S3-214371 |
| S3-213920 | WID on enhanced security for Phase 2 network slicing | Huawei, Hisilicon | revised |  | S3-214460 |
| S3-213921 | clarification on optional EAP ID Request in NSSAA Procedure | Huawei, Hisilicon | not pursued |  |  |
| S3-213922 | Serving network ID in NSSAA | Huawei, Hisilicon | not pursued |  |  |
| S3-213923 | UUAA procedure at registration | Huawei, Hisilicon | revised |  | S3-214463 |
| S3-213924 | UUAA procedure at PDU session establishment | Huawei, Hisilicon | revised |  | S3-214465 |
| S3-213925 | Pairing authorizaiton | Huawei, Hisilicon, Lenovo, Motorola Mobility | revised |  | S3-214466 |
| S3-213926 | UUAA re-authentication identification EN | Huawei, Hisilicon | approved |  |  |
| S3-213927 | addressing EN in revocation procedure | Huawei, Hisilicon | merged |  | S3-214453 |
| S3-213928 | Update Nnssaaf\_AIW interface | CableLabs | revised |  | S3-214484 |
| S3-213929 | Verification of NSSAIs for preventing slice attack | CableLabs | not pursued |  |  |
| S3-213930 | Verification of NSSAIs for preventing slice attack | CableLabs | not pursued |  |  |
| S3-213931 | Reply LS on Header Enrichment for HTTPS in PFCP | ZTE Corporation | merged |  | S3-214505 |
| S3-213932 | TS 33.220 Resolution of editor's note on 5G GBA roaming | ZTE Corporation | noted |  |  |
| S3-213933 | TS 33.223 Resolution of editor's note on 5G GBA roaming | ZTE Corporation | noted |  |  |
| S3-213934 | Authenticaton and authorization for MBS service | ZTE Corporation | merged |  | S3-214497 |
| S3-213935 | Security for MBS-eMBMS interworking | ZTE Corporation | noted |  |  |
| S3-213936 | Clean up for clause 6.6.1 | ZTE Corporation | revised |  | S3-214490 |
| S3-213937 | Discussion on refresh of KAF and no Kakma in AAnF | ZTE Corporation | not pursued |  |  |
| S3-213938 | Kaf expiration | ZTE Corporation | not pursued |  |  |
| S3-213939 | Kaf is invalid in AF | ZTE Corporation | not pursued |  |  |
| S3-213940 | No AKMA security context in AAnF | ZTE Corporation | not pursued |  |  |
| S3-213941 | Sending UE ID to the AKMA AF | ZTE Corporation | agreed |  |  |
| S3-213942 | UE stores AKMA subscription data | ZTE Corporation | not pursued |  |  |
| S3-213943 | Authentication based on AKMA between EEC and ECS in clause 6.2 | ZTE Corporation | noted |  |  |
| S3-213944 | Authentication based on AKMA between EEC and EES in clause 6.3 | ZTE Corporation | noted |  |  |
| S3-213945 | Delete the GBA\_Digest in annex B.1.2.2 | ZTE Corporation | revised |  | S3-214491 |
| S3-213946 | Network domain security | ZTE Corporation | merged |  | S3-214472 |
| S3-213947 | Security of Npc2 interface | ZTE Corporation | merged |  | S3-214472 |
| S3-213948 | Security of UE 5G DDNMF interface | ZTE Corporation | merged |  | S3-214472 |
| S3-213949 | Security requirements for 5G ProSe Direct Discovery | ZTE Corporation | merged |  | S3-214444 |
| S3-213950 | Security procedures for 5G ProSe Direct Discovery | ZTE Corporation | noted |  |  |
| S3-213951 | Conclusion on key issue 4.1 | ZTE Corporation | noted |  |  |
| S3-213952 | Conclusion on key issue 1 | ZTE Corporation | merged |  | S3-214385 |
| S3-213953 | Conclusion on key issue 2 | ZTE Corporation | merged |  | S3-214386 |
| S3-213954 | Conclusion for key issue 1 | ZTE Corporation | merged |  | S3-214407 |
| S3-213955 | Conclusion for key issue 2 | ZTE Corporation | merged |  | S3-214407 |
| S3-213956 | Update the solution #6 | ZTE Corporation | approved |  |  |
| S3-213957 | Resolving ENs in Key Issue #2 | ZTE Corporation | noted |  |  |
| S3-213958 | Evaluation of Solution #20 | ZTE Corporation | noted |  |  |
| S3-213959 | Evaluation of Solution #21 | ZTE Corporation | noted |  |  |
| S3-213960 | Conclusion on Key Issue #2 | ZTE Corporation | noted |  |  |
| S3-213961 | Update the solution #11 | ZTE Corporation | approved |  |  |
| S3-213962 | Conclusion for the key issue 1 | ZTE Corporation | noted |  |  |
| S3-213963 | Further conclusion for KI#4 (initial access) | CableLabs | approved |  |  |
| S3-213964 | Update Annex B in TR 33.809 | CableLabs | revised |  | S3-214392 |
| S3-213965 | Discussion on Data Integrity Service in IoT | China Unicom | noted |  |  |
| S3-213966 | Reply LS to SA6 on new SID on Application Enablement for Data Integrity Verification Service in IoT | China Unicom | merged |  | S3-214337 |
| S3-213967 | Authentication and Authorization between EES and ECS | Intel Sweden AB | revised |  | S3-214489 |
| S3-213968 | [Draft] Reply LS on UE location aspects in NTN | Intel Sweden AB | merged |  | S3-214394 |
| S3-213969 | Conclusions for KI#4 (initial access) | Intel Sweden AB,Interdigital, Apple, Philips, Convida, Broadcom, Cablelabs, Lenovo, Motorola Mobility | revised |  | S3-214335 |
| S3-213970 | TR 33.847 Conclusion for Secondary Authentication support with L3 U2N | LG Electronics, InterDigital | noted |  |  |
| S3-213971 | Secondary Authentication for Remote UE with L3 U2N relay without N3IWF | LG Electronics, InterDigital | noted |  |  |
| S3-213972 | Reply LS on Layer-3 UE-to-Network Relay authentication and authorization | LG Electronics | noted |  |  |
| S3-213973 | New solution for UE onboarding | LG Electronics | revised |  | S3-214341 |
| S3-213974 | Further conclusion for KI#4 | LG Electronics | noted |  |  |
| S3-213975 | Reply LS on LS on MINT functionality for Disaster Roaming | LG Electronics | revised |  | S3-214342 |
| S3-213976 | New WID proposal for MINT | LG Electronics, LG Uplus, KT Corp, SK Telecom | noted |  |  |
| S3-213977 | TS 33.501 Rel-17 security aspects on MINT feature | LG Electronics Inc. | not pursued |  |  |
| S3-213978 | 5GFBS-Conclusion for solution#17 | Apple | noted |  |  |
| S3-213979 | 5GFBS-Reply LS to R2-2109121 on protection of RRCResumerequest message | Apple | noted |  |  |
| S3-213980 | 5GFBS- Update solution#27 on UE local security policy | Apple | noted |  |  |
| S3-213981 | WID of 5GFBS | Apple | noted |  |  |
| S3-213982 | MEC- New solution on EEC authentication based on GBA | Apple | noted |  |  |
| S3-213983 | MEC- Discussion paper on the privacy issue EEC ID | Apple | noted |  |  |
| S3-213984 | MEC- New solution on EEC ID privacy protection | Apple | noted |  |  |
| S3-213985 | Reply LS on UE location aspects in NTN (R2-2106543) | Apple | merged |  | S3-214394 |
| S3-213986 | Reply LS on NTN specific user consent (R2-2109199) | Apple | merged |  | S3-214349 |
| S3-213987 | Discussion paper on physical layer security | Apple | noted |  |  |
| S3-213988 | Countermeasures against a threat of a service disruption due to unprotected RRC messages proposed by 5G Security Forum in South Korea | SK Telecom | revised |  | S3-214332 |
| S3-213989 | Discussion on Integrity check during mobility procedure | NEC Telecom MODUS Ltd. | noted |  |  |
| S3-213990 | Integrity check during context transfer scenario 1 | NEC Telecom MODUS Ltd. | agreed |  |  |
| S3-213991 | Integrity check during context transfer scenario 2 | NEC Telecom MODUS Ltd. | not pursued |  |  |
| S3-213992 | Discussion on SA2 LS on MINT | LG Electronics Inc. | noted |  |  |
| S3-213993 | Conclusion for Key Issue #1 | Huawei, HiSilicon | revised |  | S3-214380 |
| S3-213994 | MSK derivation in external authentication | Huawei, HiSilicon | merged |  | S3-214515 |
| S3-213995 | Living CR for UC3S in TS 33.501 | Huawei, HiSilicon | noted |  | - |
| S3-213996 | User consent check | Huawei, HiSilicon | revised |  | S3-214478 |
| S3-213997 | User consent revocation | Huawei, HiSilicon | revised |  | S3-214479 |
| S3-213998 | New solution for naming of purposes | Huawei, HiSilicon | noted |  |  |
| S3-213999 | Address EN and add evaluation for solution 3 | Huawei, HiSilicon | approved |  |  |
| S3-214000 | Address EN and add evaluation for solution 4 | Huawei, HiSilicon | revised |  | S3-214381 |
| S3-214001 | Conclusion on key issue #3 | Huawei, HiSilicon | revised |  | S3-214382 |
| S3-214002 | Conclusion on UDM Service for User Consent Check | Huawei, HiSilicon | revised |  | S3-214383 |
| S3-214003 | Conclusion on User Consent Check | Huawei, HiSilicon | revised |  | S3-214384 |
| S3-214004 | Update the conclusion to KI#12 | Huawei,HiSilicon | revised |  | S3-214374 |
| S3-214005 | Update to solution #38 | Huawei,HiSilicon | approved |  |  |
| S3-214006 | Propose text to clause 6.3 about PC5 unicast | Huawei,HiSilicon, LG Electronics | revised |  | S3-214470 |
| S3-214007 | Propose to mitigate bidding-down attack | Huawei, HiSilicon | not pursued |  |  |
| S3-214008 | Reply LS on support of Pre-shared key derivation for IAB-donor-CU-UP | Huawei, HiSilicon | approved |  |  |
| S3-214009 | living doc for 5MBS WID | Huawei, HiSilicon | revised |  | S3-214422 |
| S3-214010 | Update the clause of security mechanisms for MBS traffic transmission | Huawei, HiSilicon | merged |  | S3-214436 |
| S3-214011 | Discussion paper on key distribution in interworking between LTE and 5G | Huawei, HiSilicon | endorsed |  |  |
| S3-214012 | Update to conclusion on key issue#2 | Huawei, HiSilicon | revised |  | S3-214377 |
| S3-214013 | editorial changes to TR 33.850 | Huawei, HiSilicon | approved |  |  |
| S3-214014 | Rel17 Clarification about multiple horizontal key derivations upon AMF re-allocation via direct NAS reroute | Huawei, HiSilicon | not pursued |  |  |
| S3-214015 | Conclusion on Key Issue #4.1 | Huawei, HiSilicon | noted |  |  |
| S3-214016 | Clarifications on solution 17 | Huawei, HiSilicon | noted |  |  |
| S3-214017 | User Consent Requirement | Huawei, HiSilicon | revised |  | S3-214480 |
| S3-214018 | Security protection for interworking between 5MBS and eMBMS | Huawei, HiSilicon | approved |  |  |
| S3-214019 | addressing the editor's notes in sol#27 | Huawei, HiSilicon | revised |  | S3-214379 |
| S3-214020 | Update to conclusion on key issue#3 | Huawei, HiSilicon | revised |  | S3-214378 |
| S3-214021 | SUPI privacy for SNPN | Ericsson | noted |  |  |
| S3-214022 | SUPI handling for EAP | Ericsson | noted |  |  |
| S3-214023 | Exclude EAP-AKA' from AAA | Ericsson | noted |  |  |
| S3-214024 | Initial access using AAA | Ericsson | merged |  | S3-214543 |
| S3-214025 | Solution KI#2 using AKMA | Ericsson | noted |  |  |
| S3-214026 | Correction of testcases in TS 33.511 | Huawei, HiSilicon | revised |  | S3-214481 |
| S3-214027 | Adding security description for L2 solution | Huawei, HiSilicon | revised |  | S3-214471 |
| S3-214028 | Add content to clause 5 | Huawei, HiSilicon | revised |  | S3-214472 |
| S3-214029 | A new solution to address KI#17 | Huawei, HiSilicon | revised |  | S3-214278 |
| S3-214030 | Conclusion to KI#17 | Huawei, HiSilicon | noted |  |  |
| S3-214031 | Add a new clause on security policy provisioning | Huawei, HiSilicon | revised |  | S3-214279 |
| S3-214032 | Discuss on a new study on Home network triggerred authenticaiton Huawei, HiSilicon endorsement Approval | Huawei, HiSilicon | noted |  |  |
| S3-214033 | New WID on Security Assurance Specification for Management Function | Huawei, HiSilicon | revised |  | S3-214482 |
| S3-214034 | New WID for SCAS work to introduce R-17 features on existing functions | Huawei, HiSilicon | noted |  |  |
| S3-214035 | Add clarification in EN-DC scenario | Huawei, HiSilicon | revised |  | S3-214476 |
| S3-214036 | Definition to Anonymous SUPI | Huawei, HiSilicon | revised |  | S3-214483 |
| S3-214037 | Correction to Authorization for indirect communication with delegated discovery procedure in rel16 | Huawei,HiSilicon | revised |  | S3-214474 |
| S3-214038 | Correction to Authorization for indirect communication with delegated discovery procedure in rel17 | Huawei,HiSilicon | revised |  | S3-214475 |
| S3-214039 | Correction to Deriving AKMA Application Key for a specific AF | Huawei,HiSilicon | not pursued |  |  |
| S3-214040 | P-TID Privacy protection in solution 39 | Huawei,HiSilicon | revised |  | S3-214375 |
| S3-214041 | resolving the EN on Kausf desych and key lifetime | Huawei,HiSilicon | revised |  | S3-214376 |
| S3-214042 | Proposal for U2NW relay authentication, authorization and key management | Huawei,HiSilicon | noted |  |  |
| S3-214043 | Update clause 4 | Huawei, HiSilicon | revised |  | S3-214473 |
| S3-214044 | Add text to clause 6.1 | Huawei, HiSilicon | noted |  |  |
| S3-214045 | Add a new clause on the privacy of DCR | Huawei, HiSilicon | noted |  |  |
| S3-214046 | clarification on handling the security context in MR | Huawei, HiSilicon | not pursued |  |  |
| S3-214047 | clarification on handling the security context in MR | Huawei, HiSilicon | not pursued |  |  |
| S3-214048 | clarification on handling the security context in MR | Huawei, HiSilicon | not pursued |  |  |
| S3-214049 | Resolving EN on the subscribe-notify issue | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung | noted |  |  |
| S3-214050 | Adding the evaluation for solution #9 | Huawei, HiSilicon | revised |  | S3-214387 |
| S3-214051 | Adding the conclusion for key issue #7 | Huawei, HiSilicon | noted |  |  |
| S3-214052 | Adding the conclusion for key issue #5 | Huawei, HiSilicon | revised |  | S3-214388 |
| S3-214053 | Authorizating the use of GBA service | Huawei, HiSilicon | noted |  |  |
| S3-214054 | Authentication and authorization for MBS session | Huawei, HiSilicon | revised |  | S3-214497 |
| S3-214055 | implementation for living CR for SIP digest changes | Huawei, Hisilicon | noted |  |  |
| S3-214056 | removal of unspecified validity of AV-R16 | Huawei, Hisilicon | revised |  | S3-214498 |
| S3-214057 | removal of unspecified validity of AV-R17 | Huawei, Hisilicon | revised |  | S3-214499 |
| S3-214058 | clarification on NAS count handling-R16 | Huawei, Hisilicon | not pursued |  |  |
| S3-214059 | clarification on NAS count handling-R17 | Huawei, Hisilicon | not pursued |  |  |
| S3-214060 | EN removal about the confidential protection in BEST | Huawei, Hisilicon | revised |  | S3-214512 |
| S3-214061 | EN removal about the authentication method selection in BEST | Huawei, Hisilicon | noted |  |  |
| S3-214062 | EN removal about the UE identification in BEST | Huawei, Hisilicon | noted |  | - |
| S3-214063 | CR for SIP digest | Huawei, Hisilicon | revised |  | S3-214501 |
| S3-214064 | Conclusion on Key issue #1 | Huawei, Hisilicon | revised |  | S3-214385 |
| S3-214065 | Conclusion on Key issue #2 | Huawei, Hisilicon | revised |  | S3-214386 |
| S3-214066 | Clarification on the SA2 and SA6 issues | Huawei, Hisilicon | approved |  |  |
| S3-214067 | Authentication and Authorization between EEC and ECS | Huawei, Hisilicon | noted |  |  |
| S3-214068 | Authentication and Authorization between EEC and EES | Huawei, Hisilicon | noted |  |  |
| S3-214069 | Authentication and Authorization in EES capability exposure for non-CAPIF scenario | Huawei, Hisilicon | revised |  | S3-214502 |
| S3-214070 | New Annex for Edge computing security | Huawei, Hisilicon | revised |  | S3-214503 |
| S3-214071 | Clarification on the emergency test | Huawei, Hisilicon | revised |  | S3-214504 |
| S3-214072 | Add the threat references in the TS 33.226 | Huawei, Hisilicon | agreed |  |  |
| S3-214073 | Clarification on the TLS mechanism betwee SEPPs | Huawei, Hisilicon | not pursued |  |  |
| S3-214074 | Resolving the EN on the authorization between SCPs | Huawei, Hisilicon | withdrawn |  |  |
| S3-214075 | Reply LS on Header Enrichment for HTTPS in PFCP | Huawei, Hisilicon | revised |  | S3-214505 |
| S3-214076 | open discovery | Huawei, HiSilicon | merged |  | S3-214441 |
| S3-214077 | restricted discovery | Huawei, HiSilicon | merged |  | S3-214441 |
| S3-214078 | Living CR on SCP to 33.926 | Nokia, Nokia Shanghai Bell | approved | S3-212293 |  |
| S3-214079 | Adding methods for authentication during onboarding | Nokia, Nokia Shanghai Bell | merged |  | S3-214543 |
| S3-214080 | Resolution to editor’s notes concerning identity sharing | Nokia, Nokia Shanghai Bell | merged |  | S3-214439 |
| S3-214081 | Resolution of editor note related to selection of root key | Nokia, Nokia Shanghai Bell | revised |  | S3-214515 |
| S3-214082 | Reply to LS on broadcast of NTN GW or gNB position | Nokia, Nokia Shanghai Bell | merged |  | S3-214336 |
| S3-214083 | Add details of algorithms to be supported | Ericsson | noted |  |  |
| S3-214084 | UE Capability to support UP IP with SeNB in DC | Ericsson | merged |  | S3-214476 |
| S3-214085 | UE Capability to support UP IP with SgNB in EN-DC | Ericsson | merged |  | S3-214476 |
| S3-214086 | Updates to clause 7.3.X on UP integrity protection policy | Ericsson | approved |  |  |
| S3-214087 | Updates to IW HO from EPS to 5GS in TS 33.501 | Ericsson | approved |  |  |
| S3-214088 | LS on support of User Plane integrity protection in EPS/LTE | Ericsson | noted |  |  |
| S3-214089 | Clarification on the emergency test - Rel15 | Huawei, Hisilicon | revised |  | S3-214506 |
| S3-214090 | Clarification on the emergency test - Rel16 | Huawei, Hisilicon | revised |  | S3-214507 |
| S3-214091 | AKMA roaming | Lenovo, Motorola Mobility | not pursued |  |  |
| S3-214092 | New WID on SECAM and SCAS for 3GPP virtualized network products | China Mobile | revised |  | S3-214492 |
| S3-214093 | New SID on interworking between 3GPP NF and security devices | China Mobile | noted |  |  |
| S3-214094 | living CR for eNA | China Mobile | revised |  | S3-214493 |
| S3-214095 | Add conclusion to KI #2.1 | China Mobile | approved |  |  |
| S3-214096 | LI for AKMA Roaming | Lenovo, Motorola Mobility | noted |  |  |
| S3-214097 | Discussions on ZUC-256 | CATT | noted |  |  |
| S3-214098 | Detection of MitM attacks with secret paging | Lenovo, Motorola Mobility | noted |  |  |
| S3-214099 | Evaluation of the potential security issue in QoE report handling at QoE pause | Lenovo, Motorola Mobility | noted |  |  |
| S3-214100 | LS on ZUC-256 | CATT | noted |  |  |
| S3-214101 | [DRAFT] Reply LS on QoE report handling at QoE pause | Lenovo, Motorola Mobility | revised |  | S3-214458 |
| S3-214102 | Resolving the EN on the authorization between SCPs | Huawei, HiSilicon | not pursued |  |  |
| S3-214103 | Reply LS on UE location aspects in NTN | CATT | revised |  | S3-214360 |
| S3-214104 | pCR to TR33.847- Update conclusions of KI#13 | CATT, Xiaomi, ZTE | approved |  |  |
| S3-214105 | pCR to TS33.503-Remove groupcast related content | CATT | approved |  |  |
| S3-214106 | Conclusion for key issue #2 on PNI-NPN | China Mobile, Ericsson | noted |  |  |
| S3-214107 | Add evaluation and system impact to solution#17 | China Mobile | noted |  |  |
| S3-214108 | living document of 5GMSG | China Mobile | revised |  | S3-214430 |
| S3-214109 | Change request to living document-MSGin5G | China Mobile | revised |  | S3-214517 |
| S3-214110 | pCR to TS33.503 Clause 4.2-Change reference point name | CATT | approved |  |  |
| S3-214111 | Presentation of Specification to TSG: TS 33.520, Version <0.3.0> for approval | China Unicom, Huawei, Hisilicon | approved |  |  |
| S3-214112 | pCR to TS33.503 Clause 6.3-Security for Unicast mode 5G ProSe Direct Communication | CATT | merged |  | S3-214470 |
| S3-214113 | Editorial and corrections | Ericsson | revised |  | S3-214420 |
| S3-214114 | Editorial change on TS 33.520 | China Unicom, Huawei, Hisilicon | approved |  |  |
| S3-214115 | Clarification to TEID uniqueness test case | Ericsson | not pursued |  |  |
| S3-214116 | Clarification to TEID uniqueness test case | Ericsson | not pursued |  |  |
| S3-214117 | Conclusion to KI#1 | Lenovo, Motorola Mobility, Deutsche Telekom, Interdigital, Broadcom, Intel | noted |  |  |
| S3-214118 | SUPI in Notifications from NSSAAF | Ericsson | not pursued |  |  |
| S3-214119 | Update to Solution #4 | Lenovo, Motorola Mobility | revised |  | S3-214339 |
| S3-214120 | Update to Solution #12 | Lenovo, Motorola Mobility | revised |  | S3-214340 |
| S3-214121 | Clarifications to UUAA Revocation | Lenovo, Motorola Mobility | revised |  | S3-214453 |
| S3-214122 | SUPI in Notifications from NSSAAF | Ericsson | not pursued |  |  |
| S3-214123 | Adding some abbreviations to TR 33.854 | Qualcomm Incorporated | revised |  | S3-214343 |
| S3-214124 | Corrections to TS 33.854 | Qualcomm Incorporated | revised |  | S3-214344 |
| S3-214125 | Proposed text for UUAA-MM | Qualcomm Incorporated | merged | S3-213517 | S3-214463 |
| S3-214126 | Proposed text for UUAA-SM | Qualcomm Incorporated | merged | S3-213518 | S3-214465 |
| S3-214127 | Proposed text for UUAA in EPS | Qualcomm Incorporated | noted |  |  |
| S3-214128 | Proposed conclusions for key issue #1 and key issue #2 | Qualcomm Incorporated | noted | S3-213522 |  |
| S3-214129 | Proposed conclusion for key issue #4.1 | Qualcomm Incorporated | revised | S3-212843 | S3-214355 |
| S3-214130 | Adding MACS as an input parameter to the calculation of AK\* to provide freshness | Qualcomm Incorporated, Thales | not pursued | S3-212846 |  |
| S3-214131 | Corrections to the TLS with AKMA specification | Qualcomm Incorporated | agreed | S3-212840 |  |
| S3-214132 | Adding TLS 1.3 with AKMA keys | Qualcomm Incorporated | agreed | S3-212841 |  |
| S3-214133 | Correction to the GBA TLS 1.3 specification | Qualcomm Incorporated | not pursued | S3-212842 |  |
| S3-214134 | GBA key re-negotiation with TLS 1.3 | Qualcomm Incorporated | revised |  | S3-214451 |
| S3-214135 | Discussion on adding SCAS for the various split gNB cases | Qualcomm Incorporated, Deutsche Telekom AG, AT&T | noted | S3-212838 |  |
| S3-214136 | Adding SCAS for the various split gNB cases | Qualcomm Incorporated, Deutsche Telekom AG, AT&T | not pursued | S3-212839 |  |
| S3-214137 | Proposed conclusion for AMF Re-allocation | Qualcomm Incorporated | noted | S3-212850 |  |
| S3-214138 | Confirming UE supported algorithms in Path Switch procedure | Qualcomm Incorporated | revised |  | S3-214452 |
| S3-214139 | Security requirements for UPIP over E-UTRA | Qualcomm Incorporated | revised |  | S3-214435 |
| S3-214140 | User-plane UE-to-network relay connection procedure | Qualcomm Incorporated, Ericsson | revised |  | S3-214438 |
| S3-214141 | Additional conclusion of KI #17 – UP security policy | Qualcomm Incorporated, CATT | noted |  |  |
| S3-214142 | Discussion on SA2 Reply LS on Layer-3 UE-to-Network Relay authentication and authorization | Qualcomm Incorporated | noted |  |  |
| S3-214143 | Removing Editor’s Notes in solution #42 | Qualcomm Incorporated | merged |  | S3-214346 |
| S3-214144 | Update of conclusion for KI#5 | Qualcomm Incorporated | noted |  |  |
| S3-214145 | Update of conclusion for Key Issue #13 | Qualcomm Incorporated | approved |  | - |
| S3-214146 | Conclusion of privacy protection of PDU session-related parameters for relaying | Qualcomm Incorporated | noted |  |  |
| S3-214147 | CR to ProSe TS – Direct Discovery | Qualcomm Incorporated, CATT | revised |  | S3-214441 |
| S3-214148 | CR to ProSe TS – Security Requirements in Direct Discovery | Qualcomm Incorporated, CATT | revised |  | S3-214444 |
| S3-214149 | Conclusion of KI #1 and KI #2 | Qualcomm Incorporated | revised |  | S3-214407 |
| S3-214150 | 5G MBS key management | Qualcomm Incorporated | revised |  | S3-214436 |
| S3-214151 | Conclusion for KI #1 | Qualcomm Incorporated | noted |  |  |
| S3-214152 | Conclusion for KI #2 | Qualcomm Incorporated | noted |  |  |
| S3-214153 | Conclusion for KI #3 | Qualcomm Incorporated | noted |  |  |
| S3-214154 | Reply LS on UE location aspects in NTN | Qualcomm Incorporated | merged |  | S3-214394 |
| S3-214155 | Reply LS on NTN specific User Consent | Qualcomm Incorporated | revised |  | S3-214349 |
| S3-214156 | Securing initial access for UE onboarding | Qualcomm Incorporated | revised |  | S3-214543 |
| S3-214157 | Resolution for EN on sending SUPI to SNPN | Qualcomm Incorporated | revised |  | S3-214439 |
| S3-214158 | Configuration of CH credentials | Qualcomm Incorporated | merged |  | S3-214515 |
| S3-214159 | eNPN: Evaluation of Solution #5 | Qualcomm Incorporated | noted |  |  |
| S3-214160 | pCR: Additional conclusions for KI #1 | Qualcomm Incorporated | approved |  |  |
| S3-214161 | UUAA during Registration | Lenovo, Motorola Mobility | merged |  | S3-214463 |
| S3-214162 | UUAA during PDU Session Establishment | Lenovo, Motorola Mobility | merged |  | S3-214465 |
| S3-214163 | Update to Solution#23 | Lenovo, Motorola Mobility | revised |  | S3-214338 |
| S3-214164 | Solution for provisioning PNI-NPN Credential | Lenovo, Motorola Mobility | noted |  |  |
| S3-214165 | Update to Clause 6.15.2.1 Procedure for UE Parameters Update | Lenovo, Motorola Mobility | not pursued |  |  |
| S3-214166 | Reply LS (S3-213818) on broadcast of NTN GW or gNB position | Xiaomi Technology | merged |  | S3-214336 |
| S3-214167 | Reply LS (S3-213820) on UE location aspects in NTN | Xiaomi Technology | merged |  | S3-214394 |
| S3-214168 | Reply LS (S3-213822) on UE location aspects in NTN | Xiaomi Technology | revised |  | S3-214394 |
| S3-214169 | Reply LS (S3-213823) on NTN specific user consent | Xiaomi Technology | merged |  | S3-214349 |
| S3-214170 | ProSe: Update to Solution #40 | Xiaomi Technology | revised |  | S3-214395 |
| S3-214171 | ProSe: Evaluation Update for Solution #41 | Xiaomi Technology | revised |  | S3-214396 |
| S3-214172 | ProSe: Conclusion Update for Key Issue #3 | Xiaomi Technology | noted |  |  |
| S3-214173 | ProSe: Conclusion for Key Issue #13 | Xiaomi Technology | approved |  |  |
| S3-214174 | ProSe: Conclusion for Key Issue #17 | Xiaomi Technology | noted |  |  |
| S3-214175 | eNPN: Conclusion for Key Issue #2 | Xiaomi Technology | noted |  |  |
| S3-214176 | eNS2: Key Issue #2 update | Xiaomi Communication | noted |  |  |
| S3-214177 | 33.503: Common Security | Xiaomi Technology | merged |  | S3-214472 |
| S3-214178 | 33.503: Security for Unicast Mode Direct Communication | Xiaomi Technology | merged |  | S3-214470 |
| S3-214179 | 33.503: Security for L3 U2N Relay Communication | Xiaomi Technology | revised |  | S3-214488 |
| S3-214180 | 33.503: Security for L2 U2N Relay Communication | Xiaomi Technology | merged |  | S3-214471 |
| S3-214181 | Protection for eNPN credential provisioning | Xiaomi Technology | noted |  |  |
| S3-214182 | Validity and revocation of consent | Ericsson | revised |  | S3-214434 |
| S3-214183 | eSBA Editorial updates to 33875-040 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214184 | eSBA KI#5 EN resolution | Nokia, Nokia Shanghai Bell | revised |  | S3-214365 |
| S3-214185 | eSBA KI#4 conclusion | Nokia, Nokia Shanghai Bell | revised |  | S3-214366 |
| S3-214186 | eSBA KI#9 Threats | Nokia, Nokia Shanghai Bell | merged |  | S3-214397 |
| S3-214187 | SBA CR CCA in roaming R16 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-214188 | SBA CR CCA in roaming R17 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-214189 | SBA CR NRF-NRF mutual auth R16 | Nokia, Nokia Shanghai Bell | revised |  | S3-214530 |
| S3-214190 | SBA CR NRF-NRF mutual auth R17 | Nokia, Nokia Shanghai Bell | revised |  | S3-214531 |
| S3-214191 | SBA CR Alignment for Oauth2.0 validation R15 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-214192 | SBA CR Alignment for Oauth2.0 validation R16 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-214193 | SBA CR Alignment for Oauth2.0 validation R17 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-214194 | SBA CR NRF deployments R17 | Nokia, Nokia Shanghai Bell | not pursued |  | - |
| S3-214195 | SBA CR N32 for interconnect R16 | Nokia, Nokia Shanghai Bell | revised |  | S3-214532 |
| S3-214196 | SBA CR N32 for interconnect R17 | Nokia, Nokia Shanghai Bell | revised |  | S3-214533 |
| S3-214197 | IPUPS overload control R17 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-214198 | Cover sheet - FS eSBA - Presentation of Report TR 33.875 | Nokia, Nokia Shanghai Bell | revised |  | S3-214367 |
| S3-214199 | Cover sheet - FS IIOT - Presentation and Approval of Report TR 33.851 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214200 | Cover sheet - SCAS SECOP - Presentation and Approval of TR 33.522 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214201 | FS\_eSBA\_SEC - SID revision | Nokia, Nokia Shanghai Bell | revised |  | S3-214535 |
| S3-214202 | WID\_eSBA\_SEC | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-214203 | WID\_N32\_SEC | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-214204 | 01 SCAS SECOP editorials to 33522-030 | Nokia, Nokia Shanghai Bell | revised |  | S3-214526 |
| S3-214205 | 02 SCAS SECOP Technical baseline | Nokia, Nokia Shanghai Bell | revised |  | S3-214527 |
| S3-214206 | SCAS SECOP Operating Systems | Nokia, Nokia Shanghai Bell | approved |  | - |
| S3-214207 | SCAS SECOP Web Servers | Nokia, Nokia Shanghai Bell | approved |  | - |
| S3-214208 | SCAS SECOP Network Devices | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214209 | SCAS SECOP Vulnerability testing | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214210 | SCAS SECOP update to Annex SCP in 33.926 | Nokia, Nokia Shanghai Bell | revised |  | S3-214486 |
| S3-214211 | ProSe: New solution PC5 anchor key generation via GBA Push | Ericsson | revised |  | S3-214363 |
| S3-214212 | Conclusion for user plane solutions for KI#3, KI#4, KI#9 | Ericsson | noted |  |  |
| S3-214213 | Conclusion for control plane solutions for KI#3, KI#4, KI#9 | Ericsson | revised |  | S3-214345 |
| S3-214214 | Security requirements for UE-to-network relay | Ericsson | merged |  | S3-214488 |
| S3-214215 | Security for UE to 5G DDNMF communication and for UE to 5G PKMF communication | Ericsson | merged |  | S3-214472 |
| S3-214216 | Introducing support of TLS v1.3 in ProSe TS 33.303 | Ericsson | agreed |  |  |
| S3-214217 | Update to WID on 3GPP profiles for cryptographic algorithms and security protocols | Ericsson | agreed |  |  |
| S3-214218 | Proposal for U2NW relay authentication, authorization and key management | Samsung, Interdigital, LG Electronics, Nokia, Nokia Shanghai Bell | revised |  | S3-214495 |
| S3-214219 | ProSe: Resolve EN in solution#1 | Samsung | noted |  |  |
| S3-214220 | [5gMSG] CR to living document: Authorization of MSG Client | Samsung | noted |  |  |
| S3-214221 | [EDGE] Discussion paper on need for EEC authentication | Samsung | noted |  |  |
| S3-214222 | [EDGE] Discussion on EDGE wayforward | Samsung | noted |  |  |
| S3-214223 | [eSBA] KI on inter slice access | Samsung | revised |  | S3-214397 |
| S3-214224 | Solution to KI#9: Authorization for Inter-Slice Access | Samsung | revised |  | S3-214398 |
| S3-214225 | [UC3S] Adding evaluation of solution #7 | Samsung | revised |  | S3-214400 |
| S3-214226 | [UC3S] Resolving Editor’s Note of solution #7 | Samsung | approved |  |  |
| S3-214227 | [UC3S] Conclusion for Edge User Consent | Samsung | revised |  | S3-214401 |
| S3-214228 | [Rel-16]Clarification on KIAB generation for CP-UP separation | Samsung, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, Intel | agreed |  |  |
| S3-214229 | [Rel-17]Clarification on KIAB generation for CP-UP separation | Samsung, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, Intel | agreed |  |  |
| S3-214230 | KIAB generation for NR-DC scenario | Samsung, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, Intel | agreed |  |  |
| S3-214231 | Discussion paper on need for Re-authentication | Samsung, NEC | noted |  |  |
| S3-214232 | CR to 33.501: Network initiated Primary Authentication | Samsung, NEC | not pursued |  |  |
| S3-214233 | CR to 33.535: Refresh of KAKMA and KAF | Samsung, NEC | not pursued |  |  |
| S3-214234 | CR to 33.535: Clarification on AKMA Application Key retrieval | Samsung | not pursued |  |  |
| S3-214235 | Discussion on AKMA Roaming scenario | Samsung | noted |  |  |
| S3-214236 | CR to 33.535: AKMA service support for roaming UE | Samsung | not pursued |  |  |
| S3-214237 | New WID for SEAL security enhancement | Samsung | revised |  | S3-214496 |
| S3-214238 | SID on user plane security enhancement | Samsung | noted |  |  |
| S3-214239 | [eSBA] New Solution for Key Issue #3: Authorization of notification endpoint | Samsung, Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | revised |  | S3-214399 |
| S3-214240 | [eSBA] Conclusion for KI#1 | Samsung, Huawei, HisiliconNokia, Nokia Shanghai Bell | noted |  |  |
| S3-214241 | [AMF re-alloc] Conclution to KI #1 | Samsung | noted |  |  |
| S3-214242 | Re-route 5G NAS security context via RAN | Samsung | noted |  |  |
| S3-214243 | AMF re-allocation: Discussion about the WID | Ericsson | noted |  |  |
| S3-214244 | New WID on the security of AMF re-allocation | Ericsson | noted |  |  |
| S3-214245 | Conclusion for the study | Ericsson | revised |  | S3-214350 |
| S3-214246 | Security handing of AMF re-allocation via RAN | Ericsson | noted |  |  |
| S3-214247 | Authentication enhancements: Discussion about the WID | Ericsson | noted |  |  |
| S3-214248 | New WID on Authentication enhancements in 5GS | Ericsson | revised |  | S3-214445 |
| S3-214249 | Remove Editor's Notes in key issue #3.1 | Ericsson | approved |  |  |
| S3-214250 | Living document for GBA\_5G: draftCR to TS 33.220: SBA support for Zh and Zn interfaces | Ericsson | revised |  | S3-214449 |
| S3-214251 | Living document for GBA\_5G: draftCR to TS 33.223: SBA support for Zpn | Ericsson | revised |  | S3-214450 |
| S3-214252 | pCR to living document of TS 33.220: Update of the interface names and removal of Editor's Notes | Ericsson | approved |  |  |
| S3-214253 | pCR to living document of TS 33.223: Update of the interface names and removal of Editor's Notes | Ericsson | approved |  |  |
| S3-214254 | pCR to living document of TS 33.220: Editorial changes | Ericsson | approved |  |  |
| S3-214255 | pCR to living document of TS 33.223: Editorial changes | Ericsson | approved |  |  |
| S3-214256 | pCR to living document of TS 33.220: Update of the new UDM service to a service operation | Ericsson | approved |  |  |
| S3-214257 | Discussion about GBA roaming in 5G | Ericsson | endorsed |  |  |
| S3-214258 | pCR to living document of TS 33.220: Roaming | Ericsson | approved |  |  |
| S3-214259 | pCR to living document of TS 33.223: Roaming | Ericsson | approved |  |  |
| S3-214260 | Reply to LS on broadcast of NTN GW or gNB position | Ericsson | revised |  | S3-214336 |
| S3-214261 | Discussion on the SBA services to support NSWO authentication | Ericsson | noted |  |  |
| S3-214262 | SBA services of AUSF/UDM for NSWO authentication | Ericsson | noted |  |  |
| S3-214263 | NSWO Solution 1 evaluation | Ericsson | approved |  |  |
| S3-214264 | Authorization mechanisms for data consumer to access data from data producer via DCCF | Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility, Mavenir, Verizon | revised |  | S3-214513 |
| S3-214265 | Authorization mechanisms for data consumer to access data from data producer when notification sent via MFAF | Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility | revised |  | S3-214514 |
| S3-214266 | Inputs to DDoS analysis framework to detect signalling storm | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214267 | Ed Note Removal for KI 1.4 Conclusion | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214268 | Ed Note Removal for Solution 11 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214269 | [33.180] MCXSec over 5GS | Ericsson, Motorola Solutions | agreed |  |  |
| S3-214270 | Updates to KI#1 and KI#2 | Ericsson | revised |  | S3-214347 |
| S3-214271 | Solving the EN in the requirements | Ericsson | approved |  |  |
| S3-214272 | Security for CoAP interfaces in SEAL | Ericsson | revised |  | S3-214431 |
| S3-214273 | Updates to conclusion of KI#1 | Ericsson | noted |  |  |
| S3-214274 | Updates to conclusion of KI#2 | Ericsson | noted |  |  |
| S3-214275 | Authentication and Authorization between EEC and ECS | Ericsson | noted |  |  |
| S3-214276 | Authentication and Authorization between EEC and EES | Ericsson | noted |  |  |
| S3-214277 | OAuth 2.0 profile for EC | Ericsson | noted |  |  |
| S3-214278 | A new solution to address KI#17 | Huawei, HiSilicon,Xiaomi | noted | S3-214029 |  |
| S3-214279 | Add a new clause on security policy provisioning | Huawei, HiSilicon,Xiaomi | noted | S3-214031 |  |
| S3-214280 | New Solution: Shared key based MIB/SIBs protection with enhanced protection against replay/MitM attacks | Philips International B.V. | noted |  |  |
| S3-214281 | Conclusions KI#3 | Philips International B.V. | noted |  |  |
| S3-214282 | Scope of TR 33.857 | Ericsson | approved |  |  |
| S3-214283 | Empty conclusion to KI#2 Provisioning of Credentials | Ericsson | noted |  |  |
| S3-214284 | Empty conclusion to KI#3 Security impacts from supporting IMS voice and IMS services in SNPNs | Ericsson | revised |  | S3-214351 |
| S3-214285 | Presentation of Report to TSG: TR 33.857, Version 0.9.0 | Ericsson | approved |  |  |
| S3-214286 | Clean-up of TR 33.857 | Ericsson | approved |  |  |
| S3-214287 | Living document for eNPN: draftCR to TS 33.501 capturing Security aspects of eNPN | Ericsson, Huawei, HiSilicon, Qualcomm Incorporated, CableLabs, Charter Communications, Intel, Nokia, Nokia Shanghai Bell | revised |  | S3-214437 |
| S3-214288 | Clarification audience of CCA | Ericsson | agreed |  |  |
| S3-214289 | Clarification audience of CCA | Ericsson | agreed |  |  |
| S3-214290 | Certificate profile for SCP and SEPP | Ericsson | not pursued |  |  |
| S3-214291 | Certificate profile for SCP and SEPP | Ericsson | not pursued |  |  |
| S3-214292 | SEPP include and verify source PLMN-ID | Ericsson | not pursued |  |  |
| S3-214293 | DP of LS from GSMA about roaming hub support | Ericsson | noted |  |  |
| S3-214294 | Solution for Key issue #7: Authorization mechanism determination | Ericsson | noted |  |  |
| S3-214295 | Key hierarchy, key distribution and key update in 5MBS | Philips International B.V. | not pursued |  |  |
| S3-214296 | Study of privacy of identities over radio access | InterDigital, Inc., Apple, AT&T, CableLabs, Convida Wireless, Futurewei, Intel, Motorola Mobility, Nokia, Nokia Shanghai Bell, Samsung, Telefonica, Verizon Wireless | revised | S3-213847 | S3-214487 |
| S3-214297 | Update Solution 37: Modification to ensure source authenticity in restricted discovery for relay and group discovery | Philips International B.V. | revised |  | S3-214348 |
| S3-214298 | Updates Solution #42 | Philips International B.V. | revised |  | S3-214346 |
| S3-214299 | Updates Solution #43 | Philips International B.V. | noted |  |  |
| S3-214300 | Conclusions KI#1 | Philips International B.V. | noted |  |  |
| S3-214301 | pCR to 5G ProSe draft TS clause 6.1-Security for 5G ProSe Discovery | Philips International B.V. | noted |  |  |
| S3-214302 | Concealing the length of NAI format SUPI exposed in SUCI by padding the SUPI before using non-null schemes | Ericsson | not pursued | S3-213003 |  |
| S3-214303 | Update on Authorization of NF Service Consumers for data access via DCCF | Ericsson | noted |  |  |
| S3-214304 | Security protection of data via Messaging Framework | Ericsson, Lenovo, Motorola Mobility | approved |  |  |
| S3-214305 | Security updates for algorithms and protocols in 33.310 | Ericsson | not pursued |  |  |
| S3-214306 | Security updates for algorithms and protocols in 33.328 | Ericsson | revised |  | S3-214428 |
| S3-214307 | Security updates for algorithms and protocols in 33.203 | Ericsson | revised |  | S3-214429 |
| S3-214308 | Living draftCRSecurity updates for algorithms and protocols for 33.310 | Ericsson | approved |  | - |
| S3-214309 | Living draftCR Security updates for algorithms and protocols for 33.210 | Ericsson | approved |  | - |
| S3-214310 | Conclusion for KI#2 | ORANGE, Deutsche Telekom, Thales, IDEMIA, Giesecke+Devrient | revised |  | S3-214359 |
| S3-214311 | New KI for Authentication of PLMNs over Roaming Hub | CableLabs | noted |  |  |
| S3-214312 | Conclusion for KI#4.1 | THALES, IDEMIA | noted |  |  |
| S3-214313 | Add Conclusion to Key Issue #12 about unicast communication and key refresh | KPN N.V;.Huawei; HiSilicon | noted |  |  |
| S3-214314 | New KI on Authorization of Roaming Hub by PLMN | CableLabs | noted |  |  |
| S3-214315 | Refresh of security context for PC5 unicast communication | KPN N.V. | noted |  |  |
| S3-214316 | Addition of MAC-S for authentication enhancement | THALES, IDEMIA | not pursued |  |  |
| S3-214317 | Conclusion for KI#1 | THALES | noted |  |  |
| S3-214318 | Conclusion for KI#2 | THALES | noted |  |  |
| S3-214319 | Presentation of Report to TSG: TR 33.846, Version 0.14.0 | Ericsson España S.A. | revised |  | S3-214352 |
| S3-214320 | Update Solution#9 | Philips International B.V. | revised |  | S3-214412 |
| S3-214321 | Update to solution #32 to address privacy issues with User Info ID (KI#5) | Philips International B.V. | revised |  | S3-214354 |
| S3-214322 | Update to conclusion KI#5 | Philips International B.V. | noted |  |  |
| S3-214323 | Conclusion for KI#16 | Philips International B.V. | noted |  |  |
| S3-214324 | Add new clauses on privacy protection for UE-to-NW relays | Philips International B.V. | noted |  |  |
| S3-214325 | LS out on authenticity and replay protection of system information | CableLabs | noted |  |  |
| S3-214326 | CR to 33.501 to protect additional SoR information (CPSOR-CMCI) | NTT DOCOMO INC. | not pursued |  |  |
| S3-214327 | draft-Reply LS on new parameters for SOR | NTT DOCOMO INC. | noted |  |  |
| S3-214328 | Draft CR to 33.401 - Living document on LTE UPIP | VODAFONE Group Plc | noted |  | - |
| S3-214329 | Avoiding unencrypted radio interface data transfer | Vodafone | not pursued |  |  |
| S3-214330 | Draft CR to 33.501 - Living document on LTE UPIP | VODAFONE Group Plc | noted |  | - |
| S3-214331 | Avoiding unencrypted radio interface data transfer | Vodafone | not pursued |  |  |
| S3-214332 | Countermeasures against a threat of a service disruption due to unprotected RRC messages proposed by 5G Security Forum in South Korea | SK Telecom | noted | S3-213988 |  |
| S3-214333 | Reply LS from 5GJA to 3GPP CT4, SA2 and SA3 on Using N32 for Interconnect Scenarios | GSMA | noted |  |  |
| S3-214334 | LS on conclusions of authentication methods for initial access for onboarding | Nokia | revised |  | S3-214541 |
| S3-214335 | Conclusions for KI#4 (initial access) | Intel Sweden AB,Interdigital, Apple, Philips, Convida, Broadcom, Cablelabs, Lenovo, Motorola Mobility, Qualcomm | approved | S3-213969 |  |
| S3-214336 | Reply to LS on broadcast of NTN GW or gNB position | Ericsson | approved | S3-214260 |  |
| S3-214337 | LS on reply to SA6 about new SID on Application Enablement for Data Integrity Verification Service in IOT | Nokia, Nokia Shanghai Bell | approved | S3-213887 |  |
| S3-214338 | Update to Solution#23 | Lenovo, Motorola Mobility | approved | S3-214163 |  |
| S3-214339 | Update to Solution #4 | Lenovo, Motorola Mobility | approved | S3-214119 |  |
| S3-214340 | Update to Solution #12 | Lenovo, Motorola Mobility | approved | S3-214120 |  |
| S3-214341 | New solution for UE onboarding | LG Electronics | approved | S3-213973 |  |
| S3-214342 | Reply LS on LS on MINT functionality for Disaster Roaming | LG Electronics | approved | S3-213975 | - |
| S3-214343 | Adding some abbreviations to TR 33.854 | Qualcomm Incorporated | agreed | S3-214123 |  |
| S3-214344 | Corrections to TS 33.854 | Qualcomm Incorporated | agreed | S3-214124 |  |
| S3-214345 | Conclusion for control plane solutions for KI#3, KI#4, KI#9 | Ericsson | approved | S3-214213 |  |
| S3-214346 | Updates Solution #42 | Philips International B.V. | approved | S3-214298 |  |
| S3-214347 | Updates to KI#1 and KI#2 | Ericsson | approved | S3-214270 |  |
| S3-214348 | Update Solution 37: Modification to ensure source authenticity in restricted discovery for relay and group discovery | Philips International B.V. | approved | S3-214297 |  |
| S3-214349 | Reply LS on NTN specific User Consent | Qualcomm Incorporated | approved | S3-214155 |  |
| S3-214350 | Conclusion for the study | Ericsson | approved | S3-214245 |  |
| S3-214351 | Empty conclusion to KI#3 Security impacts from supporting IMS voice and IMS services in SNPNs | Ericsson | approved | S3-214284 |  |
| S3-214352 | Presentation of Report to TSG: TR 33.846, Version 0.14.0 | Ericsson España S.A. | approved | S3-214319 |  |
| S3-214353 | Presentation of Report to TSG: TR 33.864, Version 0.7.0 | Ericsson España S.A. | approved |  |  |
| S3-214354 | Update to solution #32 to address privacy issues with User Info ID (KI#5) | Philips International B.V. | approved | S3-214321 |  |
| S3-214355 | Proposed conclusion for key issue #4.1 | Qualcomm Incorporated, Thales | approved | S3-214129 |  |
| S3-214356 | Presentation of Report to TSG: TR 33.850, Version 0.9.0 | Huawei, HiSilicon | approved |  |  |
| S3-214357 | Presentation of Report to TSG: TR 33.867, Version 0.8.0 | Huawei, HiSilicon | approved |  |  |
| S3-214358 | Update to solution #2.3 | JSRPC Kryptonite | approved | S3-213853 |  |
| S3-214359 | Conclusion for KI#2 | Thales, ORANGE, Deutsche Telekom, Telecom Italia, IDEMIA, Giesecke+Devrient | approved | S3-214310 |  |
| S3-214360 | Reply LS on UE location aspects in NTN | CATT | approved | S3-214103 |  |
| S3-214361 | update to Sol#1 | Huawei, Hisilicon | approved | S3-213918 |  |
| S3-214362 | draft TR 33.857 v0.9.0 | Ericsson | revised |  | S3-214540 |
| S3-214363 | ProSe: New solution PC5 anchor key generation via GBA Push | Ericsson | approved | S3-214211 |  |
| S3-214364 | Draft TR33.867 | Huawei, HiSilicon | approved |  |  |
| S3-214365 | eSBA KI#5 EN resolution | Nokia, Nokia Shanghai Bell | approved | S3-214184 |  |
| S3-214366 | eSBA KI#4 conclusion | Nokia, Nokia Shanghai Bell | approved | S3-214185 |  |
| S3-214367 | Presentation of Report TR 33.875-050 FS eSBA Security | Nokia, Nokia Shanghai Bell | approved | S3-214198 |  |
| S3-214368 | TR 33.850 for MBS security | Huawei, Hisilicon | approved |  |  |
| S3-214369 | TR 33.875-050 eSBA Security | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214370 | Presentation of Report to TSG: TR 33.862, Version 0.7.0 | China Mobile | approved |  |  |
| S3-214371 | conclusion to KI# 3 | Huawei, Hisilicon | approved | S3-213919 |  |
| S3-214372 | Presentation of Report to TSG: TR 33.839, Version 0.9.0 (For approval) | Huawei, HiSilicon | approved |  |  |
| S3-214373 | draft\_TR33.874-050 | Huawei, HiSilicon | approved |  |  |
| S3-214374 | Update the conclusion to KI#12 | Huawei, HiSilicon | approved | S3-214004 |  |
| S3-214375 | P-TID Privacy protection in solution 39 | Huawei, HiSilicon | approved | S3-214040 |  |
| S3-214376 | resolving the EN on Kausf desych and key lifetime | Huawei, HiSilicon | approved | S3-214041 |  |
| S3-214377 | Update to conclusion on key issue#2 | Huawei, HiSilicon | approved | S3-214012 |  |
| S3-214378 | Update to conclusion on key issue#3 | Huawei, HiSilicon | approved | S3-214020 |  |
| S3-214379 | addressing the editor's notes in sol#27 | Huawei, HiSilicon | approved | S3-214019 |  |
| S3-214380 | Conclusion on KI#1 for key derivation | Huawei, HiSilicon | approved | S3-213993 |  |
| S3-214381 | Address EN and add evaluation for solution 4 | Huawei, HiSilicon | approved | S3-214000 |  |
| S3-214382 | Conclusion on key issue #3 | Huawei, HiSilicon | approved | S3-214001 |  |
| S3-214383 | Conclusion on UDM Service for User Consent Check | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | approved | S3-214002 |  |
| S3-214384 | Conclusion on User Consent Check | Huawei, HiSilicon | approved | S3-214003 |  |
| S3-214385 | Conclusion on Key issue #1 | Huawei, Hisilicon, ZTE | approved | S3-214064 |  |
| S3-214386 | Conclusion on Key issue #2 | Huawei, Hisilicon, ZTE | approved | S3-214065 |  |
| S3-214387 | Adding the evaluation for solution #9 | Huawei, HiSilicon | revised | S3-214050 | S3-214389 |
| S3-214388 | Adding the conclusion for key issue #5 | Huawei, HiSilicon | approved | S3-214052 |  |
| S3-214389 | Adding the evaluation for solution #9 | Huawei, HiSilicon, China Mobile | approved | S3-214387 |  |
| S3-214390 | New solution: Ticket based access control for administrators | MITRE Corporation | approved | S3-213884 |  |
| S3-214391 | New Solution Using Boot Time Attestation for NF Registration | Johns Hopkins University APL, US National Security Agency, CableLabs, InterDigital, AT&T, CISA ECD, NIST | approved | S3-213897 |  |
| S3-214392 | Update Annex B in TR 33.809 | CableLabs | approved | S3-213964 |  |
| S3-214393 | New solution for Ki#13: Remote Attestation on 3GPP level | Nokia, Nokia Shanghai Bell | approved | S3-213896 |  |
| S3-214394 | Reply LS (S3-213822) on UE location aspects in NTN | Xiaomi Technology | approved | S3-214168 |  |
| S3-214395 | ProSe: Update to Solution #40 | Xiaomi Technology | approved | S3-214170 |  |
| S3-214396 | ProSe: Evaluation Update for Solution #41 | Xiaomi Technology | approved | S3-214171 |  |
| S3-214397 | [eSBA] KI on inter slice access | Samsung | approved | S3-214223 |  |
| S3-214398 | Solution to KI#9: Authorization for Inter-Slice Access | Samsung | approved | S3-214224 |  |
| S3-214399 | [eSBA] New Solution for Key Issue #3: Authorization of notification endpoint | Samsung, Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | approved | S3-214239 |  |
| S3-214400 | [UC3S] Adding evaluation of solution #7 | Samsung | approved | S3-214225 |  |
| S3-214401 | [UC3S] Conclusion for Edge User Consent | Samsung | approved | S3-214227 |  |
| S3-214402 | Draft TR 33.846 v0.14.0 Study on authentication enhancements in the 5G System (5GS) | Ericsson España S.A. | approved |  |  |
| S3-214403 | Draft TR 33.864 v0.7.0 Study on the security of Access and Mobility Management Function (AMF) re-allocation | Ericsson España S.A. | approved |  |  |
| S3-214404 | TR 33.847 v0.9.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS | CATT | approved |  |  |
| S3-214405 | draft TR 33.881 | Nokia Hungary | approved |  |  |
| S3-214406 | draft TR 33.848 | BT plc | approved |  |  |
| S3-214407 | Conclusion of KI #1 and KI #2 | Qualcomm Incorporated | approved | S3-214149 |  |
| S3-214408 | Draft TR 33.809 | Apple (UK) Limited | approved |  |  |
| S3-214409 | Presentation of Report TR 33.847-090 FS 5G ProSe Security | CATT | approved |  |  |
| S3-214410 | draft TR 33.866 0.8.0 | China Mobile E-Commerce Co. | approved |  |  |
| S3-214411 | Presentation of Report to TSG: TR 33.866, Version 0.8.0 | China Mobile E-Commerce Co. | approved |  |  |
| S3-214412 | Update Solution#9 | Philips International B.V. | approved | S3-214320 |  |
| S3-214413 | Draft TR 33.839 | HuaWei Technologies Co., Ltd | approved |  |  |
| S3-214414 | Reply to: Attack preventing NAS procedures to succeed | Huawei Technologies Sweden AB | approved |  |  |
| S3-214415 | Attack preventing NAS procedures to succeed | GSMA | replied to |  |  |
| S3-214416 | Follow up LS on MINT functionality for Disaster Roaming | LG Electronics Inc. | approved | - |  |
| S3-214417 | 33.512 – Alignment with TS 33.501 Rel-17 | Keysight Technologies UK Ltd | agreed | S3-213875 |  |
| S3-214418 | LS to SA2 on secondary authentication for multicast PDU session | Huawei, Hisilicon | revised |  | S3-214538 |
| S3-214419 | pCR to Living document for BEST\_5G: resolution of Editor’s notes | KPN N.V., Vodafone | approved | S3-213882 |  |
| S3-214420 | Editorial and corrections | Ericsson | agreed | S3-214113 |  |
| S3-214421 | Editorial and corrections | Ericsson | agreed |  |  |
| S3-214422 | living doc for 5MBS WID | Huawei, HiSilicon | approved | S3-214009 |  |
| S3-214423 | Editorial and corrections | Ericsson | agreed |  |  |
| S3-214424 | CR - Security updates for algorithms and protocols for 33.310 | Ericsson | agreed | - |  |
| S3-214425 | Reply LS to GSMA on NRF mutual authentication in roaming scenario | Nokia | approved |  |  |
| S3-214426 | CR - Security updates for algorithms and protocols for 33.210 | Ericsson | agreed | - |  |
| S3-214427 | Reply-LS on Using N32 for interconnect scenarios | Nokia | approved | - |  |
| S3-214428 | Security updates for algorithms and protocols in 33.328 | Ericsson | agreed | S3-214306 |  |
| S3-214429 | Security updates for algorithms and protocols in 33.203 | Ericsson | agreed | S3-214307 |  |
| S3-214430 | living document of 5GMSG | China Mobile | approved | S3-214108 |  |
| S3-214431 | Security for CoAP interfaces in SEAL | Ericsson, Samsung | agreed | S3-214272 |  |
| S3-214432 | Support for NSWO in 5GS | Nokia, Nokia Shanghai Bell,AT&T,Lenovo,Motorola Mobility,Qualcomm Incorporated, Intel, Samsung | agreed | S3-213890 |  |
| S3-214433 | New WID on Non-Seamless WLAN offload Authentication in 5GS | Nokia, Nokia Shanghai Bell | agreed | S3-213888 |  |
| S3-214434 | Validity and revocation of consent | Ericsson | approved | S3-214182 |  |
| S3-214435 | Security requirements for UPIP over E-UTRA | Qualcomm Incorporated | approved | S3-214139 |  |
| S3-214436 | 5G MBS key management | Qualcomm Incorporated | approved | S3-214150 |  |
| S3-214437 | Living document for eNPN: draftCR to TS 33.501 capturing Security aspects of eNPN | Ericsson, Huawei, HiSilicon, Qualcomm Incorporated, CableLabs, Charter Communications, Intel, Nokia, Nokia Shanghai Bell | approved | S3-214287 |  |
| S3-214438 | User-plane UE-to-network relay connection procedure | Qualcomm Incorporated, Ericsson | approved | S3-214140 |  |
| S3-214439 | Resolution for EN on sending SUPI to SNPN | Qualcomm Incorporated | approved | S3-214157 |  |
| S3-214440 | Certificate profile for SCP and SEPP | Ericsson, Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214441 | CR to ProSe TS – Direct Discovery | Qualcomm Incorporated, CATT, ZTE, Huawei, HiSilicon | approved | S3-214147 |  |
| S3-214442 | SEPP include and verify source PLMN-ID | Ericsson | approved |  |  |
| S3-214443 | Reply LS on Layer-3 UE-to-Network Relay authentication and authorization | QUALCOMM JAPAN LLC. | approved |  |  |
| S3-214444 | CR to ProSe TS – Security Requirements in Direct Discovery | Qualcomm Incorporated, CATT, ZTE | approved | S3-214148 |  |
| S3-214445 | New WID on Authentication enhancements in 5GS | Ericsson | agreed | S3-214248 |  |
| S3-214446 | Security aspects of eNPN | Ericsson, Huawei, HiSilicon, Qualcomm Incorporated, CableLabs, Charter Communications, Intel, Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-214447 | Reply LS on UE capabilities indication in UPU | Qualcomm India Pvt Ltd | approved |  |  |
| S3-214448 | Update of conclusion for Key Issue #13 | Qualcomm Incorporated | withdrawn | - |  |
| S3-214449 | Living document for GBA\_5G: draftCR to TS 33.220: SBA support for Zh and Zn interfaces | Ericsson | approved | S3-214250 |  |
| S3-214450 | Living document for GBA\_5G: draftCR to TS 33.223: SBA support for Zpn | Ericsson | approved | S3-214251 |  |
| S3-214451 | GBA key re-negotiation with TLS 1.3 | Qualcomm Incorporated | agreed | S3-214134 |  |
| S3-214452 | Confirming UE supported algorithms in Path Switch procedure | Qualcomm Incorporated | agreed | S3-214138 |  |
| S3-214453 | Clarifications to UUAA Revocation | Lenovo, Motorola Mobility, Huawei, Hisilicon | approved | S3-214121 |  |
| S3-214454 | Addition of UPIP for LTE | VODAFONE Group Plc | agreed | - | - |
| S3-214455 | User Plane Integrity Protection Policy Handling in IW handover from EPS to 5GS | VODAFONE Group Plc | agreed | - | - |
| S3-214456 | Reply LS on 5GS roaming hubbing | NTT DOCOMO INC. | approved |  |  |
| S3-214457 | Living document for UC3S: draftCR to TS 33.501 capturing Security aspects of user consent | Huawei, HiSilicon | approved |  |  |
| S3-214458 | LS on QoE report handling at QoE pause | Lenovo, Motorola Mobility | approved | S3-214101 |  |
| S3-214459 | Security aspects of User Consent | Huawei, HiSilicon | agreed |  |  |
| S3-214460 | WID on enhanced security for Phase 2 network slicing | Huawei, Hisilicon, Lenovo, Motorola Mobility, China Mobile, China Unicom, CATT, ZTE, CAICT, Xiaomi | agreed | S3-213920 |  |
| S3-214461 | Living document for BEST\_5G: draftCR to TS 33.163 | KPN N.V. | approved | S3-213881 |  |
| S3-214462 | LS on LTE User Plane Integrity Protection | VODAFONE Group Plc | approved |  |  |
| S3-214463 | UUAA procedure at registration | Huawei, Hisilicon, Lenovo, Motorola Mobility, Qualcomm, Interdigital | approved | S3-213923 |  |
| S3-214464 | Security aspects of 5MBS | Huawei, Hisilicon | agreed |  |  |
| S3-214465 | UUAA procedure at PDU session establishment | Huawei, Hisilicon, Lenovo, Motorola Mobility, Qualcomm, Interdigital | approved | S3-213924 |  |
| S3-214466 | Pairing authorization | Huawei, Hisilicon, Lenovo, Motorola Mobility, Interdigital | approved | S3-213925 |  |
| S3-214467 | New Annex with Assets and Threats specific to SCAS SCP | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-214468 | 33.522 - 5G Security Assurance Specification (SCAS); Service Communication Proxy (SECOP) | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-214469 | Minimum set of functions for SCP | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-214470 | Propose text to clause 6.3 about PC5 unicast | Huawei; HiSilicon, LG Electronics, CATT, Xiaomi | approved | S3-214006 |  |
| S3-214471 | Adding security description for L2 solution | Huawei, HiSilicon, Xiaomi | approved | S3-214027 |  |
| S3-214472 | Add content to clause 5 | Huawei, HiSilicon, ZTE, Xiaomi, Ericsson | approved | S3-214028 |  |
| S3-214473 | Update clause 4 | Huawei, HiSilicon | approved | S3-214043 |  |
| S3-214474 | Correction to Authorization for indirect communication | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson | agreed | S3-214037 |  |
| S3-214475 | Correction to Authorization for indirect communication | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson | agreed | S3-214038 |  |
| S3-214476 | Add clarification in EN-DC scenario | Huawei, HiSilicon | approved | S3-214035 |  |
| S3-214477 | Living CR for UC3S in TS 33.501 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson | withdrawn | - |  |
| S3-214478 | User consent check | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | approved | S3-213996 |  |
| S3-214479 | User consent revocation | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | approved | S3-213997 |  |
| S3-214480 | User Consent Requirement | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | approved | S3-214017 |  |
| S3-214481 | Update testcases to clause 4.2.2.1.18 and 4.2.2.1.19 | Huawei, HiSilicon | agreed | S3-214026 |  |
| S3-214482 | New WID on Security Assurance Specification for Management Function (MnF) | Huawei, HiSilicon | agreed | S3-214033 |  |
| S3-214483 | Clarification on anonymous SUCI related | Huawei, HiSilicon | approved | S3-214036 |  |
| S3-214484 | Update Nnssaaf\_AIW interface | CableLabs | approved | S3-213928 |  |
| S3-214485 | Mission Critical R18 WID | Motorola Solutions Danmark A/S | agreed | S3-213903 |  |
| S3-214486 | SCAS SECOP update to Annex SCP in 33.926 | Nokia, Nokia Shanghai Bell | approved | S3-214210 |  |
| S3-214487 | New Study of privacy of identifiers over radio access | InterDigital, Inc., Apple, AT&T, CableLabs, CATT, CISA ECD, Convida Wireless, Ericsson, Futurewei, Intel, Johns Hopkins University APL, Mavenir, Motorola Mobility, Nokia, Nokia Shanghai Bell, Peraton Labs, Phillips, Samsung, Telefonica, T-Mobile US, US NI | agreed | S3-214296 |  |
| S3-214488 | 33.503: Security for L3 U2N Relay Communication | Xiaomi Technology | approved | S3-214179 |  |
| S3-214489 | Authentication and Authorization between EES and ECS | Intel Sweden AB | approved | S3-213967 |  |
| S3-214490 | Clean up for clause 6.6.1 | ZTE Corporation | agreed | S3-213936 |  |
| S3-214491 | Delete the GBA\_Digest in annex B.1.2.2 | ZTE Corporation | agreed | S3-213945 |  |
| S3-214492 | New WID on SECAM and SCAS for 3GPP virtualized network products | China Mobile | agreed | S3-214092 |  |
| S3-214493 | living CR for eNA | China Mobile | approved | S3-214094 |  |
| S3-214494 | CR for eNA | China Mobile E-Commerce Co. | agreed |  |  |
| S3-214495 | Proposal for U2NW relay authentication, authorization and key management | Samsung, Interdigital, LG Electronics, Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | approved | S3-214218 |  |
| S3-214496 | New WID for SEAL security enhancement | Samsung | agreed | S3-214237 |  |
| S3-214497 | Authentication and authorization for MBS session | Huawei, HiSilicon | approved | S3-214054 |  |
| S3-214498 | removal of unspecified validity of AV-R16 | Huawei, Hisilicon | agreed | S3-214056 |  |
| S3-214499 | removal of unspecified validity of AV-R17 | Huawei, Hisilicon | agreed | S3-214057 |  |
| S3-214500 | EN removal about the UE identification in BEST | Huawei, Hisilicon | withdrawn | - |  |
| S3-214501 | CR for SIP digest | Huawei, Hisilicon | revised | S3-214063 | S3-214516 |
| S3-214502 | Authentication and Authorization in EES capability exposure for non-CAPIF scenario | Huawei, Hisilicon | approved | S3-214069 |  |
| S3-214503 | New Annex for Edge computing security | Huawei, Hisilicon | agreed | S3-214070 |  |
| S3-214504 | Clarification on the emergency test | Huawei, Hisilicon | agreed | S3-214071 |  |
| S3-214505 | Reply LS on Header Enrichment for HTTPS in PFCP | Huawei, Hisilicon | approved | S3-214075 |  |
| S3-214506 | Clarification on the emergency test - Rel15 | Huawei, Hisilicon | agreed | S3-214089 |  |
| S3-214507 | Clarification on the emergency test - Rel16 | Huawei, Hisilicon | agreed | S3-214090 |  |
| S3-214508 | Draft TS 33.558 | Huawei, Hisilicon | approved |  |  |
| S3-214509 | Rel-17 Work Item Exception for EDGE\_5GC | Huawei, Hisilicon | agreed |  |  |
| S3-214510 | Rel-17 Work Item Exception for 5G\_ProSe Security Aspects | CATT | agreed |  |  |
| S3-214511 | Draft TS 33.503 v0.2.0 Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS) | CATT | approved |  |  |
| S3-214512 | EN removal about the confidential protection in BEST | Huawei, Hisilicon | revised | S3-214060 | S3-214536 |
| S3-214513 | Authorization mechanisms for data consumer to access data from data producer via DCCF | Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility, Mavenir, Verizon, Ericsson, Huawei, HiSilicon, China mobile | approved | S3-214264 |  |
| S3-214514 | Authorization mechanisms for data consumer to access data from data producer when notification sent via MFAF | Nokia, Nokia Shanghai Bell, Lenovo, Motorola Mobility | approved | S3-214265 |  |
| S3-214515 | Resolution of editor note related to selection of root key | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon, Qualcomm Incorporated | approved | S3-214081 |  |
| S3-214516 | CR for SIP digest | Huawei, Hisilicon, T-Mobile US, Mavenir | agreed | S3-214501 |  |
| S3-214517 | Change request to living document-MSGin5G | China Mobile | approved | S3-214109 |  |
| S3-214518 | Security aspects of MSGin5G | China Mobile | agreed |  |  |
| S3-214519 | SBA support for the Zh and Zn interfaces | Ericsson, Huawei, HiSilicon, Thales | agreed |  |  |
| S3-214520 | SBA support for the Zpn interface | Ericsson, Huawei, HiSilicon, Thales | agreed |  |  |
| S3-214521 | Draft TS 33.256 | Qualcomm CDMA Technologies | approved | S3-213710 |  |
| S3-214522 | Cover sheet for TS 33.256 | Qualcomm Incorporated | approved |  |  |
| S3-214523 | Exception sheet for UAS | Qualcomm Incorporated | agreed |  |  |
| S3-214524 | Update of BEST for 5G including GBA, 5G GBA, AKMA | KPN N.V. | revised |  | S3-214542 |
| S3-214525 | LS Reply on security protection of RRCResumeRequest message | NTT DOCOMO INC. | revised |  | S3-214539 |
| S3-214526 | SCAS SECOP editorials to 33522-030 | Nokia, Nokia Shanghai Bell | approved | S3-214204 |  |
| S3-214527 | SCAS SECOP Technical baseline | Nokia, Nokia Shanghai Bell | approved | S3-214205 |  |
| S3-214528 | SCAS SECOP Operating Systems | Nokia, Nokia Shanghai Bell | withdrawn | - |  |
| S3-214529 | SCAS SECOP Web Servers | Nokia, Nokia Shanghai Bell | withdrawn | - |  |
| S3-214530 | SBA CR NRF-NRF mutual auth R16 | Nokia, Nokia Shanghai Bell | agreed | S3-214189 |  |
| S3-214531 | SBA CR NRF-NRF mutual auth R17 | Nokia, Nokia Shanghai Bell | agreed | S3-214190 |  |
| S3-214532 | SBA CR N32 for interconnect R16 | Nokia, Nokia Shanghai Bell | agreed | S3-214195 |  |
| S3-214533 | SBA CR N32 for interconnect R17 | Nokia, Nokia Shanghai Bell | agreed | S3-214196 |  |
| S3-214534 | SBA CR NRF deployments R17 | Nokia, Nokia Shanghai Bell, Ericsson | approved | - |  |
| S3-214535 | FS\_eSBA\_SEC - SID revision | Nokia, Nokia Shanghai Bell | agreed | S3-214201 |  |
| S3-214536 | EN removal about the confidential protection in BEST | Huawei, Hisilicon | approved | S3-214512 | - |
| S3-214537 | Draft TS 33.520 | China Unicom | approved | - | - |
| S3-214538 | LS to SA2 on secondary authentication for multicast PDU session | Huawei, Hisilicon | approved | S3-214418 | - |
| S3-214539 | LS Reply on security protection of RRCResumeRequest message | NTT DOCOMO INC. | approved | S3-214525 | - |
| S3-214540 | draft TR 33.857 v0.9.0 | Ericsson | approved | S3-214362 | - |
| S3-214541 | LS on conclusions of authentication methods for initial access for onboarding | Nokia | approved | S3-214334 | - |
| S3-214542 | Update of BEST for 5G including GBA, 5G GBA, AKMA | KPN N.V. | agreed | S3-214524 | - |
| S3-214543 | Securing initial access for UE onboarding | Qualcomm Incorporated | approved | S3-214156 | - |

### A2: Tdoc decision timing

|  |  |  |
| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S3-213800 | 08/11/2021 14:03:45 | approved |
| S3-213801 | 08/11/2021 14:03:54 | approved |
| S3-213802 | 08/11/2021 14:03:55 | approved |
| S3-213803 | 08/11/2021 14:03:48 | noted |
| S3-213804 | 08/11/2021 14:03:58 | noted |
| S3-213805 | 23/11/2021 12:15:19 | noted |
| S3-213806 | 24/11/2021 14:05:20 | available |
| S3-213806 | 29/11/2021 09:06:17 | email approval |
| S3-213807 | 23/11/2021 16:17:34 | noted |
| S3-213808 | 23/11/2021 16:17:37 | postponed |
| S3-213809 | 23/11/2021 12:54:12 | postponed |
| S3-213810 | 23/11/2021 12:56:25 | noted |
| S3-213811 | 23/11/2021 12:56:27 | noted |
| S3-213812 | 24/11/2021 14:16:42 | noted |
| S3-213813 | 23/11/2021 12:57:56 | available |
| S3-213814 | 23/11/2021 13:09:22 | revised |
| S3-213815 | 24/11/2021 13:57:35 | noted |
| S3-213816 | 17/11/2021 15:19:20 | replied to |
| S3-213816 | 18/11/2021 14:20:03 | withdrawn |
| S3-213817 | 23/11/2021 13:09:40 | noted |
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| S3-213819 | 23/11/2021 13:11:55 | noted |
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| S3-213825 | 23/11/2021 17:36:20 | available |
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| S3-213827 | 23/11/2021 13:25:58 | noted |
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| S3-213833 | 23/11/2021 16:19:23 | postponed |
| S3-213834 | 23/11/2021 17:50:26 | postponed |
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| S3-213894 | 23/11/2021 17:51:47 | noted |
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| S3-213961 | 24/11/2021 13:41:10 | approved |
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| S3-213979 | 23/11/2021 17:43:43 | noted |
| S3-213980 | 23/11/2021 17:43:56 | noted |
| S3-213981 | 23/11/2021 17:11:14 | noted |
| S3-213982 | 24/11/2021 10:29:10 | noted |
| S3-213983 | 24/11/2021 10:30:11 | noted |
| S3-213984 | 24/11/2021 10:30:12 | noted |
| S3-213985 | 23/11/2021 13:17:26 | available |
| S3-213986 | 23/11/2021 13:25:53 | available |
| S3-213987 | 23/11/2021 17:21:06 | noted |
| S3-213988 | 02/11/2021 13:41:41 | revised |
| S3-213989 | 23/11/2021 17:21:10 | noted |
| S3-213990 | 23/11/2021 17:21:12 | agreed |
| S3-213991 | 23/11/2021 17:21:37 | available |
| S3-213992 | 23/11/2021 14:06:25 | noted |
| S3-213994 | 23/11/2021 16:19:48 | available |
| S3-213995 | 23/11/2021 16:51:12 | noted |
| S3-213998 | 24/11/2021 13:37:41 | noted |
| S3-213999 | 24/11/2021 13:37:44 | approved |
| S3-214005 | 24/11/2021 10:32:25 | noted |
| S3-214005 | 24/11/2021 10:32:26 | approved |
| S3-214007 | 23/11/2021 17:21:54 | available |
| S3-214008 | 23/11/2021 13:26:38 | approved |
| S3-214010 | 23/11/2021 16:11:52 | available |
| S3-214011 | 24/11/2021 13:03:30 | available |
| S3-214013 | 24/11/2021 13:01:36 | approved |
| S3-214014 | 23/11/2021 17:21:57 | available |
| S3-214015 | 23/11/2021 17:51:51 | noted |
| S3-214016 | 23/11/2021 17:43:48 | noted |
| S3-214018 | 23/11/2021 16:12:24 | approved |
| S3-214021 | 23/11/2021 16:23:22 | noted |
| S3-214022 | 23/11/2021 16:19:52 | noted |
| S3-214023 | 23/11/2021 16:19:55 | noted |
| S3-214024 | 23/11/2021 16:21:31 | noted |
| S3-214024 | 26/11/2021 09:19:46 | available |
| S3-214025 | 24/11/2021 13:24:36 | noted |
| S3-214030 | 24/11/2021 10:38:28 | noted |
| S3-214032 | 23/11/2021 17:11:20 | noted |
| S3-214034 | 23/11/2021 17:11:32 | noted |
| S3-214039 | 23/11/2021 15:37:10 | available |
| S3-214042 | 23/11/2021 16:49:05 | noted |
| S3-214044 | 23/11/2021 16:46:38 | noted |
| S3-214045 | 23/11/2021 16:48:05 | noted |
| S3-214046 | 23/11/2021 17:22:03 | available |
| S3-214047 | 23/11/2021 17:22:12 | available |
| S3-214048 | 23/11/2021 17:22:16 | available |
| S3-214049 | 24/11/2021 13:45:36 | noted |
| S3-214051 | 24/11/2021 13:46:32 | noted |
| S3-214053 | 23/11/2021 14:11:38 | noted |
| S3-214055 | 23/11/2021 15:42:11 | noted |
| S3-214058 | 23/11/2021 17:22:36 | available |
| S3-214059 | 23/11/2021 17:22:40 | available |
| S3-214061 | 23/11/2021 14:52:56 | noted |
| S3-214062 | 23/11/2021 14:53:12 | noted |
| S3-214066 | 24/11/2021 10:30:36 | approved |
| S3-214067 | 23/11/2021 16:28:19 | noted |
| S3-214068 | 23/11/2021 16:28:41 | noted |
| S3-214072 | 23/11/2021 14:12:32 | agreed |
| S3-214073 | 23/11/2021 17:23:36 | available |
| S3-214076 | 23/11/2021 16:46:51 | available |
| S3-214077 | 23/11/2021 16:46:58 | available |
| S3-214078 | 23/11/2021 14:33:07 | approved |
| S3-214079 | 23/11/2021 16:21:37 | noted |
| S3-214079 | 26/11/2021 09:19:54 | available |
| S3-214080 | 23/11/2021 16:20:22 | available |
| S3-214082 | 23/11/2021 13:14:36 | available |
| S3-214083 | 23/11/2021 15:38:33 | noted |
| S3-214084 | 23/11/2021 15:38:37 | noted |
| S3-214085 | 23/11/2021 15:39:13 | available |
| S3-214086 | 23/11/2021 15:39:21 | approved |
| S3-214087 | 23/11/2021 15:39:23 | approved |
| S3-214088 | 23/11/2021 15:39:26 | noted |
| S3-214091 | 23/11/2021 15:37:19 | available |
| S3-214093 | 23/11/2021 17:11:42 | noted |
| S3-214095 | 24/11/2021 13:40:29 | approved |
| S3-214096 | 23/11/2021 15:37:28 | noted |
| S3-214097 | 23/11/2021 14:09:57 | noted |
| S3-214098 | 23/11/2021 17:44:44 | noted |
| S3-214099 | 23/11/2021 13:27:50 | noted |
| S3-214100 | 23/11/2021 14:10:00 | noted |
| S3-214102 | 23/11/2021 17:23:39 | available |
| S3-214103 | 12/11/2021 14:13:55 | revised |
| S3-214104 | 24/11/2021 10:38:33 | approved |
| S3-214105 | 23/11/2021 16:47:27 | approved |
| S3-214106 | 24/11/2021 13:24:05 | noted |
| S3-214107 | 24/11/2021 13:24:08 | noted |
| S3-214110 | 23/11/2021 16:35:28 | approved |
| S3-214111 | 23/11/2021 14:35:53 | approved |
| S3-214112 | 23/11/2021 16:47:50 | available |
| S3-214114 | 23/11/2021 14:35:55 | approved |
| S3-214115 | 23/11/2021 17:17:58 | available |
| S3-214116 | 23/11/2021 17:18:01 | available |
| S3-214117 | 24/11/2021 13:43:46 | noted |
| S3-214118 | 23/11/2021 17:23:10 | available |
| S3-214119 | 12/11/2021 15:03:11 | approved |
| S3-214120 | 12/11/2021 15:03:45 | approved |
| S3-214122 | 23/11/2021 17:23:12 | available |
| S3-214125 | 23/11/2021 16:31:54 | available |
| S3-214126 | 23/11/2021 16:32:36 | available |
| S3-214127 | 23/11/2021 16:33:05 | noted |
| S3-214128 | 24/11/2021 10:29:19 | noted |
| S3-214130 | 23/11/2021 17:27:22 | available |
| S3-214131 | 23/11/2021 16:30:53 | agreed |
| S3-214132 | 23/11/2021 16:30:54 | agreed |
| S3-214133 | 23/11/2021 15:42:33 | available |
| S3-214135 | 23/11/2021 14:30:48 | noted |
| S3-214136 | 23/11/2021 14:31:13 | available |
| S3-214137 | 24/11/2021 13:43:53 | noted |
| S3-214141 | 24/11/2021 10:38:38 | noted |
| S3-214142 | 24/11/2021 10:32:19 | noted |
| S3-214143 | 24/11/2021 10:33:04 | available |
| S3-214144 | 24/11/2021 10:38:43 | noted |
| S3-214145 | 26/11/2021 10:22:02 | approved |
| S3-214146 | 24/11/2021 10:41:27 | noted |
| S3-214149 | 15/11/2021 14:13:43 | available |
| S3-214151 | 23/11/2021 17:43:55 | noted |
| S3-214152 | 23/11/2021 17:44:13 | noted |
| S3-214153 | 23/11/2021 17:44:33 | noted |
| S3-214154 | 23/11/2021 13:17:40 | available |
| S3-214156 | 23/11/2021 16:22:42 | available |
| S3-214156 | 26/11/2021 08:30:55 | revised |
| S3-214158 | 23/11/2021 16:20:54 | available |
| S3-214159 | 24/11/2021 13:21:38 | noted |
| S3-214160 | 24/11/2021 13:23:47 | approved |
| S3-214161 | 23/11/2021 16:32:03 | available |
| S3-214162 | 23/11/2021 16:32:40 | available |
| S3-214164 | 24/11/2021 13:24:35 | noted |
| S3-214165 | 23/11/2021 16:25:21 | available |
| S3-214166 | 23/11/2021 13:10:04 | approved |
| S3-214167 | 23/11/2021 13:17:47 | available |
| S3-214167 | 23/11/2021 13:17:50 | noted |
| S3-214168 | 15/11/2021 14:44:53 | available |
| S3-214169 | 23/11/2021 13:25:46 | available |
| S3-214172 | 24/11/2021 10:41:30 | noted |
| S3-214173 | 24/11/2021 10:41:36 | approved |
| S3-214174 | 24/11/2021 10:41:39 | noted |
| S3-214175 | 24/11/2021 13:24:16 | noted |
| S3-214176 | 24/11/2021 13:55:03 | noted |
| S3-214177 | 23/11/2021 16:45:55 | available |
| S3-214178 | 23/11/2021 16:48:21 | available |
| S3-214180 | 23/11/2021 16:50:13 | available |
| S3-214181 | 23/11/2021 16:23:25 | noted |
| S3-214183 | 24/11/2021 13:50:32 | approved |
| S3-214186 | 24/11/2021 13:52:18 | available |
| S3-214187 | 23/11/2021 17:23:50 | available |
| S3-214188 | 23/11/2021 17:23:54 | available |
| S3-214191 | 23/11/2021 17:24:14 | available |
| S3-214192 | 23/11/2021 17:24:19 | available |
| S3-214193 | 23/11/2021 17:24:27 | available |
| S3-214194 | 23/11/2021 17:25:12 | revised |
| S3-214197 | 23/11/2021 17:26:59 | available |
| S3-214199 | 24/11/2021 13:01:32 | approved |
| S3-214200 | 23/11/2021 14:33:32 | approved |
| S3-214202 | 23/11/2021 17:12:14 | noted |
| S3-214203 | 23/11/2021 17:12:17 | noted |
| S3-214206 | 23/11/2021 14:34:10 | approved |
| S3-214207 | 23/11/2021 14:34:25 | approved |
| S3-214208 | 23/11/2021 14:34:30 | approved |
| S3-214209 | 23/11/2021 14:34:35 | approved |
| S3-214212 | 24/11/2021 10:41:42 | noted |
| S3-214214 | 23/11/2021 16:48:46 | available |
| S3-214215 | 23/11/2021 16:46:03 | available |
| S3-214216 | 23/11/2021 15:43:04 | agreed |
| S3-214217 | 23/11/2021 17:12:22 | agreed |
| S3-214219 | 24/11/2021 10:33:36 | noted |
| S3-214220 | 23/11/2021 16:54:23 | noted |
| S3-214221 | 24/11/2021 10:29:20 | noted |
| S3-214222 | 24/11/2021 10:29:20 | noted |
| S3-214226 | 24/11/2021 13:38:55 | approved |
| S3-214228 | 23/11/2021 13:27:13 | agreed |
| S3-214229 | 23/11/2021 13:27:22 | agreed |
| S3-214230 | 23/11/2021 17:27:03 | agreed |
| S3-214231 | 23/11/2021 13:59:26 | noted |
| S3-214232 | 23/11/2021 13:59:33 | available |
| S3-214233 | 23/11/2021 13:59:41 | available |
| S3-214234 | 23/11/2021 15:36:03 | available |
| S3-214235 | 23/11/2021 15:37:29 | noted |
| S3-214236 | 23/11/2021 15:37:35 | available |
| S3-214238 | 23/11/2021 17:12:34 | noted |
| S3-214240 | 24/11/2021 13:53:28 | noted |
| S3-214241 | 24/11/2021 13:43:56 | noted |
| S3-214242 | 24/11/2021 13:44:35 | noted |
| S3-214243 | 24/11/2021 13:44:34 | noted |
| S3-214244 | 23/11/2021 17:12:40 | noted |
| S3-214246 | 24/11/2021 13:44:36 | noted |
| S3-214247 | 23/11/2021 17:52:11 | noted |
| S3-214249 | 23/11/2021 17:51:01 | approved |
| S3-214252 | 23/11/2021 14:11:02 | approved |
| S3-214253 | 23/11/2021 14:11:06 | approved |
| S3-214254 | 23/11/2021 14:11:07 | approved |
| S3-214255 | 23/11/2021 14:11:14 | approved |
| S3-214256 | 23/11/2021 14:11:41 | approved |
| S3-214257 | 23/11/2021 14:11:28 | available |
| S3-214258 | 23/11/2021 14:11:32 | approved |
| S3-214259 | 23/11/2021 14:11:35 | approved |
| S3-214261 | 23/11/2021 17:19:51 | noted |
| S3-214262 | 23/11/2021 17:19:52 | noted |
| S3-214263 | 24/11/2021 13:55:54 | approved |
| S3-214266 | 24/11/2021 13:40:38 | approved |
| S3-214267 | 24/11/2021 13:40:38 | approved |
| S3-214268 | 24/11/2021 13:40:39 | approved |
| S3-214269 | 23/11/2021 14:51:48 | agreed |
| S3-214271 | 23/11/2021 16:28:33 | approved |
| S3-214273 | 24/11/2021 10:29:40 | noted |
| S3-214274 | 24/11/2021 10:30:30 | noted |
| S3-214275 | 23/11/2021 16:28:27 | noted |
| S3-214276 | 23/11/2021 16:28:48 | noted |
| S3-214277 | 23/11/2021 16:28:28 | noted |
| S3-214278 | 24/11/2021 10:33:40 | noted |
| S3-214279 | 23/11/2021 16:48:01 | noted |
| S3-214280 | 23/11/2021 17:44:16 | noted |
| S3-214281 | 24/11/2021 13:04:52 | noted |
| S3-214282 | 24/11/2021 13:27:19 | approved |
| S3-214283 | 24/11/2021 13:24:16 | noted |
| S3-214285 | 24/11/2021 13:27:20 | approved |
| S3-214286 | 24/11/2021 13:27:28 | approved |
| S3-214287 | 23/11/2021 16:24:12 | approved |
| S3-214287 | 23/11/2021 16:24:43 | noted |
| S3-214288 | 23/11/2021 17:25:46 | agreed |
| S3-214289 | 23/11/2021 17:25:52 | agreed |
| S3-214290 | 23/11/2021 17:26:15 | available |
| S3-214291 | 23/11/2021 17:26:21 | available |
| S3-214292 | 23/11/2021 17:26:46 | available |
| S3-214293 | 23/11/2021 12:16:01 | noted |
| S3-214294 | 24/11/2021 13:53:29 | noted |
| S3-214295 | 23/11/2021 16:12:18 | available |
| S3-214299 | 24/11/2021 10:37:52 | noted |
| S3-214300 | 24/11/2021 10:41:56 | noted |
| S3-214301 | 23/11/2021 16:47:24 | noted |
| S3-214302 | 24/11/2021 13:57:49 | available |
| S3-214303 | 23/11/2021 16:53:44 | noted |
| S3-214304 | 23/11/2021 16:53:47 | approved |
| S3-214305 | 23/11/2021 15:43:10 | available |
| S3-214308 | 23/11/2021 15:57:19 | approved |
| S3-214309 | 23/11/2021 15:57:24 | approved |
| S3-214311 | 24/11/2021 13:53:35 | noted |
| S3-214312 | 23/11/2021 17:52:11 | noted |
| S3-214313 | 24/11/2021 10:41:56 | noted |
| S3-214314 | 24/11/2021 13:53:36 | noted |
| S3-214315 | 23/11/2021 16:48:27 | noted |
| S3-214316 | 23/11/2021 17:27:27 | available |
| S3-214317 | 24/11/2021 10:29:41 | noted |
| S3-214318 | 24/11/2021 10:30:31 | noted |
| S3-214320 | 15/11/2021 14:13:09 | available |
| S3-214322 | 24/11/2021 10:42:03 | noted |
| S3-214323 | 24/11/2021 10:42:03 | noted |
| S3-214324 | 23/11/2021 16:48:53 | noted |
| S3-214325 | 23/11/2021 17:44:21 | noted |
| S3-214326 | 23/11/2021 12:55:01 | available |
| S3-214327 | 23/11/2021 12:56:03 | noted |
| S3-214328 | 23/11/2021 15:40:37 | approved |
| S3-214328 | 23/11/2021 15:40:38 | noted |
| S3-214329 | 23/11/2021 17:27:40 | available |
| S3-214330 | 23/11/2021 15:40:42 | noted |
| S3-214331 | 23/11/2021 17:27:48 | available |
| S3-214332 | 24/11/2021 13:58:02 | noted |
| S3-214333 | 23/11/2021 13:09:36 | noted |
| S3-214334 | 15/11/2021 15:44:12 | approved |
| S3-214334 | 24/11/2021 13:30:03 | revised |
| S3-214335 | 24/11/2021 13:24:51 | approved |
| S3-214336 | 15/11/2021 16:18:22 | approved |
| S3-214337 | 15/11/2021 16:18:47 | approved |
| S3-214338 | 24/11/2021 13:25:13 | approved |
| S3-214339 | 12/11/2021 15:03:18 | withdrawn |
| S3-214339 | 24/11/2021 13:41:24 | approved |
| S3-214340 | 12/11/2021 15:03:38 | withdrawn |
| S3-214340 | 24/11/2021 13:41:28 | approved |
| S3-214341 | 24/11/2021 13:25:00 | approved |
| S3-214342 | 15/11/2021 15:11:29 | approved |
| S3-214342 | 23/11/2021 14:04:42 | available |
| S3-214342 | 23/11/2021 14:44:06 | approved |
| S3-214343 | 24/11/2021 10:28:18 | agreed |
| S3-214344 | 24/11/2021 10:28:29 | agreed |
| S3-214345 | 24/11/2021 10:41:50 | approved |
| S3-214346 | 24/11/2021 10:37:44 | approved |
| S3-214347 | 24/11/2021 10:29:31 | approved |
| S3-214348 | 24/11/2021 10:36:28 | approved |
| S3-214349 | 15/11/2021 16:20:52 | approved |
| S3-214350 | 24/11/2021 13:44:09 | approved |
| S3-214351 | 24/11/2021 13:24:42 | approved |
| S3-214352 | 23/11/2021 17:52:50 | approved |
| S3-214353 | 24/11/2021 13:45:10 | approved |
| S3-214354 | 24/11/2021 10:38:02 | approved |
| S3-214355 | 23/11/2021 17:52:03 | approved |
| S3-214356 | 24/11/2021 13:21:16 | approved |
| S3-214357 | 24/11/2021 13:39:39 | approved |
| S3-214358 | 23/11/2021 17:51:10 | approved |
| S3-214359 | 24/11/2021 13:24:23 | approved |
| S3-214360 | 15/11/2021 16:20:56 | approved |
| S3-214361 | 24/11/2021 13:55:12 | approved |
| S3-214362 | 24/11/2021 08:48:40 | revised |
| S3-214363 | 24/11/2021 10:33:27 | approved |
| S3-214364 | 24/11/2021 13:39:54 | approved |
| S3-214365 | 24/11/2021 13:50:45 | approved |
| S3-214366 | 24/11/2021 13:50:46 | approved |
| S3-214367 | 24/11/2021 13:54:24 | reserved |
| S3-214367 | 29/11/2021 11:08:50 | approved |
| S3-214368 | 24/11/2021 13:20:51 | approved |
| S3-214369 | 24/11/2021 13:53:55 | reserved |
| S3-214369 | 25/11/2021 15:14:24 | agreed |
| S3-214369 | 25/11/2021 15:14:26 | approved |
| S3-214370 | 24/11/2021 13:40:28 | approved |
| S3-214371 | 24/11/2021 13:55:17 | approved |
| S3-214372 | 24/11/2021 10:31:40 | approved |
| S3-214373 | 24/11/2021 13:55:24 | approved |
| S3-214374 | 24/11/2021 10:38:21 | approved |
| S3-214375 | 24/11/2021 10:32:32 | approved |
| S3-214376 | 24/11/2021 10:32:33 | approved |
| S3-214377 | 24/11/2021 13:03:21 | approved |
| S3-214378 | 24/11/2021 13:04:39 | approved |
| S3-214379 | 23/11/2021 17:44:02 | approved |
| S3-214380 | 24/11/2021 13:21:27 | approved |
| S3-214381 | 24/11/2021 13:38:14 | approved |
| S3-214382 | 24/11/2021 13:38:16 | approved |
| S3-214383 | 24/11/2021 13:38:31 | approved |
| S3-214384 | 24/11/2021 13:38:45 | approved |
| S3-214385 | 24/11/2021 10:28:54 | approved |
| S3-214386 | 24/11/2021 10:30:22 | approved |
| S3-214388 | 24/11/2021 13:50:22 | approved |
| S3-214389 | 24/11/2021 13:45:48 | approved |
| S3-214390 | 23/11/2021 17:49:44 | approved |
| S3-214391 | 23/11/2021 17:50:03 | approved |
| S3-214392 | 23/11/2021 17:44:46 | approved |
| S3-214393 | 23/11/2021 17:49:54 | approved |
| S3-214394 | 15/11/2021 16:19:59 | approved |
| S3-214395 | 24/11/2021 10:33:15 | approved |
| S3-214396 | 24/11/2021 10:33:18 | approved |
| S3-214397 | 24/11/2021 13:52:52 | approved |
| S3-214398 | 24/11/2021 13:53:17 | approved |
| S3-214399 | 24/11/2021 13:53:19 | approved |
| S3-214400 | 24/11/2021 13:38:46 | approved |
| S3-214401 | 24/11/2021 13:39:03 | approved |
| S3-214402 | 23/11/2021 17:53:20 | approved |
| S3-214403 | 24/11/2021 13:45:17 | approved |
| S3-214404 | 24/11/2021 12:59:25 | approved |
| S3-214405 | 24/11/2021 13:55:57 | approved |
| S3-214406 | 23/11/2021 17:50:48 | reserved |
| S3-214406 | 29/11/2021 09:32:22 | approved |
| S3-214407 | 24/11/2021 13:02:09 | approved |
| S3-214408 | 23/11/2021 17:45:11 | approved |
| S3-214409 | 24/11/2021 13:00:58 | approved |
| S3-214410 | 24/11/2021 13:40:52 | approved |
| S3-214411 | 24/11/2021 13:40:53 | approved |
| S3-214412 | 24/11/2021 13:05:08 | approved |
| S3-214413 | 24/11/2021 10:31:29 | approved |
| S3-214414 | 24/11/2021 13:56:57 | approved |
| S3-214415 | 18/11/2021 14:35:12 | available |
| S3-214416 | 23/11/2021 14:05:43 | approved |
| S3-214417 | 23/11/2021 14:16:46 | agreed |
| S3-214418 | 23/11/2021 16:03:13 | revised |
| S3-214419 | 23/11/2021 14:52:16 | approved |
| S3-214420 | 23/11/2021 17:18:17 | agreed |
| S3-214421 | 23/11/2021 17:29:15 | agreed |
| S3-214422 | 23/11/2021 16:01:28 | reserved |
| S3-214422 | 25/11/2021 13:29:17 | approved |
| S3-214423 | 23/11/2021 17:29:16 | agreed |
| S3-214424 | 23/11/2021 15:57:31 | agreed |
| S3-214425 | 23/11/2021 14:07:07 | approved |
| S3-214426 | 23/11/2021 15:57:31 | agreed |
| S3-214427 | 23/11/2021 13:09:08 | approved |
| S3-214428 | 23/11/2021 15:43:27 | agreed |
| S3-214429 | 23/11/2021 15:43:32 | agreed |
| S3-214430 | 23/11/2021 17:09:09 | reserved |
| S3-214430 | 25/11/2021 15:14:37 | approved |
| S3-214431 | 23/11/2021 17:27:12 | agreed |
| S3-214432 | 23/11/2021 17:18:28 | agreed |
| S3-214433 | 23/11/2021 17:10:43 | agreed |
| S3-214434 | 23/11/2021 16:52:02 | approved |
| S3-214435 | 23/11/2021 15:39:34 | approved |
| S3-214436 | 23/11/2021 16:12:00 | approved |
| S3-214437 | 23/11/2021 16:26:17 | reserved |
| S3-214437 | 30/11/2021 09:34:02 | approved |
| S3-214438 | 23/11/2021 16:49:10 | approved |
| S3-214439 | 23/11/2021 16:20:40 | approved |
| S3-214440 | 23/11/2021 17:28:57 | approved |
| S3-214441 | 23/11/2021 16:47:06 | approved |
| S3-214442 | 23/11/2021 17:28:58 | approved |
| S3-214443 | 23/11/2021 16:34:35 | approved |
| S3-214444 | 23/11/2021 16:47:18 | approved |
| S3-214445 | 23/11/2021 17:12:50 | approved |
| S3-214445 | 23/11/2021 17:12:51 | agreed |
| S3-214446 | 23/11/2021 16:27:34 | reserved |
| S3-214446 | 30/11/2021 09:34:07 | agreed |
| S3-214447 | 23/11/2021 16:18:42 | approved |
| S3-214448 | 24/11/2021 10:40:54 | approved |
| S3-214448 | 26/11/2021 10:21:54 | withdrawn |
| S3-214449 | 23/11/2021 14:10:25 | reserved |
| S3-214449 | 25/11/2021 15:13:53 | approved |
| S3-214450 | 23/11/2021 14:10:38 | reserved |
| S3-214450 | 25/11/2021 15:13:54 | approved |
| S3-214451 | 23/11/2021 15:42:54 | agreed |
| S3-214452 | 23/11/2021 17:23:21 | agreed |
| S3-214453 | 23/11/2021 16:33:24 | approved |
| S3-214454 | 23/11/2021 15:41:07 | reserved |
| S3-214454 | 29/11/2021 10:01:11 | revised |
| S3-214454 | 29/11/2021 10:01:15 | withdrawn |
| S3-214454 | 30/11/2021 09:33:41 | agreed |
| S3-214455 | 23/11/2021 15:41:16 | reserved |
| S3-214455 | 29/11/2021 10:02:38 | revised |
| S3-214455 | 29/11/2021 10:02:42 | withdrawn |
| S3-214455 | 30/11/2021 09:33:44 | agreed |
| S3-214456 | 23/11/2021 12:15:47 | reserved |
| S3-214456 | 29/11/2021 16:53:37 | approved |
| S3-214457 | 23/11/2021 16:52:11 | reserved |
| S3-214457 | 29/11/2021 08:40:12 | approved |
| S3-214458 | 23/11/2021 13:28:03 | approved |
| S3-214459 | 23/11/2021 16:52:26 | reserved |
| S3-214459 | 29/11/2021 08:40:20 | agreed |
| S3-214460 | 23/11/2021 17:11:01 | agreed |
| S3-214461 | 23/11/2021 14:52:03 | reserved |
| S3-214461 | 25/11/2021 08:44:42 | approved |
| S3-214462 | 23/11/2021 15:41:35 | reserved |
| S3-214462 | 30/11/2021 09:33:53 | approved |
| S3-214463 | 23/11/2021 16:31:37 | approved |
| S3-214464 | 24/11/2021 14:12:51 | reserved |
| S3-214464 | 26/11/2021 09:15:49 | agreed |
| S3-214465 | 23/11/2021 16:32:16 | approved |
| S3-214466 | 23/11/2021 16:32:18 | approved |
| S3-214467 | 23/11/2021 14:33:21 | reserved |
| S3-214467 | 25/11/2021 08:45:34 | agreed |
| S3-214468 | 23/11/2021 14:34:50 | reserved |
| S3-214468 | 25/11/2021 08:46:13 | approved |
| S3-214469 | 23/11/2021 14:29:08 | reserved |
| S3-214469 | 25/11/2021 08:58:56 | agreed |
| S3-214470 | 23/11/2021 16:47:34 | approved |
| S3-214471 | 23/11/2021 16:50:02 | approved |
| S3-214472 | 23/11/2021 16:45:42 | approved |
| S3-214473 | 23/11/2021 16:44:41 | approved |
| S3-214474 | 23/11/2021 17:23:23 | agreed |
| S3-214475 | 23/11/2021 17:23:27 | agreed |
| S3-214476 | 23/11/2021 15:38:20 | reserved |
| S3-214476 | 29/11/2021 08:25:12 | approved |
| S3-214478 | 23/11/2021 16:51:43 | approved |
| S3-214479 | 23/11/2021 16:51:50 | approved |
| S3-214480 | 23/11/2021 16:51:54 | approved |
| S3-214481 | 23/11/2021 14:30:40 | agreed |
| S3-214482 | 23/11/2021 17:11:27 | agreed |
| S3-214483 | 23/11/2021 16:20:04 | approved |
| S3-214484 | 23/11/2021 16:21:14 | approved |
| S3-214485 | 23/11/2021 17:10:51 | agreed |
| S3-214486 | 24/11/2021 14:12:27 | approved |
| S3-214487 | 23/11/2021 17:10:26 | agreed |
| S3-214488 | 23/11/2021 16:49:23 | approved |
| S3-214489 | 23/11/2021 16:28:53 | approved |
| S3-214490 | 23/11/2021 15:36:20 | agreed |
| S3-214491 | 23/11/2021 16:30:27 | agreed |
| S3-214492 | 23/11/2021 17:11:37 | agreed |
| S3-214493 | 23/11/2021 16:52:59 | reserved |
| S3-214493 | 26/11/2021 10:43:15 | approved |
| S3-214494 | 23/11/2021 16:53:04 | reserved |
| S3-214494 | 29/11/2021 08:40:30 | agreed |
| S3-214495 | 23/11/2021 16:49:24 | approved |
| S3-214496 | 23/11/2021 17:12:28 | agreed |
| S3-214497 | 23/11/2021 16:01:42 | approved |
| S3-214498 | 23/11/2021 17:22:24 | agreed |
| S3-214499 | 23/11/2021 17:22:25 | agreed |
| S3-214502 | 23/11/2021 16:29:00 | approved |
| S3-214503 | 23/11/2021 16:29:09 | agreed |
| S3-214504 | 23/11/2021 17:22:56 | agreed |
| S3-214505 | 23/11/2021 12:57:20 | approved |
| S3-214506 | 23/11/2021 17:22:58 | agreed |
| S3-214507 | 23/11/2021 17:23:00 | agreed |
| S3-214508 | 23/11/2021 16:29:25 | reserved |
| S3-214508 | 26/11/2021 09:16:43 | approved |
| S3-214509 | 23/11/2021 16:29:29 | reserved |
| S3-214509 | 29/11/2021 08:40:39 | agreed |
| S3-214510 | 23/11/2021 16:49:30 | reserved |
| S3-214510 | 26/11/2021 09:16:58 | agreed |
| S3-214511 | 23/11/2021 16:49:35 | reserved |
| S3-214511 | 26/11/2021 09:17:23 | approved |
| S3-214512 | 23/11/2021 10:15:14 | revised |
| S3-214513 | 23/11/2021 16:53:31 | approved |
| S3-214514 | 23/11/2021 16:53:35 | approved |
| S3-214515 | 23/11/2021 16:20:31 | approved |
| S3-214516 | 23/11/2021 15:42:18 | agreed |
| S3-214517 | 23/11/2021 17:09:16 | approved |
| S3-214518 | 23/11/2021 17:09:20 | reserved |
| S3-214518 | 25/11/2021 15:16:39 | agreed |
| S3-214519 | 23/11/2021 14:11:56 | reserved |
| S3-214519 | 26/11/2021 08:29:36 | agreed |
| S3-214520 | 23/11/2021 14:12:02 | reserved |
| S3-214520 | 26/11/2021 08:47:20 | agreed |
| S3-214521 | 23/11/2021 16:33:44 | reserved |
| S3-214521 | 26/11/2021 09:17:35 | approved |
| S3-214522 | 23/11/2021 16:33:53 | reserved |
| S3-214522 | 26/11/2021 09:17:45 | approved |
| S3-214523 | 23/11/2021 16:34:00 | reserved |
| S3-214523 | 26/11/2021 09:17:57 | agreed |
| S3-214524 | 23/11/2021 14:53:25 | reserved |
| S3-214524 | 25/11/2021 08:45:00 | agreed |
| S3-214524 | 25/11/2021 12:15:17 | revised |
| S3-214525 | 23/11/2021 17:38:29 | revised |
| S3-214526 | 23/11/2021 14:33:42 | approved |
| S3-214527 | 23/11/2021 14:33:48 | approved |
| S3-214530 | 23/11/2021 17:24:05 | agreed |
| S3-214531 | 23/11/2021 17:24:07 | agreed |
| S3-214532 | 23/11/2021 17:25:35 | agreed |
| S3-214533 | 23/11/2021 17:25:40 | agreed |
| S3-214534 | 23/11/2021 17:25:03 | approved |
| S3-214535 | 23/11/2021 17:11:54 | reserved |
| S3-214535 | 25/11/2021 09:08:19 | agreed |
| S3-214536 | 23/11/2021 14:52:36 | approved |
| S3-214537 | 23/11/2021 14:51:20 | reserved |
| S3-214537 | 29/11/2021 10:36:47 | approved |
| S3-214538 | 23/11/2021 16:10:39 | approved |
| S3-214539 | 23/11/2021 17:41:39 | approved |
| S3-214540 | 24/11/2021 08:52:38 | approved |
| S3-214541 | 24/11/2021 13:30:05 | approved |
| S3-214542 | 26/11/2021 09:14:56 | agreed |
| S3-214543 | 26/11/2021 08:30:57 | approved |
| S3-214544 | 29/11/2021 10:03:05 | reserved |
| S3-214545 | 29/11/2021 10:03:11 | reserved |

## Annex B: List of change requests

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S3-214130 | Adding MACS as an input parameter to the calculation of AK\* to provide freshness | Qualcomm Incorporated, Thales | 33.102 | 0277 | 4 | Rel-17 | F | TEI17 | not pursued |
| S3-214316 | Addition of MAC-S for authentication enhancement | THALES, IDEMIA | 33.102 | 0281 | - | Rel-17 | F | TEI17 | not pursued |
| S3-214071 | Clarification on the emergency test | Huawei, Hisilicon | 33.116 | 0002 | - | Rel-14 | F | SCAS | revised |
| S3-214504 | Clarification on the emergency test | Huawei, Hisilicon | 33.116 | 0002 | 1 | Rel-14 | F | SCAS | agreed |
| S3-214089 | Clarification on the emergency test - Rel15 | Huawei, Hisilicon | 33.116 | 0003 | - | Rel-15 | A | SCAS | revised |
| S3-214506 | Clarification on the emergency test - Rel15 | Huawei, Hisilicon | 33.116 | 0003 | 1 | Rel-15 | A | SCAS | agreed |
| S3-214090 | Clarification on the emergency test - Rel16 | Huawei, Hisilicon | 33.116 | 0004 | - | Rel-16 | A | SCAS | revised |
| S3-214507 | Clarification on the emergency test - Rel16 | Huawei, Hisilicon | 33.116 | 0004 | 1 | Rel-16 | A | SCAS | agreed |
| S3-214524 | Update of BEST for 5G including GBA, 5G GBA, AKMA | KPN N.V. | 33.163 | 0014 | - | Rel-17 | B | BEST\_5G | revised |
| S3-214542 | Update of BEST for 5G including GBA, 5G GBA, AKMA | KPN N.V. | 33.163 | 0014 | 1 | Rel-17 | B | BEST\_5G | agreed |
| S3-213904 | [33.180] R17 Preconfigured group clarification | Motorola Solutions Danmark A/S | 33.180 | 0177 | - | Rel-17 | B | MCXSec2 | agreed |
| S3-213905 | [33.180] R15 KMS message signature clarification | Motorola Solutions Danmark A/S | 33.180 | 0178 | - | Rel-15 | F | eMCSec | agreed |
| S3-213906 | [33.180] R16 KMS message signature clarification (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0179 | - | Rel-16 | A | eMCSec | agreed |
| S3-213907 | [33.180] R17 KMS message signature clarification (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0180 | - | Rel-17 | A | eMCSec | agreed |
| S3-213908 | [33.180] R15 MIKEY signature clarification | Motorola Solutions Danmark A/S | 33.180 | 0181 | - | Rel-15 | F | eMCSec | agreed |
| S3-213909 | [33.180] R16 MIKEY signature clarification (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0182 | - | Rel-16 | A | eMCSec | agreed |
| S3-213910 | [33.180] R17 MIKEY signature clarification (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0183 | - | Rel-17 | A | eMCSec | agreed |
| S3-214269 | [33.180] MCXSec over 5GS | Ericsson, Motorola Solutions | 33.180 | 0184 | - | Rel-17 | B | MCXSec2 | agreed |
| S3-213886 | CR Updating SIP DIGEST IETF references from RFC 2617 to RFC 7616 | T-Mobile USA | 33.203 | 0260 | - | Rel-17 | C | eCryptPr | merged |
| S3-214063 | CR for SIP digest | Huawei, Hisilicon | 33.203 | 0261 | - | Rel-17 | B | eCryptPr | revised |
| S3-214501 | CR for SIP digest | Huawei, Hisilicon | 33.203 | 0261 | 1 | Rel-17 | B | eCryptPr | revised |
| S3-214516 | CR for SIP digest | Huawei, Hisilicon, T-Mobile US, Mavenir | 33.203 | 0261 | 2 | Rel-17 | B | eCryptPr | agreed |
| S3-214307 | Security updates for algorithms and protocols in 33.203 | Ericsson | 33.203 | 0262 | - | Rel-17 | B | eCryptPr | revised |
| S3-214429 | Security updates for algorithms and protocols in 33.203 | Ericsson | 33.203 | 0262 | 1 | Rel-17 | B | eCryptPr | agreed |
| S3-214426 | CR - Security updates for algorithms and protocols for 33.210 | Ericsson | 33.210 | 0072 | - | Rel-17 | B | eCryptPr | agreed |
| S3-214519 | SBA support for the Zh and Zn interfaces | Ericsson, Huawei, HiSilicon, Thales | 33.220 | 0214 | - | Rel-17 | B | GBA\_5G | agreed |
| S3-214133 | Correction to the GBA TLS 1.3 specification | Qualcomm Incorporated | 33.222 | 0055 | 1 | Rel-17 | F | eCryptPr | not pursued |
| S3-214134 | GBA key re-negotiation with TLS 1.3 | Qualcomm Incorporated | 33.222 | 0056 | - | Rel-17 | C | eCryptPr | revised |
| S3-214451 | GBA key re-negotiation with TLS 1.3 | Qualcomm Incorporated | 33.222 | 0056 | 1 | Rel-17 | C | eCryptPr | agreed |
| S3-214520 | SBA support for the Zpn interface | Ericsson, Huawei, HiSilicon, Thales | 33.223 | 0031 | - | Rel-17 | B | GBA\_5G | agreed |
| S3-214072 | Add the threat references in the TS 33.226 | Huawei, Hisilicon | 33.226 | 0001 | - | Rel-17 | F | SCAS\_IMS | agreed |
| S3-214216 | Introducing support of TLS v1.3 in ProSe TS 33.303 | Ericsson | 33.303 | 0135 | - | Rel-17 | B | eCryptPr | agreed |
| S3-214290 | Certificate profile for SCP and SEPP | Ericsson | 33.310 | 0121 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-214291 | Certificate profile for SCP and SEPP | Ericsson | 33.310 | 0122 | - | Rel-17 | A | 5G\_eSBA | not pursued |
| S3-214305 | Security updates for algorithms and protocols in 33.310 | Ericsson | 33.310 | 0123 | - | Rel-17 | B | eCryptPr | not pursued |
| S3-214424 | CR - Security updates for algorithms and protocols for 33.310 | Ericsson | 33.310 | 0124 | - | Rel-17 | B | eCryptPr | agreed |
| S3-214306 | Security updates for algorithms and protocols in 33.328 | Ericsson | 33.328 | 0068 | - | Rel-17 | B | eCryptPr | revised |
| S3-214428 | Security updates for algorithms and protocols in 33.328 | Ericsson | 33.328 | 0068 | 1 | Rel-17 | B | eCryptPr | agreed |
| S3-214138 | Confirming UE supported algorithms in Path Switch procedure | Qualcomm Incorporated | 33.401 | 0700 | - | Rel-17 | C | TEI17 | revised |
| S3-214452 | Confirming UE supported algorithms in Path Switch procedure | Qualcomm Incorporated | 33.401 | 0700 | 1 | Rel-17 | C | TEI17 | agreed |
| S3-214454 | Addition of UPIP for LTE | VODAFONE Group Plc | 33.401 | 0701 | - | Rel-17 | B | UPIP\_SEC\_LTE | agreed |
| S3-214272 | Security for CoAP interfaces in SEAL | Ericsson | 33.434 | 0004 | - | Rel-17 | B | DUMMY | revised |
| S3-214431 | Security for CoAP interfaces in SEAL | Ericsson, Samsung | 33.434 | 0004 | 1 | Rel-17 | B | DUMMY | agreed |
| S3-214302 | Concealing the length of NAI format SUPI exposed in SUCI by padding the SUPI before using non-null schemes | Ericsson | 33.501 | 1198 | 1 | Rel-17 | C | TEI17 | not pursued |
| S3-213890 | Support for NSWO in 5GS | Nokia, Nokia Shanghai Bell,AT&T,Lenovo,Motorola Mobility,Qualcomm Incorporated | 33.501 | 1202 | - | Rel-17 | B | TEI17 | revised |
| S3-214432 | Support for NSWO in 5GS | Nokia, Nokia Shanghai Bell,AT&T,Lenovo,Motorola Mobility,Qualcomm Incorporated, Intel, Samsung | 33.501 | 1202 | 1 | Rel-17 | B | DUMMY | agreed |
| S3-213895 | Security Protection of SQN during AKA re-synchronisations | Nokia, Nokia Shanghai Bell | 33.501 | 1203 | - | Rel-17 | C | TEI17 | not pursued |
| S3-213902 | Padding SUPIs in NAI format with Random Length of Characters for non-null schemes | InterDigital Communications | 33.501 | 1204 | - | Rel-17 | C | TEI17 | not pursued |
| S3-213921 | clarification on optional EAP ID Request in NSSAA Procedure | Huawei, Hisilicon | 33.501 | 1205 | - | Rel-16 | F | eNS | not pursued |
| S3-213922 | Serving network ID in NSSAA | Huawei, Hisilicon | 33.501 | 1206 | - | Rel-16 | F | eNS | not pursued |
| S3-213929 | Verification of NSSAIs for preventing slice attack | CableLabs | 33.501 | 1207 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-213930 | Verification of NSSAIs for preventing slice attack | CableLabs | 33.501 | 1208 | - | Rel-17 | A | 5G\_eSBA | not pursued |
| S3-213977 | TS 33.501 Rel-17 security aspects on MINT feature | LG Electronics Inc. | 33.501 | 1209 | - | Rel-17 | B | TEI17 | not pursued |
| S3-213990 | Integrity check during context transfer scenario 1 | NEC Telecom MODUS Ltd. | 33.501 | 1210 | - | Rel-17 | F | TEI17 | agreed |
| S3-213991 | Integrity check during context transfer scenario 2 | NEC Telecom MODUS Ltd. | 33.501 | 1211 | - | Rel-17 | F | TEI17 | not pursued |
| S3-214014 | Rel17 Clarification about multiple horizontal key derivations upon AMF re-allocation via direct NAS reroute | Huawei, HiSilicon | 33.501 | 1212 | - | Rel-17 | F | TEI17 | not pursued |
| S3-214037 | Correction to Authorization for indirect communication with delegated discovery procedure in rel16 | Huawei,HiSilicon | 33.501 | 1213 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-214474 | Correction to Authorization for indirect communication | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1213 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-214038 | Correction to Authorization for indirect communication with delegated discovery procedure in rel17 | Huawei,HiSilicon | 33.501 | 1214 | - | Rel-17 | A | 5G\_eSBA | revised |
| S3-214475 | Correction to Authorization for indirect communication | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1214 | 1 | Rel-17 | A | 5G\_eSBA | agreed |
| S3-214046 | clarification on handling the security context in MR | Huawei, HiSilicon | 33.501 | 1215 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-214047 | clarification on handling the security context in MR | Huawei, HiSilicon | 33.501 | 1216 | - | Rel-16 | F | 5GS\_Ph1-SEC | not pursued |
| S3-214048 | clarification on handling the security context in MR | Huawei, HiSilicon | 33.501 | 1217 | - | Rel-17 | F | 5GS\_Ph1-SEC | not pursued |
| S3-214056 | removal of unspecified validity of AV-R16 | Huawei, Hisilicon | 33.501 | 1218 | - | Rel-16 | F | 5GS\_Ph1-SEC, TEI16 | revised |
| S3-214498 | removal of unspecified validity of AV-R16 | Huawei, Hisilicon | 33.501 | 1218 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-214057 | removal of unspecified validity of AV-R17 | Huawei, Hisilicon | 33.501 | 1219 | - | Rel-17 | A | 5GS\_Ph1-SEC, TEI16 | revised |
| S3-214499 | removal of unspecified validity of AV-R17 | Huawei, Hisilicon | 33.501 | 1219 | 1 | Rel-17 | A | TEI16 | agreed |
| S3-214058 | clarification on NAS count handling-R16 | Huawei, Hisilicon | 33.501 | 1220 | - | Rel-16 | F | 5GS\_Ph1-SEC, TEI16 | not pursued |
| S3-214059 | clarification on NAS count handling-R17 | Huawei, Hisilicon | 33.501 | 1221 | - | Rel-17 | A | 5GS\_Ph1-SEC, TEI16 | not pursued |
| S3-214070 | New Annex for Edge computing security | Huawei, Hisilicon | 33.501 | 1222 | - | Rel-17 | B | eEDGE\_5GC | revised |
| S3-214503 | New Annex for Edge computing security | Huawei, Hisilicon | 33.501 | 1222 | 1 | Rel-17 | B | eEDGE\_5GC | agreed |
| S3-214073 | Clarification on the TLS mechanism betwee SEPPs | Huawei, Hisilicon | 33.501 | 1223 | - | Rel-17 | F | 5GS\_Ph1-SEC, TEI17 | not pursued |
| S3-214074 | Resolving the EN on the authorization between SCPs | Huawei, Hisilicon | 33.501 | 1224 | - | Rel-17 | F | 5GS\_Ph1-SEC | withdrawn |
| S3-214102 | Resolving the EN on the authorization between SCPs | Huawei, HiSilicon | 33.501 | 1225 | - | Rel-17 | F | 5G\_eSBA | not pursued |
| S3-214118 | SUPI in Notifications from NSSAAF | Ericsson | 33.501 | 1226 | - | Rel-16 | F | eNS | not pursued |
| S3-214122 | SUPI in Notifications from NSSAAF | Ericsson | 33.501 | 1227 | - | Rel-17 | A | eNS | not pursued |
| S3-214165 | Update to Clause 6.15.2.1 Procedure for UE Parameters Update | Lenovo, Motorola Mobility | 33.501 | 1228 | - | Rel-17 | B | eNPN | not pursued |
| S3-214187 | SBA CR CCA in roaming R16 | Nokia, Nokia Shanghai Bell | 33.501 | 1229 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-214188 | SBA CR CCA in roaming R17 | Nokia, Nokia Shanghai Bell | 33.501 | 1230 | - | Rel-17 | A | 5G\_eSBA | not pursued |
| S3-214189 | SBA CR NRF-NRF mutual auth R16 | Nokia, Nokia Shanghai Bell | 33.501 | 1231 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-214530 | SBA CR NRF-NRF mutual auth R16 | Nokia, Nokia Shanghai Bell | 33.501 | 1231 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-214190 | SBA CR NRF-NRF mutual auth R17 | Nokia, Nokia Shanghai Bell | 33.501 | 1232 | - | Rel-17 | A | 5G\_eSBA | revised |
| S3-214531 | SBA CR NRF-NRF mutual auth R17 | Nokia, Nokia Shanghai Bell | 33.501 | 1232 | 1 | Rel-17 | A | 5G\_eSBA | agreed |
| S3-214191 | SBA CR Alignment for Oauth2.0 validation R15 | Nokia, Nokia Shanghai Bell | 33.501 | 1233 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-214192 | SBA CR Alignment for Oauth2.0 validation R16 | Nokia, Nokia Shanghai Bell | 33.501 | 1234 | - | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-214193 | SBA CR Alignment for Oauth2.0 validation R17 | Nokia, Nokia Shanghai Bell | 33.501 | 1235 | - | Rel-17 | A | 5GS\_Ph1-SEC | not pursued |
| S3-214194 | SBA CR NRF deployments R17 | Nokia, Nokia Shanghai Bell | 33.501 | 1236 | - | Rel-17 | F | TEI17 | not pursued |
| S3-214195 | SBA CR N32 for interconnect R16 | Nokia, Nokia Shanghai Bell | 33.501 | 1237 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-214532 | SBA CR N32 for interconnect R16 | Nokia, Nokia Shanghai Bell | 33.501 | 1237 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-214196 | SBA CR N32 for interconnect R17 | Nokia, Nokia Shanghai Bell | 33.501 | 1238 | - | Rel-17 | A | 5G\_eSBA | revised |
| S3-214533 | SBA CR N32 for interconnect R17 | Nokia, Nokia Shanghai Bell | 33.501 | 1238 | 1 | Rel-17 | A | 5G\_eSBA | agreed |
| S3-214197 | IPUPS overload control R17 | Nokia, Nokia Shanghai Bell | 33.501 | 1239 | - | Rel-17 | B | TEI17, UPGF | not pursued |
| S3-214228 | [Rel-16]Clarification on KIAB generation for CP-UP separation | Samsung, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, Intel | 33.501 | 1240 | - | Rel-16 | F | NR\_IAB | agreed |
| S3-214229 | [Rel-17]Clarification on KIAB generation for CP-UP separation | Samsung, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, Intel | 33.501 | 1241 | - | Rel-17 | A | NR\_IAB | agreed |
| S3-214230 | KIAB generation for NR-DC scenario | Samsung, Nokia, Nokia Shanghai Bell, Huawei, Hisilicon, Intel | 33.501 | 1242 | - | Rel-17 | B | TEI17 | agreed |
| S3-214232 | CR to 33.501: Network initiated Primary Authentication | Samsung, NEC | 33.501 | 1243 | - | Rel-17 | B | TEI17 | not pursued |
| S3-214262 | SBA services of AUSF/UDM for NSWO authentication | Ericsson | 33.501 | 1244 | - | Rel-17 | B | DUMMY | noted |
| S3-214288 | Clarification audience of CCA | Ericsson | 33.501 | 1245 | - | Rel-16 | F | 5G\_eSBA | agreed |
| S3-214289 | Clarification audience of CCA | Ericsson | 33.501 | 1246 | - | Rel-17 | A | 5G\_eSBA | agreed |
| S3-214292 | SEPP include and verify source PLMN-ID | Ericsson | 33.501 | 1247 | - | Rel-17 | F | TEI17 | not pursued |
| S3-214295 | Key hierarchy, key distribution and key update in 5MBS | Philips International B.V. | 33.501 | 1248 | - | Rel-17 | B | 5MBS | not pursued |
| S3-214326 | CR to 33.501 to protect additional SoR information (CPSOR-CMCI) | NTT DOCOMO INC. | 33.501 | 1249 | - | Rel-17 | C | eCPSOR\_CON | not pursued |
| S3-214329 | Avoiding unencrypted radio interface data transfer | Vodafone | 33.501 | 1250 | - | Rel-16 | F | 5GS\_Ph1-SEC | not pursued |
| S3-214331 | Avoiding unencrypted radio interface data transfer | Vodafone | 33.501 | 1251 | - | Rel-17 | A | 5GS\_Ph1-SEC | not pursued |
| S3-214446 | Security aspects of eNPN | Ericsson, Huawei, HiSilicon, Qualcomm Incorporated, CableLabs, Charter Communications, Intel, Nokia, Nokia Shanghai Bell | 33.501 | 1252 | - | Rel-17 | B | eNPN | agreed |
| S3-214455 | User Plane Integrity Protection Policy Handling in IW handover from EPS to 5GS | VODAFONE Group Plc | 33.501 | 1253 | - | Rel-17 | B | UPIP\_SEC\_LTE | agreed |
| S3-214459 | Security aspects of User Consent | Huawei, HiSilicon | 33.501 | 1254 | - | Rel-17 | B | UC3S\_SEC | agreed |
| S3-214464 | Security aspects of 5MBS | Huawei, Hisilicon | 33.501 | 1255 | - | Rel-17 | B | 5MBS | agreed |
| S3-214494 | CR for eNA | China Mobile E-Commerce Co. | 33.501 | 1256 | - | Rel-17 | B | eNA\_Ph2 | agreed |
| S3-214518 | Security aspects of MSGin5G | China Mobile | 33.501 | 1257 | - | Rel-17 | B | 5GMSG | agreed |
| S3-214136 | Adding SCAS for the various split gNB cases | Qualcomm Incorporated, Deutsche Telekom AG, AT&T | 33.511 | 0025 | 1 | Rel-17 | B | eSCAS\_5G | not pursued |
| S3-214026 | Correction of testcases in TS 33.511 | Huawei, HiSilicon | 33.511 | 0026 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-214481 | Update testcases to clause 4.2.2.1.18 and 4.2.2.1.19 | Huawei, HiSilicon | 33.511 | 0026 | 1 | Rel-17 | F | eSCAS\_5G | agreed |
| S3-213863 | AMF - Expected result for test case not defined in the specifications | Keysight Technologies UK Ltd | 33.512 | 0014 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-213864 | AMF - Expected result for test case not defined in the specifications | Keysight Technologies UK Ltd | 33.512 | 0015 | - | Rel-17 | A | SCAS\_5G | agreed |
| S3-213865 | AMF - NAS protection algorithm selection in AMF change | Keysight Technologies UK Ltd | 33.512 | 0016 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-213866 | AMF - NAS protection algorithm selection in AMF change | Keysight Technologies UK Ltd | 33.512 | 0017 | - | Rel-17 | A | SCAS\_5G | agreed |
| S3-213875 | 33.512 – Alignment with TS 33.501 Rel-17 | Keysight Technologies UK Ltd | 33.512 | 0018 | - | Rel-17 | F | eSCAS\_5G | revised |
| S3-214417 | 33.512 – Alignment with TS 33.501 Rel-17 | Keysight Technologies UK Ltd | 33.512 | 0018 | 1 | Rel-17 | F | eSCAS\_5G | agreed |
| S3-213878 | AMF – NAS NULL integrity protection clarifications | Keysight Technologies UK Ltd | 33.512 | 0019 | - | Rel-17 | F | eSCAS\_5G | agreed |
| S3-213879 | AMF – precondition bidding down prevention in Xn-handover test | Keysight Technologies UK Ltd | 33.512 | 0020 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-213880 | AMF – precondition bidding down prevention in Xn-handover test | Keysight Technologies UK Ltd | 33.512 | 0021 | - | Rel-17 | A | SCAS\_5G | agreed |
| S3-214115 | Clarification to TEID uniqueness test case | Ericsson | 33.513 | 0006 | - | Rel-16 | F | SCAS\_5G | not pursued |
| S3-214116 | Clarification to TEID uniqueness test case | Ericsson | 33.513 | 0007 | - | Rel-17 | A | SCAS\_5G | not pursued |
| S3-214131 | Corrections to the TLS with AKMA specification | Qualcomm Incorporated | 33.535 | 0098 | 1 | Rel-17 | F | AKMA\_TLS | agreed |
| S3-214132 | Adding TLS 1.3 with AKMA keys | Qualcomm Incorporated | 33.535 | 0099 | 1 | Rel-17 | B | AKMA\_TLS | agreed |
| S3-213898 | Clarification on Kaf lifetime in Clause 5.2 | Futurewei Technologies | 33.535 | 0101 | - | Rel-17 | F | AKMA | agreed |
| S3-213899 | Kaf refresh when lifetime expires | Futurewei Technologies | 33.535 | 0102 | - | Rel-17 | F | AKMA | not pursued |
| S3-213945 | Delete the GBA\_Digest in annex B.1.2.2 | ZTE Corporation | 33.535 | 0103 | - | Rel-17 | F | AKMA\_TLS | revised |
| S3-214491 | Delete the GBA\_Digest in annex B.1.2.2 | ZTE Corporation | 33.535 | 0103 | 1 | Rel-17 | F | AKMA\_TLS | agreed |
| S3-213936 | Clean up for clause 6.6.1 | ZTE Corporation | 33.535 | 0104 | - | Rel-17 | F | AKMA | revised |
| S3-214490 | Clean up for clause 6.6.1 | ZTE Corporation | 33.535 | 0104 | 1 | Rel-17 | F | AKMA | agreed |
| S3-213938 | Kaf expiration | ZTE Corporation | 33.535 | 0105 | - | Rel-17 | F | AKMA | not pursued |
| S3-213939 | Kaf is invalid in AF | ZTE Corporation | 33.535 | 0106 | - | Rel-17 | F | AKMA | not pursued |
| S3-213940 | No AKMA security context in AAnF | ZTE Corporation | 33.535 | 0107 | - | Rel-17 | F | AKMA | not pursued |
| S3-213941 | Sending UE ID to the AKMA AF | ZTE Corporation | 33.535 | 0108 | - | Rel-17 | F | AKMA | agreed |
| S3-213942 | UE stores AKMA subscription data | ZTE Corporation | 33.535 | 0109 | - | Rel-17 | F | AKMA | not pursued |
| S3-214039 | Correction to Deriving AKMA Application Key for a specific AF | Huawei,HiSilicon | 33.535 | 0110 | - | Rel-17 | F | AKMA | not pursued |
| S3-214091 | AKMA roaming | Lenovo, Motorola Mobility | 33.535 | 0111 | - | Rel-17 | B | AKMA | not pursued |
| S3-214233 | CR to 33.535: Refresh of KAKMA and KAF | Samsung, NEC | 33.535 | 0112 | - | Rel-17 | B | AKMA | not pursued |
| S3-214234 | CR to 33.535: Clarification on AKMA Application Key retrieval | Samsung | 33.535 | 0113 | - | Rel-17 | B | AKMA | not pursued |
| S3-214236 | CR to 33.535: AKMA service support for roaming UE | Samsung | 33.535 | 0114 | - | Rel-17 | B | AKMA | not pursued |
| S3-214007 | Propose to mitigate bidding-down attack | Huawei, HiSilicon | 33.536 | 0026 | - | Rel-16 | F | eV2XARC | not pursued |
| S3-214123 | Adding some abbreviations to TR 33.854 | Qualcomm Incorporated | 33.854 | 0001 | - | Rel-17 | D | FS\_UAS\_SEC | revised |
| S3-214343 | Adding some abbreviations to TR 33.854 | Qualcomm Incorporated | 33.854 | 0001 | 1 | Rel-17 | D | FS\_UAS\_SEC | agreed |
| S3-214124 | Corrections to TS 33.854 | Qualcomm Incorporated | 33.854 | 0002 | - | Rel-17 | D | FS\_UAS\_SEC | revised |
| S3-214344 | Corrections to TS 33.854 | Qualcomm Incorporated | 33.854 | 0002 | 1 | Rel-17 | D | FS\_UAS\_SEC | agreed |
| S3-213849 | Test | Test | 33.861 | 0004 | - | Rel-17 | C | NR\_SmallData\_INACTIVE-Core | withdrawn |
| S3-214113 | Editorial and corrections | Ericsson | 33.916 | 0008 | - | Rel-16 | F | SCAS\_5G | revised |
| S3-214420 | Editorial and corrections | Ericsson | 33.916 | 0008 | 1 | Rel-16 | A | SCAS | agreed |
| S3-214421 | Editorial and corrections | Ericsson | 33.916 | 0009 | - | Rel-14 | F | SCAS | agreed |
| S3-214423 | Editorial and corrections | Ericsson | 33.916 | 0010 | - | Rel-15 | A | SCAS | agreed |
| S3-214467 | New Annex with Assets and Threats specific to SCAS SCP | Nokia, Nokia Shanghai Bell | 33.926 | 0049 | - | Rel-17 | B | SCAS\_5G\_SECOP | agreed |
| S3-214469 | Minimum set of functions for SCP | Nokia, Nokia Shanghai Bell | 33.926 | 0050 | - | Rel-17 | B | eSCAS\_5G | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-213806 |  | LS to 3GPP SA3 working group on 5GS Roaming Hubbing | 5GJA | replied to | S3-214456 |
| S3-213807 |  | Reply LS on UE capabilities indication in UPU | C1-212599 | noted | (none) |
| S3-213808 |  | Reply LS on UE capabilities indication in UPU | S2-2106703 | postponed | (none) |
| S3-213809 |  | LS on new parameters for SOR | C1-214118 | postponed | (none) |
| S3-213810 |  | Reply LS on NAS-based busy indication | C1-214917 | noted | (none) |
| S3-213811 |  | LS on user plane integrity protection for UE not supporting NR as primary RAT and supporting E-UTRA | C1-214952 | noted | (none) |
| S3-213812 |  | [FSAG#94 Doc 003] Reply LS on attack preventing NAS procedures to succeed | C1-215153 | noted | (none) |
| S3-213813 |  | Reply LS on Header Enrichment for HTTPS in PFCP | C4-214531 | replied to | S3-214505 |
| S3-213814 |  | LS on Using N32 for interconnect scenarios | C4-214533 | replied to | S3-214427 |
| S3-213815 |  | Stealth Pirating Attack by RACH Rebroadcast Overwriting (SPARROW) | GSMA FSAG | noted | (none) |
| S3-213816 |  | Attack preventing NAS procedures to succeed | GSMA FSAG | withdrawn | S3-214414 |
| S3-213817 |  | Support of UAVs authentication/authorization in 3GPP systems and interfacing with USS/UTM | GSMA | noted | (none) |
| S3-213818 |  | LS on broadcast of NTN GW or gNB position | R1-2106332 | replied to | S3-214336 |
| S3-213819 |  | Reply LS on broadcast of NTN GW or gNB position | S1-213211 | noted | (none) |
| S3-213820 |  | New LS on UE location aspects in NTN | R2-2106543 | replied to | S3-214360 |
| S3-213821 |  | Reply LS on UE location aspects in NTN | R2-2109216 | noted | (none) |
| S3-213822 |  | Reply LS on UE location aspects in NTN | R2-2109217 | replied to | S3-214394 |
| S3-213823 |  | LS on NTN specific user consent | R2-2109199 | replied to | S3-214349 |
| S3-213824 |  | Reply LS on NAS-based busy indication | R2-2108855 | noted | (none) |
| S3-213825 |  | LS Reply to SA3 on security protection on RRCResumeRequest message | R2-2109121 | replied to | S3-214539 |
| S3-213826 |  | LS on UE ID in adaptation layer | R2-2109227 | noted | (none) |
| S3-213827 |  | LS on UP security policy updated by intra-cell handover | R3-214464 | noted | (none) |
| S3-213828 |  | LS to SA3 on support of Pre-shared key derivation for IAB-donor-CU-UP | R3-214465 | replied to | S3-214008 |
| S3-213829 |  | LS on UE capabilities indication in UPU | S2-2101072 | replied to | S3-214447 |
| S3-213830 |  | LS on 5G capabilities exposure for factories of the future | S2-2106683 | noted | (none) |
| S3-213831 |  | Reply LS to 5G-ACIA on 5G capabilities exposure for factories of the future | SP-211134 | noted | (none) |
| S3-213832 |  | LS Response on Clarifications of Network slice selection during AMF Reallocation | S2-2106686 | noted | (none) |
| S3-213833 |  | Reply LS on updating the Credentials Holder controlled lists for SNPN selection | S2-2106705 | postponed | (none) |
| S3-213834 |  | Reply to LS on Resynchronisations | ETSI SAGE | postponed | (none) |
| S3-213835 |  | Attack preventing NAS procedures to succeed | GSMA | withdrawn | (none) |
| S3-213836 |  | Reply LS on Security risk evaluation of using long term key for another key derivation than AKA | ETSI SAGE | noted | (none) |
| S3-213837 |  | LS Reply on QoE report handling at QoE pause | S4-211290 | noted | (none) |
| S3-213838 |  | LS on progress of study items for security on management aspect | S5-214467 | noted | (none) |
| S3-213839 |  | Reply LS on QoE report handling at QoE pause | S5-214519 | noted | (none) |
| S3-213840 |  | LS on new SID on Application Enablement for Data Integrity Verification Service in IOT | S6-211496 | replied to | S3-214337 |
| S3-213841 |  | Reply LS on RAT type for network monitoring | S6-212146 | noted | (none) |
| S3-213842 |  | LS re Penetration Testing of SCAS | GSMA SECAG | noted | (none) |
| S3-213843 |  | LS on information about draft Recommendation ITU-T Y.frd: "Framework and Requirements of Network-oriented Data Integrity Verification Service based on Blockchain in Future Network” | ITU-T SG13 | withdrawn | (none) |
| S3-213844 |  | LS on new liaison officer from ITU-T SG17 | ITU-T SG17 | noted | (none) |
| S3-213845 |  | Reply LS on Inclusive language review | SP-211140 | noted | (none) |
| S3-213848 |  | Reply LS on EAS and ECS identifiers | S6-212490 | postponed | (none) |
| S3-213850 |  | LS-Reply on Home Network triggered re-authentication | C4-215437 | postponed | (none) |
| S3-213867 |  | Reply LS to LS on SBA for GBA | S2-2107793 | noted | (none) |
| S3-213868 |  | Reply LS on proposed NSWO architecture | S2-2107859 | postponed | (none) |
| S3-213869 |  | LS Response on full registration request message to be rerouted via RAN | S2-2107860 | noted | (none) |
| S3-213870 |  | Reply LS on NSAC procedure | S2-2107942 | noted | (none) |
| S3-213871 |  | Reply LS on Layer-3 UE-to-Network Relay authentication and authorization | S2-2107976 | replied to | S3-214443 |
| S3-213872 |  | LS on Multicast paging with TMGI | S2-2107995 | postponed | (none) |
| S3-213873 |  | LS on IMEI for Non-Public Networks/Private Networks without using USIM | S2-2108093 | noted | (none) |
| S3-213874 |  | LS on MINT functionality for Disaster Roaming | S2-2108172 | replied to | S3-214342 |
| S3-213876 |  | Reply LS on user plane integrity protection for UE not supporting NR as primary RAT and supporting E-UTRA | S2-2107794 | noted | (none) |
| S3-213877 |  | LS to 3GPP SA3 working group on NRF mutual authentication in roaming scenario | GSMA | replied to | S3-214425 |
| S3-213885 |  | LS on question and feedback about the EVEX Work Item | C3-215316 | noted | (none) |
| S3-214333 |  | Reply LS from 5GJA to 3GPP CT4, SA2 and SA3 on Using N32 for Interconnect Scenarios | GSMA | noted | (none) |
| S3-214415 |  | Attack preventing NAS procedures to succeed | GSMA | replied to | S3-214414 |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-214008 | Reply LS on support of Pre-shared key derivation for IAB-donor-CU-UP | RAN3 | - | S3-213828 |
| S3-214336 | Reply to LS on broadcast of NTN GW or gNB position | RAN1, SA1 | SA3-LI | S3-213818 |
| S3-214337 | LS on reply to SA6 about new SID on Application Enablement for Data Integrity Verification Service in IOT | 3GPP TSG SA WG6, 3GPP TSG SA WG1 | 3GPP TSG SA | S3-213840 |
| S3-214342 | Reply LS on LS on MINT functionality for Disaster Roaming | SA2 | SA5, CT1, CT4, CT6, RAN2, TSG SA, TSG CT, TSG RAN | S3-213874 |
| S3-214349 | Reply LS on NTN specific User Consent | RAN2 | RAN3, SA2 | S3-213823 |
| S3-214360 | Reply LS on UE location aspects in NTN | RAN2 | RAN1, RAN3, SA2, SA3-LI, CT1 |  |
| S3-214394 | Reply LS (S3-213822) on UE location aspects in NTN | RAN2 | CT1, SA2, SA3-LI, RAN3 | S3-213822 |
| S3-214414 | Reply to: Attack preventing NAS procedures to succeed | GSMA | CT1 | S3-214415 |
| S3-214416 | Follow up LS on MINT functionality for Disaster Roaming | SA WG2 | SA5, CT1, CT4, CT6, RAN2, TSG SA, TSG CT, TSG RAN | S3-213874 |
| S3-214425 | Reply LS to GSMA on NRF mutual authentication in roaming scenario | GSMA NRG 5GMRR | - | S3-213877 |
| S3-214427 | Reply-LS on Using N32 for interconnect scenarios | CT4 | - | S3-213814 |
| S3-214443 | Reply LS on Layer-3 UE-to-Network Relay authentication and authorization | SA2 | CT1 | S3-213871 |
| S3-214447 | Reply LS on UE capabilities indication in UPU | SA2, CT1 | - | S3-213829 |
| S3-214456 | Reply LS on 5GS roaming hubbing | GSMA 5GJA, GSMA DESS | CT4 | S3-213806 |
| S3-214458 | LS on QoE report handling at QoE pause | RAN2 | SA4, SA5 | - |
| S3-214462 | LS on LTE User Plane Integrity Protection | RAN2, RAN3 | SA,RAN |  |
| S3-214505 | Reply LS on Header Enrichment for HTTPS in PFCP | CT4 | - | S3-213813 |
| S3-214538 | LS to SA2 on secondary authentication for multicast PDU session | SA2 | - | - |
| S3-214539 | LS Reply on security protection of RRCResumeRequest message | RAN2, RAN3 | - | S3-213825 |
| S3-214541 | LS on conclusions of authentication methods for initial access for onboarding | SA2 | - | - |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S3-214487 | New Study of privacy of identifiers over radio access | InterDigital, Inc., Apple, AT&T, CableLabs, CATT, CISA ECD, Convida Wireless, Ericsson, Futurewei, Intel, Johns Hopkins University APL, Mavenir, Motorola Mobility, Nokia, Nokia Shanghai Bell, Peraton Labs, Phillips, Samsung, Telefonica, T-Mobile US, US NI | SID new |
| S3-214535 | FS\_eSBA\_SEC - SID revision | Nokia, Nokia Shanghai Bell | SID revised |
| S3-214433 | New WID on Non-Seamless WLAN offload Authentication in 5GS | Nokia, Nokia Shanghai Bell | WID new |
| S3-214445 | New WID on Authentication enhancements in 5GS | Ericsson | WID new |
| S3-214460 | WID on enhanced security for Phase 2 network slicing | Huawei, Hisilicon, Lenovo, Motorola Mobility, China Mobile, China Unicom, CATT, ZTE, CAICT, Xiaomi | WID new |
| S3-214482 | New WID on Security Assurance Specification for Management Function (MnF) | Huawei, HiSilicon | WID new |
| S3-214485 | Mission Critical R18 WID | Motorola Solutions Danmark A/S | WID new |
| S3-214492 | New WID on SECAM and SCAS for 3GPP virtualized network products | China Mobile | WID new |
| S3-214496 | New WID for SEAL security enhancement | Samsung | WID new |
| S3-214217 | Update to WID on 3GPP profiles for cryptographic algorithms and security protocols | Ericsson | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-214362 | 33.857 | 0.8.0 | draft TR 33.857 v0.9.0 |
| S3-214364 | 33.867 | 0.8.0 | Draft TR33.867 |
| S3-214368 | 33.850 | 0.9.0 | TR 33.850 for MBS security |
| S3-214369 | 33.875 | 0.5.0 | TR 33.875-050 eSBA Security |
| S3-214373 | 33.874 | 0.5.0 | draft\_TR33.874-050 |
| S3-214402 | 33.846 | 0.14.0 | Draft TR 33.846 v0.14.0 Study on authentication enhancements in the 5G System (5GS) |
| S3-214403 | 33.864 | 0.7.0 | Draft TR 33.864 v0.7.0 Study on the security of Access and Mobility Management Function (AMF) re-allocation |
| S3-214404 | 33.847 | 0.9.0 | TR 33.847 v0.9.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS |
| S3-214405 | 33.881 | 0.4.0 | draft TR 33.881 |
| S3-214406 | 33.848 | 0.10.0 | draft TR 33.848 |
| S3-214408 | 33.809 | 0.17.0 | Draft TR 33.809 |
| S3-214410 | 33.866 | 0.8.0 | draft TR 33.866 0.8.0 |
| S3-214413 | 33.839 | 0.9.0 | Draft TR 33.839 |
| S3-214468 | 33.522 | 0.4.0 | 33.522 - 5G Security Assurance Specification (SCAS); Service Communication Proxy (SECOP) |
| S3-214508 | 33.558 | 0.3.0 | Draft TS 33.558 |
| S3-214511 | 33.503 | 0.2.0 | Draft TS 33.503 v0.2.0 Security Aspects of Proximity based Services (ProSe) in the 5G System (5GS) |
| S3-214521 | 33.256 | 0.3.0 | Draft TS 33.256 |
| S3-214537 | 33.520 | 0.3.0 | Draft TS 33.520 |
| S3-214540 | 33.857 | 0.9.0 | draft TR 33.857 v0.9.0 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Mr. | Aggarwal | Chaitanya | Nokia Germany | Nokia UK |
| Mr. | Ahmad | Saad | InterDigital, Inc. | InterDigital Belgium. LLC |
| Mr. | Ai | Ming | CATT | Datang Mobile Com. Equipment |
| Dr. | Aldén | Magnus | Telia Company AB | Telia Company AB |
| Mr. | Andreas | Joerg | BMWi | BMWi |
| Mr. | Ashton | Tim | National Technical Assistance | National Technical Assistance |
| Dr. | Baboescu | Florin | BROADCOM CORPORATION | BROADCOM CORPORATION |
| Dr. | Baskaran | Sheeba Backia Mary | Motorola Mobility Germany GmbH | Motorola Mobility Germany GmbH |
| Dr. | Ben Henda | Noamen | Huawei Technologies Sweden AB | Huawei Technologies Sweden AB |
| Mr. | Bhatt | Rakshesh P. | Nokia Corporation | Nokia Solutions & Networks (I) |
| Mr. | Bjerrum | Bo Holm | Nokia Corporation | Nokia Corporation |
| Ing. | Bouchmal | Faiza | Casa Systems Inc. | Casa Systems Inc. |
| Mr. | Brusilovsky | Alec | InterDigital, Inc. | InterDigital, Inc. |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Mr. | Canterbury | Mark | Tencastle Limited | National Technical Assistance |
| Ms. | Carducci | Candace | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Castagno | Mauro | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mrs. | Chaponniere | Lena | Qualcomm CDMA Technologies | Qualcomm Wireless GmbH |
| Ms. | Chen | Yuqin | Apple R&D | Apple Poland Sp. z.o.o. |
| Mr. | Choi | Hongjin | Samsung R&D Institute UK | Samsung Electronics Benelux BV |
| Mr. | Choyi | Vinod Kumar | Verizon UK Ltd | Verizon UK Ltd |
| Mr. | Chuberre | Nicolas | THALES | THALES |
| Mr. | Cichonski | Jeffrey | NIST | NIST |
| Ms. | Comak | Pinar | Ericsson LM | Ericsson-LG Co., LTD |
| Mr. | Cong | Shi | Guangdong OPPO Mobile Telecom. | Dongguan OPPO Precision Elec. |
| Dr. | Corbett | Cherita | Johns Hopkins University APL | Johns Hopkins University APL |
| Mrs. | Costa | Luciana | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mr. | Davydov | Stepan | JSRPC Kryptonite | JSRPC Kryptonite |
| Mr. | Dees | Walter | Philips International B.V. | Philips International B.V. |
| Dr. | Dhanda | Mungal Singh | Qualcomm Technologies Int | Qualcomm Austria RFFE GmbH |
| Mr. | Doerr | Johannes | BMWi | BMWi |
| Dr. | Dolan | Michael | FirstNet | FirstNet |
| Mr. | Doubrava | Michael | BMWi | BMWi |
| Mr. | Dressler | Christian | ZITiS | ZITiS |
| Mr. | Druta | Dan | AT&T GNS Belgium SPRL | AT&T GNS Belgium SPRL |
| Mr. | Eisenschmid | Michael | ZITiS | ZITiS |
| Dr. | Ekdahl | Patrik | Ericsson LM | Ericsson LM |
| Dr. | Escott | Adrian | Qualcomm CDMA Technologies | Qualcomm CDMA Technologies |
| Mr. | Evans | Tim P. | VODAFONE Group Plc | VODAFONE Group Plc |
| Mr. | Everett | Jared | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Faccin | Stefano | QUALCOMM JAPAN LLC. | Qualcomm Finland RFFE Oy |
| Dr. | Falk | Rainer | Siemens AG | Siemens AG |
| Mr. | Feng | Cheng | Datang Mobile Com. Equipment | Datang Mobile Com. Equipment |
| Mr. | Ferdi | Samir | InterDigital, Inc. | InterDigital, Europe, Ltd. |
| Mr. | Fischer | Bastian | BMWi | BMWi |
| Miss | Flygare | Helena | Ericsson LM | Ericsson India Private Limited |
| Mr. | Gabay | David | MITRE Corporation | MITRE Corporation |
| Ing. | Gallo | Luigi | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mr. | Gamishev | Todor | Orange | Orange |
| Mrs. | Gan | Lu | OPPO | OPPO |
| Dr. | Gao | Feng | China Unicom | China Unicom |
| Dr. | Garcia-Morchon | Oscar | Philips International B.V. | Philips International B.V. |
| Mr. | Gautam | Deepanshu | Samsung R&D Institute UK | Samsung Electronics GmbH |
| Mr. | Goldberg | Martin | U.S. National Security Agency | U.S. National Security Agency |
| Mr. | Grewal | Rajpreet Singh | NTIA | NTIA |
| Miss | Griboedova | Ekaterina | JSRPC Kryptonite | JSRPC Kryptonite |
| Prof. | Guan | Ke | BJTU | BJTU |
| Ms. | Guo | Ivy | Apple Computer Trading Co. Ltd | Apple (UK) Limited |
| Mr. | Guo | Longhua | HUAWEI TECH. GmbH | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Gupta | Varini | Samsung R&D Institute India | Samsung Research America |
| Mr. | Gustafsson | Sune | Ericsson LM | Ericsson Telecomunicazioni SpA |
| Mr. | Hanhisalo | Markus | Ericsson LM | Ericsson LM |
| Mr. | Hjelm | Bjorn | Verizon UK Ltd | Verizon Sweden |
| Mr. | Hoffpauir | Dusty | Charter Communications, Inc | Charter Communications, Inc |
| Mr. | Hu | Li | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies France |
| Miss | Huang | Xiaoting | China Mobile Com. Corporation | China Mobile E-Commerce Co. |
| Mr. | Ianev | Iskren | NEC Europe Ltd | NEC Europe Ltd |
| Miss | Jerichow | Anja | Nokia Germany | Nokia Germany |
| Dr. | Jost | Christine | Ericsson LM | Ericsson Hungary Ltd |
| Dr. | Karakoc | Ferhat | Ericsson LM | Ericsson GmbH, Eurolab |
| Mr. | Kaushik | Ashutosh | Samsung R&D Institute UK | Samsung R&D Institute India |
| Miss | Kedalagudde | Meghashree D | Intel Deutschland GmbH | Intel Deutschland GmbH |
| Dr. | Keesmaat | Iko | TNO | KPN N.V. |
| Mr. | Kenyon | Bradley | Hewlett-Packard Enterprise | Hewlett-Packard Enterprise |
| Dr. | Khan | Mohsin | Ericsson LM | Oy LM Ericsson AB |
| Mr. | Kim | Anbin | LG Electronics France | LG Electronics France |
| Mr. | Kim | Dongjoo | LG Electronics Inc. | LG Electronics Inc. |
| Dr. | Kim | Hongil | Qualcomm Incorporated | Qualcomm Korea |
| Dr. | Kim | Hyunsook | LG Electronics Inc. | LG Electronics Inc. |
| Dr. | Kim | Joonwoong | SK Telecom | SK Telecom |
| Mr. | Kolekar | Abhijeet | Intel Corporation (UK) Ltd | Intel Sweden AB |
| Ms. | Koser | Elizabeth | U.S. National Security Agency | U.S. National Security Agency |
| Mr. | Kumar | Lalith | Samsung R&D Institute India | Samsung Electronics Czech |
| Dr. | Kunz | Andreas | Motorola Mobility Germany GmbH | Motorola Mobility Germany GmbH |
| Mr. | Lair | Yannick | Nokia France | Nokia Italy |
| Mr. | Laitinen | Mika | Airbus | Airbus |
| Mr. | Leadbeater | Alex | BT plc | BT plc |
| Dr. | Lee | Duckey | Samsung R&D Institute UK | Samsung Electronics Iberia SA |
| Dr. | Lee | Soo Bum | Qualcomm Incorporated | QUALCOMM JAPAN LLC. |
| Mr. | Lee | Xiaoyang | CISA ECD | CISA ECD |
| Mr. | Lehtovirta | Vesa | Ericsson LM | L.M. Ericsson Limited |
| Dr. | Lei | Ao | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI Technologies Japan K.K. |
| Dr. | Lei | Zander (Zhongding) | HuaWei Technologies Co., Ltd | HiSilicon Technologies Co. Ltd |
| Mr. | Leung | Nikolai | Qualcomm CDMA Technologies | Qualcomm Technologies Int |
| Mr. | Li | Fei | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Telecommunication India |
| Mr. | Li | He | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Tech.(UK) Co.. Ltd |
| Mr. | Li | Michael | Ericsson LM | Ericsson France S.A.S |
| Dr. | Liang | Haoran | Xiaomi Communications | Xiaomi Communications |
| Ms. | Liang | Huarui | Apple GmbH | Apple France |
| Dr. | Liao | Ellen C. | Intel | Intel China Ltd. |
| Mr. | Libunao | Gerardo | Verizon UK Ltd | Verizon UK Ltd |
| Dr. | Lim | Taehyung | Samsung R&D Institute UK | Samsung Electronics Polska |
| Mr. | Lipsky | Jeff | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | Liu | Chang | China Mobile Research Inst. | China Mobile Group Device Co. |
| Dr. | Liu | Fuwen | China Mobile Com. Corporation | China Mobile (Hangzhou) Inf. |
| Mr. | Liu | Yuze | ZTE Corporation | ZTE Corporation |
| Mr. | Lopes | Luis | Qualcomm Technologies Int | Qualcomm communications-France |
| Mr. | Loushine | Mike | AT&T | AT&T |
| Mr. | Lu | Jinghao | CBN | CBN |
| Ms. | Lu | Wei | Xiaomi Technology | Xiaomi Technology |
| Mr. | Luetzenkirchen | Thomas | Intel Deutschland GmbH | Intel Korea, Ltd. |
| Mr. | M Dhanasekaran | Ranganathan | Nokia Corporation | Nokia Hungary |
| Miss | MA | Jie | China Mobile Research Inst. | CMDI |
| Mr. | Manganahalli Jayaprakash | Sandesh | TNO | KPN N.V. |
| Mr. | Miller | James | InterDigital Germany GmbH | InterDigital Germany GmbH |
| Mr. | Miyamoto | Yoshihiro | NEC Corporation | NEC Corporation |
| Dr. | Muhanna | Ahmad | Mavenir | Mavenir |
| Mr. | Nair | Suresh | Nokia Germany | Nokia |
| Mr. | Nakarmi | Prajwol Kumar | Ericsson Limited | Nanjing Ericsson Panda Com Ltd |
| Mr. | Naslund | Mats | NDRE | NDRE |
| Mr. | Nayak | Ashok Kumar | Samsung R&D Institute India | Samsung R&D Institute UK |
| Mr. | Norton | Mark | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | O'Driscoll | James | NCSC | NCSC |
| Mr. | Palanigounder | Anand | Qualcomm Technologies Int | Qualcomm India Pvt Ltd |
| Ms. | Parambath Sasi | NIvedya | Samsung R&D Institute India | Samsung Electronics France SA |
| Dr. | Pashalidis | Andreas | BMWi | BMWi |
| Mr. | Pattan | Basavaraj (Basu) | Samsung R&D Institute UK | Samsung Electronics Romania |
| Mr. | Pätzold | Thomas | Deutsche Telekom AG | Deutsche Telekom AG |
| Mrs. | Pauliac | Mireille | THALES | THALES |
| Mr. | Peinado | German | Nokia Germany | Nokia Poland |
| Mr. | PENG | Jin | ZTE Corporation | ZTE Corporation |
| Mr. | Pica | Francesco | Qualcomm Incorporated | Qualcomm Tech. Netherlands B.V |
| Miss | Ping | Jing | Nokia Germany | Nokia Korea |
| Mr. | PINTO | BARUCH | Allot Ltd | Allot Ltd |
| Mr. | Pudney | Chris | VODAFONE Group Plc | Vodafone GmbH |
| Mr. | Qi | Minpeng | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | Rajadurai | Rajavelsamy | Samsung R&D Institute UK | Samsung Electronics Co., Ltd |
| Ms. | Rajendran | Rohini | Samsung R&D Institute India | BEIJING SAMSUNG TELECOM R&D |
| Mrs. | Rong | Wu | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Device Co., Ltd |
| Mr. | Rutkowski | Tony | CIS | CIS |
| Ing. | Sánchez | Antonio | KEYSIGHT TECHNOLOGIES | Keysight Technologies UK Ltd |
| Mrs. | Schmitz | Yvonne | BMWi | BMWi |
| Mr. | Schumacher | Greg | T-Mobile USA | T-Mobile USA |
| Mr. | Shah | Sapan | Samsung R&D Institute India | Harman GmbH |
| Dr. | Shailendra | Samar | Intel Technology India Pvt Ltd | Intel Technology India Pvt Ltd |
| Mr. | Shan | Changhong | Intel Corporation (UK) Ltd | Intel K.K. |
| Mr. | Shang | Chao | Xidian University | Xidian University |
| Mr. | Shang | Chao | Xidian University | Xidian University |
| Ms. | Shen | Jun | China Telecommunications | China Telecommunications |
| Mr. | Smith | Brian | Bell Mobility | Bell Mobility |
| Dr. | Son | Jungje | Samsung R&D Institute UK | Samsung Electronics Nordic AB |
| Mrs. | song | hua | China Mobile Com. Corporation | China Mobile International Ltd |
| Mr. | Soosahabi | Reza | KEYSIGHT TECHNOLOGIES | KEYSIGHT TECHNOLOGIES |
| Dr. | Speicher | Sebastian | Qualcomm Wireless GmbH | QUALCOMM Europe Inc. - Spain |
| Mr. | Starsinic | Michael | InterDigital, Inc. | Convida Wireless |
| Dr. | Staufer | Markus | Nokia Germany | Nokia Belgium |
| Mr. | Stojanovski | Saso | Intel Deutschland GmbH | Intel Finland Oy |
| Mr. | Syrett | Mark | Hewlett-Packard Enterprise | Hewlett-Packard Enterprise |
| Mr. | Tamura | Toshiyuki | NEC Europe Ltd | NEC Corporation |
| Mr. | Tang | CanHui | Xidian University | Xidian University |
| Mr. | Tangudu | Narendranath Durga | Samsung R&D Institute India | SAMSUNG R&D INSTITUTE JAPAN |
| Mr. | Tiwari | Kundan | NEC Corporation | NEC Telecom MODUS Ltd. |
| Mr. | Torrecilla | Joaquin | Keysight Technologies UK Ltd | Keysight Technologies UK Ltd |
| Mr. | Trygar | Tobey | Peraton Labs | Peraton Labs |
| Dr. | Tsiatsis | Vlasios | Ericsson LM | Ericsson España S.A. |
| Miss | tunali | aysegul | ASELSAN | ASELSAN |
| Mrs. | Vahidi | Helena | Ericsson LM | Ericsson Japan K.K. |
| Dr. | Vanderveen | Michaela | MITRE Corporation | MITRE Corporation |
| Mr. | Vujcic | Dragan | IDEMIA | IDEMIA |
| Dr. | Wan | Tao | CableLabs | CableLabs |
| Mr. | wang | chenran | Xidian University | Xidian University |
| Ms. | Wang | Donna | Verizon UK Ltd | Verizon Sweden |
| Dr. | Wang | Hucheng | CATT | Datang Linktester Technology |
| Dr. | Wang | Zhibi | InterDigital Communications | InterDigital Communications |
| Mr. | Whorlow | Colin | NCSC | HOME OFFICE |
| Ms. | Wifvesson | Monica | Ericsson LM | Ericsson Limited |
| Mr. | Wong | Marcus | Futurewei | Futurewei Technologies |
| Mr. | Woodward | Tim | Motorola Solutions Danmark A/S | Motorola Solutions Danmark A/S |
| Miss | Wu | Yizhuang | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Japan K.K. |
| Mr. | Xie | Zhenhua | vivo Mobile Communication Co., | vivo Mobile Communication (S) |
| Mr. | Xing | TianQi | China Unicom | China Unicom |
| Ms. | Xing | Zhen | ZTE Corporation | ZTE Corporation |
| Miss | Xiong | Lihui | Guangdong OPPO Mobile Telecom. | Guangdong OPPO Mobile Telecom. |
| Miss | Xu | Hui | CATT | CICT |
| Miss | Yan | Ru | China Mobile Com. Corporation | China Mobile (Suzhou) Software |
| Dr. | Yao | Ge | China Unicom | China Unicom |
| Mrs. | Yeltekin | Yasemin | ASELSAN | ASELSAN |
| Mr. | You | Shilin | ZTE Corporation | ZTE Corporation |
| Dr. | Zhang | Bo | HUAWEI TECHNOLOGIES Co. Ltd. | HuaWei Technologies Co., Ltd |
| Miss | Zhang | Ling | CATT | GOHIGH DATA NETWORKS TECH. |
| Mr. | Zhou | Wei | CATT | CATT |
| Ms. | Zhuang | xiaojun | China Mobile Com. Corporation | China Mobile M2M Company Ltd. |
| Mr. | Zisimopoulos | Haris | Qualcomm Technologies Int | QUALCOMM Europe Inc. - Italy |
| Dr. | Zugenmaier | Alf | NTT DOCOMO INC. | NTT DOCOMO INC. |

## Annex G: List of future meetings

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Title | Start date | End date (OP) | Town | Country | Reference |
| SA3#106e | 14/02/2022 | 25/02/2022 | Online | N/A |  |
| SA3#106e-Bis | 04/04/2022 | 08/04/2022 | Online | N/A |  |