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

**Meeting Report  
for  
TSG SA WG3  
meeting #101-e:**

**Electronic meeting, Online, 09/11/2020 to 20/11/2020**

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## 1 Agenda and Meeting Objectives

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

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

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

to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Information Statement and the Licensing declaration forms. The attention of the delegates to the meeting was drawn to the fact that 3GPP activities were subject to all applicable antitrust and competition laws and that compliance with said laws was therefore required by any participant of the meeting, including the Chairman and Vice-Chairmen and were invited to seek any clarification needed with their legal counsel. The leadership would conduct the present meeting with impartiality and in the interests of 3GPP. Delegates were reminded that timely submission of work items in advance of TSG/WG meetings was important to allow for full and fair consideration of such matters.

**S3-202800 Agenda**

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

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

**S3-202803 Process for SA3#101e meeting**

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

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

**S3-203479 Process and agenda presentation for SA3#101e**

*Type: other For: Information  
 Source: WG chair*

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

## 2 Meeting Reports

**S3-202801 Report from SA3#100Bis-e meeting**

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

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

**S3-202802 Report from SA3#100-e meeting**

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

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

**S3-202804 Report from last SA**

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

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

## 3 Reports and Liaisons from other Groups

**S3-202815 TCG progress - report from TCG rapporteur**

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

**Abstract:**

This contribution provides a brief incremental summary of the progress in TCG Working Groups as of October 2020.

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

**S3-202821 LS response to TCCA on Public Safety**

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

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

**S3-202823 Use of 256-bit block Rijndael in Milenage-256**

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

**Decision:** The document was **replied to in S3-203550**.

**S3-202824 Answer to ETSI SAGE LS dated 5 June 2020 regarding the use of 256-bit block Rijndael in Milenage-256**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: TCA (Trusted Connectivity Alliance)*

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

**S3-202830 LS on MuDe functionality**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-206625*

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

**S3-202831 LS on AUSF/UDM discovery based on SUCI information**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-204337*

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

**S3-202836 LS on propagation of user consent related information during Xn inter-PLMN handover**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-204378*

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

**S3-202851 Observations and questions on 256-bit security goals**

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

**Decision:** The document was **replied to in S3-203500**.

**S3-202852 Independent evaluation of SNOW V**

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

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

**S3-202853 LS on Physical layer assisted lightweight AKA (PL-AKA) protocol for the Internet of things**

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

**Decision:** The document was **replied to in S3-203492**.

**S3-202854 Comments on physical layer assisted lightweight AKA (PL-AKA) protocol for the Internet of things**

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

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

**S3-202855 LS on threats of service disruption, SIP message alteration and content eavesdropping in 5G networks**

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

**Decision:** The document was **replied to in S3-203498**.

**S3-202856 LS on Security requirements for vertical services supporting Ultra Reliable and Low Latency Communication (URLLC) in the 5G non-public networks**

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

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

**S3-202857 LS on SG17 new work item 'Security Methodology for Zero-Touch Massive IoT Deployment**

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

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

**S3-202858 LS on SG17 new work item “Security aspect on electric vertical take-off and landing (eVTOL) vehicle”**

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

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

**S3-202859 LS on draft ITU-T X.nsom-sec ‘Security requirements and architecture for network slice management and orchestration’**

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

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

**S3-202860 LS on the stage 2 aspects of MINT (SP-200654 / C1-205332)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-200880*

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

**S3-202862 LS on Rel-17 schedule**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-200888*

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

**S3-203079 Reply LS to ETSI SAGE on use of 256-bit block Rijndael in Milenage-256**

*Type: LS out For: Agreement  
 to ETSI SAGE, TCA  
 Source: THALES*

**Decision:** The document was **revised to S3-203550**.

**S3-203291 Discussion on performance requirements of crypto algorithms in virtualized gNB implementations**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-203326 Notes from joint ETSI SAGE / SA3 conf call on 256bit keys**

*Type: other For: Information  
 Source: NTT DOCOMO*

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

**S3-203338 256-bit algorithms based on SNOW 3G or SNOW V**

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

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

**S3-203492 LS on Physical layer assisted lightweight AKA (PL-AKA) protocol for the Internet of things**

*Type: LS out For: Approval  
 to ITU-T SG17, cc GSMA, ETSI CYBER, ETSI SAGE, ISO/IEC JTC 1/SC 27/WG 3, 3GPP RAN1, 3GPP RAN2  
 Source: Ericsson España S.A.*

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

**S3-203498 Reply LS on threats of service disruption, SIP message alternation and content eavesdropping in 5G networks**

*Type: LS out For: Approval  
 to ITU-T SG17, cc GSMA FASG  
 Source: SK Telecom*

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

**S3-203500 Reply LS on Observations and questions on 256-bit security goals**

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

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

**S3-203550 Reply LS to ETSI SAGE on use of 256-bit block Rijndael in Milenage-256**

*Type: LS out For: Agreement  
 to ETSI SAGE, TCA  
 Source: THALES*

(Replaces S3-203079)

**Abstract:**

Reply LS to ETSI SAGE on use of 256-bit block Rijndael in Milenage-256

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

### 4.1 Security aspects of 5G System - Phase 1 (Rel-15)

**S3-202808 NRF authorization during NF service consumer Access Token Get Request**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0955 Cat: A (Rel-16)  
  
 Source: Mavenir*

**Abstract:**

Fixing the call flow text by removing the optionality of authorization during access token get request

**Decision:** The document was **revised to S3-203497**.

**S3-202809 NRF authorization during NF service consumer Access Token Get Request**

*Type: CR For: Approval  
 33.501 v15.10.0 CR-0956 Cat: F (Rel-15)  
  
 Source: Mavenir*

**Abstract:**

Fixing the call flow text by removing the optionality of authorization during access token get request

**Decision:** The document was **revised to S3-203496**.

**S3-203053 Clarification on PLMN ID verification in Rel15**

*Type: CR For: Approval  
 33.501 v15.10.0 CR-0973 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**S3-203054 Clarification on PLMN ID verification in Rel16**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0974 Cat: A (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-203144 Verification of Serving Network Name in AUSF**

*Type: CR For: Agreement  
 33.501 v15.10.0 CR-0985 Cat: F (Rel-15)  
  
 Source: Ericsson*

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

**S3-203145 SEPP including PLMN-ID and verification of Serving Network Name in AUSF**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0986 Cat: A (Rel-16)  
  
 Source: Ericsson*

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

**S3-203056 Modification policy clarification in Rel15**

*Type: CR For: Approval  
 33.501 v15.10.0 CR-0975 Cat: F (Rel-15)  
  
 Source: Huawei, Hisilicon*

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

**S3-203057 Modification policy clarification in Rel16**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0976 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-203142 Corrections for the NRF token request service**

*Type: CR For: Agreement  
 33.501 v15.10.0 CR-0983 Cat: F (Rel-15)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203537**.

**S3-203143 Corrections for the NRF token request service**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0984 Cat: A (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203538**.

**S3-203194 R15 NFc and NFp alignment in static authorization**

*Type: CR For: Agreement  
 33.501 v15.10.0 CR-0997 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203195 R16 NFc and NFp alignment in static authorization**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0998 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203196 R15 Access Token Get Service - removal of ambigiouty**

*Type: CR For: Agreement  
 33.501 v15.10.0 CR-0999 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203197 R16 Access Token Get Service - removal of ambigiouty**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1000 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203198 R15 Authorization of NF service access - removal of ambigious terminology**

*Type: CR For: Agreement  
 33.501 v15.10.0 CR-1001 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203199 R16 Authorization of NF service access - removal of ambigious terminology**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1002 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203200 R15 Authorization of NF service access - service requst process steps**

*Type: CR For: Agreement  
 33.501 v15.10.0 CR-1003 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203502**.

**S3-203201 R16 Authorization of NF service access - service requst process steps**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1004 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203503**.

**S3-202889 NAS COUNT storage for multiple PLMN**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0961 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Clarifications for NAS COUNT storage for 3GPP access and non-3GPP access during multiple PLMN registration

**Decision:** The document was **revised to S3-203476**.

**S3-203020 Secondary authentication revocation rel15**

*Type: CR For: Approval  
 33.501 v15.10.0 CR-0967 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-203515**.

**S3-203021 Secondary authentication revocation rel16**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0968 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-203516**.

**S3-203249 [Rel-15]Correction to derivation of KSN for dual connectivity**

*Type: CR For: Agreement  
 33.501 v15.10.0 CR-1010 Cat: F (Rel-15)  
  
 Source: Samsung*

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

**S3-203250 [Mirror]Correction to derivation of KSN for dual connectivity**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1011 Cat: A (Rel-16)  
  
 Source: Samsung*

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

**S3-202813 Clarification to SEAF**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0835 rev 3 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201873)

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

**S3-202814 Clarification to SEAF**

*Type: CR For: Agreement  
 33.501 v15.10.0 CR-0957 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202805 Draft LS: Misalignment on requirement for access token request between TS 29.510 and 33.501**

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

**Abstract:**

An LS to CT4 to request CT4 align TS29.510 with TS33.501

**Decision:** The document was **revised to S3-203495**.

**S3-202806 SA3 and CT4 misalignment on token request for Discovery and NFManagement**

*Type: discussion For: Endorsement  
 33.501 v..  
 Source: Mavenir*

**Abstract:**

Discussion paper for highlighting the misalignment between CT4 TS29.510 and TS33.501.

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

**S3-202807 NRF authorization during NF service consumer Access Token Get Request**

*Type: draftCR For: Approval  
 33.501 v15.10.0  
 Source: Mavenir*

**Abstract:**

Fixing the call flow text by removing the optionality of authorization during access token get request

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

**S3-202832 LS on Misalignments on HTTP message format over N32-f**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-204409*

**Decision:** The document was **replied to in S3-203522**.

**S3-203006 Draft LS to CT6 on the NAS COUNTs storage**

*Type: LS out For: Approval  
 to CT6  
 Source: Apple*

**Decision:** The document was **revised to S3-203534**.

**S3-203052 Discussion on verification of PLMN ID**

*Type: discussion For: Discussion  
 Source: Huawei, Hisilicon*

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

**S3-203055 Reply LS on Misalignments on HTTP message format over N32-f**

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

**Decision:** The document was **revised to S3-203522**.

**S3-203071 Discussion paper on TAU reject issue during MME handover**

*Type: discussion For: Decision  
 Source: Huawei, Hisilicon*

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

**S3-203141 [DRAFT] reply-LS on Misalignments on HTTP message format over N32-f**

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

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

**S3-203322 Proposal to introduce draft-ietf-emu-rfc5448bis to TS 33.501**

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

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

**S3-203324 Notes from conf call on NAS COUNT storage**

*Type: other For: Information  
 Source: NTT DOCOMO*

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

**S3-203325 Notes from second conf call on NAS COUNT storage**

*Type: other For: Information  
 Source: NTT DOCOMO*

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

**S3-203476 NAS COUNT storage for multiple PLMN**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0961 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-202889)

**Abstract:**

Clarifications for NAS COUNT storage for 3GPP access and non-3GPP access during multiple PLMN registration

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

**S3-203495 LS: Misalignment on requirement for access token request between TS 29.510 and 33.501**

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

(Replaces S3-202805)

**Abstract:**

An LS to CT4 to request CT4 align TS29.510 with TS33.501

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

**S3-203496 NRF authorization during NF service consumer Access Token Get Request**

*Type: CR For: Approval  
 33.501 v15.10.0 CR-0956 rev 1 Cat: F (Rel-15)  
  
 Source: Mavenir, Nokia, Nokia Shanghai Bell*

(Replaces S3-202809)

**Abstract:**

Fixing the call flow text by removing the optionality of authorization during access token get request

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

**S3-203497 NRF authorization during NF service consumer Access Token Get Request**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0955 rev 1 Cat: A (Rel-16)  
  
 Source: Mavenir, Nokia, Nokia Shanghai Bell*

(Replaces S3-202808)

**Abstract:**

Fixing the call flow text by removing the optionality of authorization during access token get request

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

**S3-203502 R15 Authorization of NF service access - service requst process steps**

*Type: CR For: Agreement  
 33.501 v15.10.0 CR-1003 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203200)

**Abstract:**

S3-203200-r2

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

**S3-203503 R16 Authorization of NF service access - service requst process steps**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1004 rev 1 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203201)

**Abstract:**

S3-203201-r3

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

**S3-203515 Secondary authentication revocation rel15**

*Type: CR For: Approval  
 33.501 v15.10.0 CR-0967 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-203020)

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

**S3-203516 Secondary authentication revocation rel16**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0968 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-203021)

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

**S3-203523 Modification policy clarification in Rel16**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0976 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-203534 LS to CT6 on the NAS COUNTs storage**

*Type: LS out For: Approval  
 to CT6  
 Source: Apple*

(Replaces S3-203006)

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

**S3-203537 Corrections for the NRF token request service**

*Type: CR For: Agreement  
 33.501 v15.10.0 CR-0983 rev 1 Cat: F (Rel-15)  
  
 Source: Ericsson*

(Replaces S3-203142)

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

**S3-203538 Corrections for the NRF token request service**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0984 rev 1 Cat: A (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-203143)

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

### 4.2 Security Assurance Specification for 5G (Rel-16)

**S3-202900 Update the pre-condition in clause 4.2.2.1.1, 4.2.2.1.2, 4.2.2.1.9, 4.2.2.1.10 and 4.2.2.1.11**

*Type: CR For: Agreement  
 33.511 v16.5.0 CR-0018 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-203085 Correction of test case for access token verification failure handling in different PLMN**

*Type: CR For: Approval  
 33.117 v16.5.0 CR-0066 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203539**.

**S3-203086 Reference of general SBA/SBI aspect in 33.512**

*Type: CR For: Approval  
 33.512 v16.3.0 CR-0008 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203103 Reference of general SBA/SBI aspect in 33.513**

*Type: CR For: Approval  
 33.513 v16.1.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203104 Reference of general SBA/SBI aspect in 33.514**

*Type: CR For: Approval  
 33.514 v16.3.0 CR-0004 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203105 Reference of general SBA/SBI aspect in 33.515**

*Type: CR For: Approval  
 33.515 v16.2.0 CR-0006 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203107 Reference of general SBA/SBI aspect in 33.516**

*Type: CR For: Approval  
 33.516 v16.1.0 CR-0002 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203108 Reference of general SBA/SBI aspect in 33.519**

*Type: CR For: Approval  
 33.519 v16.1.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203539 Correction of test case for access token verification failure handling in different PLMN**

*Type: CR For: Approval  
 33.117 v16.5.0 CR-0066 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203085)

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

### 4.3 Mission Critical security (Rel-16)

**S3-202834 Reply LS on ETSI Plugtest reports**

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

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

**S3-202880 [33.180] R16 Fix terminology**

*Type: CR For: Agreement  
 33.180 v16.4.0 CR-0151 Cat: F (Rel-16)  
  
 Source: Airbus*

**Decision:** The document was **revised to S3-203551**.

**S3-203551 [33.180] R16 Fix terminology**

*Type: CR For: Agreement  
 33.180 v16.4.0 CR-0151 rev 1 Cat: F (Rel-16)  
  
 Source: Airbus*

(Replaces S3-202880)

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

**S3-202881 [33.180] R17 Fix terminology**

*Type: CR For: Agreement  
 33.180 v17.0.0 CR-0152 Cat: A (Rel-17)  
  
 Source: Airbus*

**Decision:** The document was **revised to S3-203552**.

**S3-203552 [33.180] R17 Fix terminology**

*Type: CR For: Agreement  
 33.180 v17.0.0 CR-0152 rev 1 Cat: A (Rel-17)  
  
 Source: Airbus*

(Replaces S3-202881)

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

### 4.4 Enhancements for Security aspects of Common API Framework for 3GPP Northbound APIs (Rel-16)

### 4.5 Security of the enhancement to the 5GC location services (Rel-16)

### 4.6 Security Aspects of the 5G Service Based Architecture (Rel-16)

**S3-202883 Re-using of access token in indirect communication with delegated discovery**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0907 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201802)

**Decision:** The document was **revised to S3-203499**.

**S3-203148 Token-based authorization for subsequent service requests in model D**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0989 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203146 Resolving Editor's Note on SCP performing token-based authorization on behalf of Network Functions**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0987 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203536**.

**S3-203147 Resolving Editor's Notes on SCP authorization**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0988 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203203 NF-SCP Authorization**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1006 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203501**.

**S3-203204 SCP-SCP Authorization**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1007 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203153 Clarification on format for subjectAltName**

*Type: CR For: Agreement  
 33.310 v16.5.0 CR-0115 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203205 Making NF instance id in SBA certificate profile mandatory to support**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1008 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203050 NF information addition in SBA certificate profile**

*Type: CR For: Approval  
 33.310 v16.5.0 CR-0114 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-203049 Input parameters of access token request addition and verification**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0972 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203520**.

**S3-203290 Token-based authorization for indirect communication in roaming case**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1014 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203149 Assertions: partial protection of the message**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0990 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203150 Assertions: protection of service response**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0991 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203151 Assertion requirement by the producer**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0992 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203152 Access token requirement by the producer**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0993 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203202 R16 NF Service Consumer authentication**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1005 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203499 Re-using of access token in indirect communication with delegated discovery**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0907 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Huawei, HiSilicon, CableLabs*

(Replaces S3-202883)

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

**S3-203501 NF-SCP Authorization**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1006 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Ericsson*

(Replaces S3-203203)

**Abstract:**

S3-203203-r5

Merger with 3147

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

**S3-203536 Resolving Editor's Note on SCP performing token-based authorization on behalf of Network Functions**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0987 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-203146)

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

### 4.7 Authentication and key management for applications based on 3GPP credential in 5G (Rel-16)

**S3-202869 CR Removal of AKMA changes to TS 33.501 in Rel-16**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0958 Cat: F (Rel-16)  
  
 Source: China Mobile*

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

**S3-202870 CR Removal of AKMA changes to TS 33.220 in Rel-16**

*Type: CR For: Approval  
 33.220 v16.2.0 CR-0205 Cat: F (Rel-16)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S3-203488**.

**S3-202872 CR for AKMA changes to TS 33.501 in Rel-17**

*Type: CR For: (not specified)  
 33.501 v16.4.0 CR-0959 Cat: B (Rel-17)  
  
 Source: China Mobile International Ltd*

**Decision:** The document was **revised to S3-203486**.

**S3-202873 CR for AKMA changes to TS 33.220 in Rel-17**

*Type: CR For: Approval  
 33.220 v16.2.0 CR-0206 Cat: B (Rel-17)  
  
 Source: China Mobile*

**Decision:** The document was **revised to S3-203487**.

**S3-203211 Update of the reference point interface names of AKMA**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0053 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203493**.

**S3-202903 AAnF selection by AF**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0037 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-202967 Adding AAnF selection**

*Type: CR For: Approval  
 33.535 v16.1.0 CR-0048 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

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

**S3-203213 AKMA Anchor Function selection clause**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0054 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-202902 A new A-KID derivation after a new primary authentication**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0036 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-202904 AKMA key lifetime expiration in clause 5.2**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0038 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-202905 Kakma and A-KID refresh in clause 6.1**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0039 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-202906 Kausf storing in AUSF**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0040 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-202963 Adding details of AKMA key generation in the UE**

*Type: CR For: Approval  
 33.535 v16.1.0 CR-0047 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203482**.

**S3-203029 Storage of the AKMA keys in the UE**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0050 Cat: B (Rel-16)  
  
 Source: THALES*

**Abstract:**

Storage of the AKMA keys in the UE

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

**S3-202908 Rewording Kaf refresh**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0042 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-202909 the lifetime of KAF expiration**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0043 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-202901 Clarification of RID in clause 6.1 for AKMA**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0035 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-202907 Resolution of editor's note on other parameter in clause 6.3**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0041 Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-202910 UDM notifies AAnF AKMA context removal**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0044 Cat: B (Rel-16)  
  
 Source: ZTE Corporation*

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

**S3-202944 Corrections of clause 6.1**

*Type: CR For: Approval  
 33.535 v16.1.0 CR-0045 Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **revised to S3-203535**.

**S3-202945 Editorial modifications of AKMA**

*Type: CR For: Approval  
 33.535 v16.1.0 CR-0046 Cat: F (Rel-16)  
  
 Source: CATT*

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

**S3-203037 AKMA: Adding missing service definition**

*Type: CR For: Approval  
 33.535 v16.1.0 CR-0051 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203518**.

**S3-203191 Sending UE identifier to the AKMA AF**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0052 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**S3-203192 Addition of UDM sending GPSI of the UE for AKMA**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0996 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**S3-203025 Aware of AF‘s AKMA service capability in the UE**

*Type: CR For: Approval  
 33.535 v16.1.0 CR-0049 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-202833 LS on information of stage 3 aspects for AKMA**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: CP-202255*

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

**S3-202847 LS on Reference point interface names for AKMA**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2008003*

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

**S3-202848 Regulatory LI compliance of AKMA**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S3i200477*

**Decision:** The document was **replied to in S3-202950**.

**S3-202868 New WID on removal AKMA from Rel-16**

*Type: WID new For: Agreement  
 Source: China Mobile*

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

**S3-202871 Revised WID of AKMA**

*Type: WID revised For: (not specified)  
 Source: China Mobile*

**Decision:** The document was **revised to S3-203485**.

**S3-202950 Reply LS on Regulatory LI compliance of AKMA**

*Type: LS out For: Approval  
 to SA3-LI  
 Source: China Mobile*

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

**S3-203181 Specifying existing Ua protocols for use with AKMA**

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

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

**S3-203212 Discussion on the AAnF selection**

*Type: discussion For: Endorsement  
 33.535 v..  
 Source: Ericsson*

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

**S3-203482 Adding details of AKMA key generation in the UE**

*Type: CR For: Approval  
 33.535 v16.1.0 CR-0047 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-202963)

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

**S3-203485 Revised WID of AKMA**

*Type: WID revised For: (not specified)  
 Source: China Mobile*

(Replaces S3-202871)

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

**S3-203486 CR for AKMA changes to TS 33.501 in Rel-17**

*Type: CR For: (not specified)  
 33.501 v16.4.0 CR-0959 rev 1 Cat: B (Rel-17)  
  
 Source: China Mobile International Ltd*

(Replaces S3-202872)

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

**S3-203487 CR for AKMA changes to TS 33.220 in Rel-17**

*Type: CR For: Approval  
 33.220 v16.2.0 CR-0206 rev 1 Cat: B (Rel-17)  
  
 Source: China Mobile*

(Replaces S3-202873)

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

**S3-203488 CR Removal of AKMA changes to TS 33.220 in Rel-16**

*Type: CR For: Approval  
 33.220 v16.2.0 CR-0205 rev 1 Cat: F (Rel-16)  
  
 Source: China Mobile*

(Replaces S3-202870)

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

**S3-203493 Update of the reference point interface names of AKMA**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0053 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-203211)

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

**S3-203494 LS on AKMA Anchor Function selection**

*Type: LS out For: Approval  
 to SA2  
 Source: Ericsson España S.A.*

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

**S3-203518 AKMA: Adding missing service definition**

*Type: CR For: Agreement  
 33.535 v16.1.0 CR-0051 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-203037)

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

**S3-203535 Corrections of clause 6.1**

*Type: CR For: Approval  
 33.535 v16.1.0 CR-0045 rev 1 Cat: F (Rel-16)  
  
 Source: CATT*

(Replaces S3-202944)

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

### 4.8 Evolution of Cellular IoT security for the 5G System (Rel-16)

**S3-202825 LS on 5G-GUTI reallocation after paging of a UE in 5GMM-IDLE mode with suspend indication**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-200967*

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

**S3-202861 LS on 5G GUTI re-allocation**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-200883*

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

### 4.9 Security of the Wireless and Wireline Convergence for the 5G system architecture (Rel-16)

**S3-203169 Issues during authentication for N5GC and N5CW**

*Type: discussion For: Endorsement  
 33.501 v..  
 Source: Ericsson*

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

**S3-203171 Authentication method selection for N5CW**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0995 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203311 Selecting the authentication method for devices that do not support 5GC NAS over WLAN access**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-1016 Cat: F (Rel-16)  
  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

In the special case when a N5CW device attempts to access 5GC, the UDM shall not select 5G-AKA because the N5CW device does not support NAS and, therefore, does not support 5G-AKA. In this case, the UDM shall only select an EAP-based authentication method

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

**S3-202887 Error correction and clarification of Annex O**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0960 Cat: F (Rel-16)  
  
 Source: CableLabs*

**Decision:** The document was **revised to S3-203507**.

**S3-203170 Authentication method selection and SUPI retrieval for N5GC**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0994 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203309 Anonymous SUCI for N5GC**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-1015 Cat: F (Rel-16)  
  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

Correction of authentication procedures for N5GC devices to enable use of anonmymous SUCI.

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

**S3-203507 Error correction and clarification of Annex O**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0960 rev 1 Cat: F (Rel-16)  
  
 Source: CableLabs*

(Replaces S3-202887)

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

### 4.10 Security aspects of Enhancement of Network Slicing (Rel-16)

**S3-202826 LS on NSSAA at inter-PLMN mobility**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-206508*

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

**S3-202842 LS on Clarification on AAA-Server address**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-203452*

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

**S3-202843 LS Response on Clarification on AAA-Server address**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2007826*

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

**S3-203022 Slice privacy protection in NSSAA related procedure**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0969 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-203023 Correction to the Nnssaaf\_NSSAA\_RevocationNotification services**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0970 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-203024 clean up to the Nnssaaf\_NSSAA services**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0971 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-203038 LS reply on clarification on AAA server address**

*Type: LS out For: Approval  
 to CT4, SA2  
 Source: Huawei, Hisilicon*

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

**S3-203098 Discussion on SN-ID in NSSAA**

*Type: discussion For: Discussion  
 33.501 v..  
 Source: Huawei, HiSilicon*

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

**S3-203099 Serving network ID in NSSAA**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0979 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-203100 Discussion on validity period of NSSAA results**

*Type: discussion For: Discussion  
 33.501 v..  
 Source: Huawei, HiSilicon*

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

**S3-203101 validity peirod of NSSAA result**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0980 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-203102 Clarification on binding of NSSAI and UE ID at AAA-S**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0981 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-203106 Addessing EN on transmitting NSSAI to AAA**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0982 Cat: F (Rel-16)  
  
 Source: China Mobile*

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

**S3-203257 Discussion on the need for a validity timer**

*Type: discussion For: Endorsement  
 33.501 v..  
 Source: Ericsson*

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

**S3-203258 Discussion on the need for SN ID at the AAA-S side**

*Type: discussion For: Endorsement  
 33.501 v..  
 Source: Ericsson*

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

**S3-203259 [DRAFT] LS on the need for SN-ID in NSSAA procedure**

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

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

### 4.11 Security for NR Integrated Access and Backhaul (Rel-16)

### 4.12 Security aspects of SEAL (Rel-16)

### 4.13 Security Aspects of 3GPP support for Advanced V2X Services (Rel-16)

**S3-202827 LS on the re-keying procedure for NR SL**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2005978*

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

**S3-202828 Reply LS on the re-keying procedure for NR SL**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-206576*

**Decision:** The document was **replied to in S3-203483**.

**S3-202882 Corrections on security establishment**

*Type: CR For: Approval  
 33.536 v16.1.0 CR-0017 Cat: F (Rel-16)  
  
 Source: InterDigital, Europe, Ltd.*

**Abstract:**

This is a resubmission of CR 0002 33.536 S3-201609 already agreed during SA3#100-e (S3-201609 r3) but withdrawn from CR pack SP-200705 (see Chairman report to SA3 from plenary SA#89-e).

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

**S3-202952 Clarification on cross-layer indication triggered by updating the security context**

*Type: CR For: Approval  
 33.536 v16.1.0 CR-0019 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203480**.

**S3-202884 Security policy handling**

*Type: CR For: Approval  
 33.536 v16.1.0 CR-0018 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202953 Propose to improve the user plane security policy handling logic**

*Type: CR For: Approval  
 33.536 v16.1.0 CR-0020 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203481**.

**S3-203051 Clarification on the security policy handling**

*Type: CR For: Approval  
 33.536 v16.1.0 CR-0021 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203521**.

**S3-203480 Clarification on cross-layer indication triggered by updating the security context**

*Type: CR For: Approval  
 33.536 v16.1.0 CR-0019 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon, LG Electronics*

(Replaces S3-202952)

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

**S3-203481 Proposal for improvement of the user plane security policy handling logic**

*Type: CR For: Approval  
 33.536 v16.1.0 CR-0020 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon, Interdigital*

(Replaces S3-202953)

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

**S3-203483 Reply LS on the re-keying procedure for NR SL**

*Type: LS out For: Approval  
 to RAN2, CT1  
 Source: LG Electronics Inc.*

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

**S3-203521 Clarification on the security policy handling**

*Type: CR For: Approval  
 33.536 v16.1.0 CR-0021 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-203051)

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

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

**S3-203219 Living document for TS 33.220: SBA support for Zh and Zn interfaces**

*Type: draftCR For: Approval  
 33.220 v16.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203545**.

**S3-203220 Living document for TS 33.223: SBA support for Zpn**

*Type: draftCR For: Approval  
 33.223 v16.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203546**.

**S3-203221 pCR to living document for TS 33.223: Resolving EN for private ID in Nbsp\_Gba\_PushInfo service operation response**

*Type: draftCR For: Approval  
 33.220 v16.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203508**.

**S3-203222 LS on the SBA for GBA**

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

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

**S3-203223 pCR to living document for TS 33.220: Resolving EN for GBA AKA**

*Type: draftCR For: Approval  
 33.220 v16.2.0  
 Source: Ericsson*

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

**S3-203224 pCR to living document for TS 33.223: Resolving EN for GBA AKA**

*Type: draftCR For: Approval  
 33.223 v16.0.0  
 Source: Ericsson*

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

**S3-203225 pCR to living document for TS 33.220: Resolving EN for HSS**

*Type: draftCR For: Approval  
 33.220 v16.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203509**.

**S3-203226 pCR to living document for TS 33.223: Resolving EN for HSS**

*Type: draftCR For: Approval  
 33.223 v16.0.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203510**.

**S3-203508 pCR to living document for TS 33.223: Resolving EN for private ID in Nbsp\_Gba\_PushInfo service operation response**

*Type: draftCR For: Approval  
 33.220 v16.2.0  
 Source: Ericsson*

(Replaces S3-203221)

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

**S3-203509 pCR to living document for TS 33.220: Resolving EN for HSS**

*Type: draftCR For: Approval  
 33.220 v16.2.0  
 Source: Ericsson*

(Replaces S3-203225)

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

**S3-203510 pCR to living document for TS 33.223: Resolving EN for HSS**

*Type: draftCR For: Approval  
 33.223 v16.0.0  
 Source: Ericsson*

(Replaces S3-203226)

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

**S3-203545 Living document for TS 33.220: SBA support for Zh and Zn interfaces**

*Type: draftCR For: Approval  
 33.220 v16.2.0  
 Source: Ericsson*

(Replaces S3-203219)

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

**S3-203546 Living document for TS 33.223: SBA support for Zpn**

*Type: draftCR For: Approval  
 33.223 v16.0.0  
 Source: Ericsson*

(Replaces S3-203220)

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

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

**S3-203072 IMS SCAS: living doc for the threats**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203528**.

**S3-203073 IMS SCAS: new test case on synchronization failure handling**

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

**Decision:** The document was **revised to S3-203529**.

**S3-203074 IMS SCAS: adding threats related to IMS signalling transport**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203530**.

**S3-203075 IMS SCAS: new test case on the IMS signaling protection**

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

**Decision:** The document was **revised to S3-203531**.

**S3-203076 IMS SCAS: adding threats related to Resynchronization failure**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203532**.

**S3-203077 IMS SCAS: Adding the general requirements**

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

**Decision:** The document was **revised to S3-203533**.

**S3-203078 IMS SCAS: Adding the assets and threats of the new NFs**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

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

**S3-203111 SCAS IMS: Removal of the sub-clause for SBA**

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

**Decision:** The document was **revised to S3-203540**.

**S3-203113 Threat of bidding down attack on security association**

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

**Decision:** The document was **revised to S3-203541**.

**S3-203114 SCAS IMS: New Sub-Test Case against Bidding-down on Security Association**

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

**Decision:** The document was **revised to S3-203542**.

**S3-203517 Draft TS 33.226 v0.3.0**

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

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

**S3-203528 IMS SCAS: living doc for the threats**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-203072)

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

**S3-203529 IMS SCAS: new test case on synchronization failure handling**

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

(Replaces S3-203073)

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

**S3-203530 IMS SCAS: adding threats related to IMS signalling transport**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-203074)

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

**S3-203531 IMS SCAS: new test case on the IMS signaling protection**

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

(Replaces S3-203075)

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

**S3-203532 IMS SCAS: adding threats related to Resynchronization failure**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-203076)

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

**S3-203533 IMS SCAS: Adding the general requirements**

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

(Replaces S3-203077)

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

**S3-203540 SCAS IMS: Removal of the sub-clause for SBA**

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

(Replaces S3-203111)

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

**S3-203541 Threat of bidding down attack on security association**

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

(Replaces S3-203113)

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

**S3-203542 SCAS IMS: New Sub-Test Case against Bidding-down on Security Association**

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

(Replaces S3-203114)

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

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

**S3-202972 living CR to TS 33.511**

*Type: draftCR For: Approval  
 33.511 v16.5.0  
 Source: Huawei, Hisilicon*

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

**S3-202973 Living CR toTR33.926 for eSCAS**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203512**.

**S3-202974 Living CR to TS33.117**

*Type: draftCR For: Approval  
 33.117 v16.5.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203513**.

**S3-203059 Threats related to security enforcement configuration for TSC services**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203524**.

**S3-203060 New test case on security enforcement configuration for TSC services**

*Type: draftCR For: Approval  
 33.514 v16.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203525**.

**S3-203069 Threats related to security enforcement configuration for 5G LAN services**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203526**.

**S3-203070 New test case on security enforcement configuration for 5G LAN services**

*Type: draftCR For: Approval  
 33.514 v16.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203527**.

**S3-203115 Updated Threat Analysis of Incorrect Verification of Access Tokens**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203543**.

**S3-203117 Update of the Test Case for Access Token Verification Failure Handling**

*Type: draftCR For: Approval  
 33.117 v16.5.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203544**.

**S3-203118 Threat analysis of inter-PLMN routing using the incorrect reference**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203119 Test case for correct handling of inter-PLMN routing**

*Type: draftCR For: Approval  
 33.517 v16.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203140 Threat analysis of target API root tampering**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203157 Test case for correct handling of the custom HTTP header with PRINS security**

*Type: draftCR For: Approval  
 33.517 v16.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203512 Living CR toTR33.926 for eSCAS**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-202973)

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

**S3-203513 Living CR to TS33.117**

*Type: draftCR For: Approval  
 33.117 v16.5.0  
 Source: Huawei, Hisilicon*

(Replaces S3-202974)

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

**S3-203524 Threats related to security enforcement configuration for TSC services**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-203059)

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

**S3-203525 New test case on security enforcement configuration for TSC services**

*Type: draftCR For: Approval  
 33.514 v16.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-203060)

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

**S3-203526 Threats related to security enforcement configuration for 5G LAN services**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-203069)

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

**S3-203527 New test case on security enforcement configuration for 5G LAN services**

*Type: draftCR For: Approval  
 33.514 v16.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-203070)

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

**S3-203543 Updated Threat Analysis of Incorrect Verification of Access Tokens**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203115)

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

**S3-203544 Update of the Test Case for Access Token Verification Failure Handling**

*Type: draftCR For: Approval  
 33.117 v16.5.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203117)

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

**S3-203547 Living CR to 33.514**

*Type: draftCR For: (not specified)  
 33.514 v16.3.0  
 Source: Huawei, Hisilicon*

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

**S3-203548 Living CR to 33.517**

*Type: draftCR For: (not specified)  
 33.517 v16.1.0  
 Source: Huawei, Hisilicon*

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

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

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

**S3-203125 Proposal to add introduction and NWDAF-specific security functional requirements**

*Type: pCR For: Approval  
 33.521 v0.1.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-203489**.

**S3-203126 Proposal to add security requirement and test cases for hardening about NWDAF**

*Type: pCR For: Approval  
 33.521 v0.1.0  
 Source: China Mobile*

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

**S3-203127 Proposal to add security requirement and test cases for basic vulnerability testing about NWDAF**

*Type: pCR For: Approval  
 33.521 v0.1.0  
 Source: China Mobile*

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

**S3-203489 Proposal to add introduction and NWDAF-specific security functional requirements**

*Type: pCR For: Approval  
 33.521 v0.1.0  
 Source: China Mobile*

(Replaces S3-203125)

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

**S3-203490 draft TS 33.521v0.2.0**

*Type: draft TS For: (not specified)  
 33.521 v0.2.0  
 Source: China Mobile Com. Corporation*

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

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

**S3-202977 Threat analysis on no new created child SA**

*Type: pCR For: Approval  
 33.520 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-202978 Check whether the N3IWF creats a child SA for PDU session**

*Type: pCR For: Approval  
 33.520 v0.1.0  
 Source: Huawei, Hisilicon*

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

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

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

**S3-202975 skeleton of NSSAAF SCAS**

*Type: pCR For: Approval  
 33.326 v0.0.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203514**.

**S3-202976 The scope of NSSAAF SCAS**

*Type: pCR For: Approval  
 33.326 v0.0.0  
 Source: Huawei, Hisilicon*

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

**S3-203514 skeleton of NSSAAF SCAS**

*Type: draft TS For: Approval  
 33.326 v0.0.0  
 Source: Huawei, Hisilicon*

(Replaces S3-202975)

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

**S3-203549 TS 33.326**

*Type: draft TS For: Approval  
 33.326 v0.1.0  
 Source: Huawei, Hisilicon*

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

### 4.22 Mission critical security enhancements phase 2

### 4.23 Enhancements to User Plane Integrity Protection Support in 5GS

**S3-203186 Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options**

*Type: draftCR For: Approval  
 33.501 v16.4.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-203511**.

**S3-203511 Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options**

*Type: draftCR For: Approval  
 33.501 v16.4.0  
 Source: Qualcomm Incorporated*

(Replaces S3-203186)

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

### 4.24 New work item proposals

**S3-202911 Discussion on New WID on security of Access Traffic Steering, Switch and Splitting (ATSSS) support in 5GS**

*Type: discussion For: Discussion  
 Source: ZTE Corporation*

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

**S3-202912 New WID on security of Access Traffic Steering, Switch and Splitting (ATSSS) support in 5GS**

*Type: WID new For: Approval  
 Source: ZTE Corporation*

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

**S3-203112 New WID on adapting BEST for use in 5G networks**

*Type: WID new For: Approval  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-203484**.

**S3-203484 New WID on adapting BEST for use in 5G networks**

*Type: WID new For: Approval  
 Source: KPN N.V.*

(Replaces S3-203112)

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

### 4.25 Other work areas (no release restrictions)

**S3-203058 Clarification on security policy configuration for TSC services**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0977 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-203068 Clarification on security policy configuration for 5G LAN services**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0978 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-203253 Support for mutual authentication between network entities**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1013 Cat: F (Rel-16)  
  
 Source: Samsung, Verizon*

**Decision:** The document was **revised to S3-203491**.

**S3-202819 Editorial corrections to NDS/AF**

*Type: CR For: Approval  
 33.310 v16.5.0 CR-0113 rev 1 Cat: F (Rel-16)  
  
 Source: Juniper Networks*

(Replaces S3-202810)

**Abstract:**

This CR proposes editorial changes to tto NDS/AF

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

**S3-203109 Enforcement of password change after initial login R15**

*Type: CR For: Approval  
 33.117 v15.5.0 CR-0067 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203110 Enforcement of password change after initial login R16**

*Type: CR For: Approval  
 33.117 v16.5.0 CR-0068 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203039 SHA-1 deprecation in GBA**

*Type: CR For: Approval  
 33.220 v16.2.0 CR-0207 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203519**.

**S3-203313 Aligning TLS in 33.222 with the current 3GPP TLS profile**

*Type: CR For: Agreement  
 33.222 v16.0.0 CR-0052 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203505**.

**S3-203314 Aligning TLS in 33.310 with the current 3GPP TLS profile**

*Type: CR For: Agreement  
 33.310 v16.5.0 CR-0116 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-203315 Correcting use of (D)TLS in 33.501**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1017 Cat: F (Rel-16)  
  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203506**.

**S3-202986 Handling of security parameters during authentication procedure**

*Type: CR For: (not specified)  
 33.501 v16.4.0 CR-0965 Cat: F (Rel-16)  
  
 Source: NEC*

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

**S3-203251 Handling of KAUSF upon successful primary authentication**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1012 Cat: F (Rel-16)  
  
 Source: Samsung, Nokia, Nokia Shanghai Bell, Intel*

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

**S3-202951 Handling of new Kausf during authentication procedure**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0964 Cat: F (Rel-16)  
  
 Source: NEC*

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

**S3-203227 Selection of latest KAUSF for SoR/UPU and storage of KAUSF in the UE and AUSF**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1009 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-202947 Correct NAS uplink COUNT for KgNB/KeNB derivation**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0962 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

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

**S3-202948 Correction to inter-AMF mobility key derivation function**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-0963 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

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

**S3-203004 Authentication procedure during Xn handover procedure**

*Type: CR For: (not specified)  
 33.501 v16.4.0 CR-0966 Cat: F (Rel-16)  
  
 Source: NEC*

**Decision:** The document was **revised to S3-203474**.

**S3-202810 Editorial corrections to NDS/AF**

*Type: CR For: Approval  
 33.310 v16.5.0 CR-0113 Cat: D (Rel-16)  
  
 Source: Juniper Networks*

**Abstract:**

This CR proposes editorial changes to tto NDS/AF

**Decision:** The document was **revised to S3-202819**.

**S3-202946 NAS uplink COUNT used for AS SMC at radio bearer establishment**

*Type: discussion For: Agreement  
 Source: MediaTek Inc.*

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

**S3-203005 DISC Authentication procedure during Xn handover procedure**

*Type: discussion For: Approval  
 Source: NEC*

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

**S3-203047 Discussion on MITM attack in vertical LAN**

*Type: discussion For: Endorsement  
 Source: Huawei, Hisilicon*

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

**S3-203048 LS on MITM Attack in CAG**

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

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

**S3-203228 LS on successful authentication event on the UE for 5G AKA**

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

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

**S3-203252 Discussion on the UE handling newly generated KAUSF**

*Type: discussion For: Discussion  
 33.501 v..  
 Source: Samsung*

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

**S3-203474 Authentication procedure during Xn handover procedure**

*Type: CR For: (not specified)  
 33.501 v16.4.0 CR-0966 rev 1 Cat: F (Rel-16)  
  
 Source: NEC*

(Replaces S3-203004)

**Decision:** The document was **revised to S3-203475**.

**S3-203475 Authentication procedure during Xn handover procedure**

*Type: CR For: (not specified)  
 33.501 v16.4.0 CR-0966 rev 2 Cat: F (Rel-16)  
  
 Source: NEC*

(Replaces S3-203474)

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

**S3-203491 Support for mutual authentication between network entities**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1013 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung, Verizon, Nokia, Nokia Shanghai Bell*

(Replaces S3-203253)

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

**S3-203505 Aligning TLS in 33.222 with the current 3GPP TLS profile**

*Type: CR For: Agreement  
 33.222 v16.0.0 CR-0052 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-203313)

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

**S3-203506 Correcting use of (D)TLS in 33.501**

*Type: CR For: Agreement  
 33.501 v16.4.0 CR-1017 rev 1 Cat: F (Rel-16)  
  
 Source: Ericsson*

(Replaces S3-203315)

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

**S3-203519 SHA-1 deprecation in GBA**

*Type: CR For: Agreement  
 33.220 v16.2.0 CR-0207 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-203039)

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

**S3-203520 Input parameters of access token request addition and verification**

*Type: CR For: Approval  
 33.501 v16.4.0 CR-0972 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

(Replaces S3-203049)

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

**S3-203522 Reply LS on Misalignments on HTTP message format over N32-f**

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

(Replaces S3-203055)

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

### 5.1 Study on 5G security enhancement against false base stations

**S3-202835 Reply LS to SA3 on FBS detection**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-1914224*

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

**S3-202866 pCR Update to solution #20 (6.20.2.5.1) Trust Anchors in UE of TR 33.809**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Deutsche Telekom AG*

**Abstract:**

This contribution proposes changes to the "UE Behaviours" part of solution #20 in TR 33.809.

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

**S3-202891 Additions to Key Issue#7 on MitM detection**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202892 Solution proposal for KI#7MitM detection**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202893 Updates to solution #20 (6.20.4)**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: CableLabs, Interdigital, Apple, Deutsche Telekom AG, Intel, Rogers Communications, Philips*

**Decision:** The document was **revised to S3-203470**.

**S3-202943 Detection of MiTM False Base Station**

*Type: pCR For: (not specified)  
 33.809 v0.11.0  
 Source: Huawei, HiSilicon*

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

**S3-202983 New solution for KI#3**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Philips International B.V., CableLabs*

**Decision:** The document was **revised to S3-203364**.

**S3-202984 Clarification Solution #23**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Philips International B.V.*

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

**S3-203007 5GFBS-Edotorial change in Clause 4**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Apple*

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

**S3-203008 5GFBS- Edotorial change in Clause 5.2.1**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Apple*

**Decision:** The document was **revised to S3-203452**.

**S3-203158 5GFBS: Accuracy of Loaction Estimate for Solution#22**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203160 5GFBS: Legitimate BS detected as FBS for Solution#22**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203310 Updates to solution #20 (6.20.2.2.4)**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: CableLabs*

**Decision:** The document was **revised to S3-203471**.

**S3-203364 UE&Network-assisted UE avoidance and Network detection of FBS**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Philips International B.V., CableLabs*

(Replaces S3-202983)

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

**S3-203447 TR 33.809-5GFBS**

*Type: draft TR For: Approval  
 33.809 v0.12.0  
 Source: Apple Computer Trading Co. Ltd*

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

**S3-203452 5GFBS- Edotorial change in Clause 5.2.1**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: Apple*

(Replaces S3-203008)

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

**S3-203470 Updates to solution #20 (6.20.4)**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: CableLabs, Interdigital, Apple, Deutsche Telekom AG, Intel, Rogers Communications, Philips*

(Replaces S3-202893)

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

**S3-203471 Updates to solution #20 (6.20.2.2.4)**

*Type: pCR For: Approval  
 33.809 v0.11.0  
 Source: CableLabs*

(Replaces S3-203310)

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

### 5.2 Study on SECAM and SCAS for 3GPP virtualized network products

**S3-202969 Missing details in clause 4**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: Huawei, Hisilicon*

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

**S3-202982 Discussion Paper for virtualization SCAS**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: Huawei, Hisilicon*

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

**S3-203128 Editorial correction on TR 33.818**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-203344**.

**S3-203129 Adding hardening requirements for GVNP of type 1**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-203346**.

**S3-203130 Adding hardening requirements for GVNP of type 2**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-203347**.

**S3-203131 Adding hardening requirements for GVNP of type 3**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

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

**S3-203132 Adding basic vulnerability testing requirements for GVNP**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-203348**.

**S3-203133 Adding vendor development and product lifecycle processes and test laboratory accreditation into Clause 6**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

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

**S3-203134 Adding evaluation and SCAS instantiation into clause 7**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

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

**S3-203135 Adding test case into clause 5.2.5.5.8.5.1**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

**Decision:** The document was **revised to S3-203349**.

**S3-203136 Adding test case into clause 5.2.5.6.6.1**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

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

**S3-203137 Adding impact to existing SECAM-SCAS documents into clause 8.1**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

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

**S3-203138 proposal for way forward**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

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

**S3-203161 SCAS VNP: Adding Definitions for ETSI NFV Terms**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203403**.

**S3-203162 SCAS VNP: DoS Attack via Changing Virtualized Resource**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203404**.

**S3-203163 SCAS VNP: Secure Execution Environment**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203405**.

**S3-203164 SCAS VNP: Threats on VNF-VNFM Interface**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203406**.

**S3-203166 SCAS VNP: VM Escape and Hypervisor Escape**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203167 SCAS VNP: Security requirements on the interface between VNF and VNFM**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203407**.

**S3-203344 Editorial correction on TR 33.818**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

(Replaces S3-203128)

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

**S3-203346 Adding hardening requirements for GVNP of type 1**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

(Replaces S3-203129)

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

**S3-203347 Adding hardening requirements for GVNP of type 2**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

(Replaces S3-203130)

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

**S3-203348 Adding basic vulnerability testing requirements for GVNP**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

(Replaces S3-203132)

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

**S3-203349 Adding test case into clause 5.2.5.5.8.5.1**

*Type: pCR For: Approval  
 33.818 v0.8.0  
 Source: China Mobile*

(Replaces S3-203135)

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

**S3-203350 draft TR33.818 v0.9.0**

*Type: draft TR For: (not specified)  
 33.818 v0.9.0  
 Source: China Mobile Com. Corporation*

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

**S3-203403 SCAS VNP: Adding Definitions for ETSI NFV Terms**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203161)

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

**S3-203404 SCAS VNP: DoS Attack via Changing Virtualized Resource**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203162)

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

**S3-203405 SCAS VNP: Secure Execution Environment**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203163)

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

**S3-203406 SCAS VNP: Threats on VNF-VNFM Interface**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203164)

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

**S3-203407 SCAS VNP: Security requirements on the interface between VNF and VNFM**

*Type: pCR For: Approval  
 33.818 v0.7.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203167)

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

### 5.3 Study on User Plane Integrity Protection

**S3-202979 UP IP-Update solution #11**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203454**.

**S3-203009 UPIP-EN addressing in solution#19**

*Type: pCR For: Approval  
 33.853 v1.1.0  
 Source: Apple*

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

**S3-203010 UPIP-Evaluation in Solution#18**

*Type: pCR For: Approval  
 33.853 v1.1.0  
 Source: Apple*

**Decision:** The document was **revised to S3-203453**.

**S3-203173 Resolving the ENs in solution #18**

*Type: pCR For: Approval  
 33.853 v1.1.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-203377**.

**S3-203174 Resolving EN in solution #19**

*Type: pCR For: Approval  
 33.853 v1.1.0  
 Source: Qualcomm Incorporated*

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

**S3-203175 Best effort UP IP for EPS**

*Type: pCR For: Approval  
 33.853 v1.1.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-203385**.

**S3-203280 UPIP: Remove Editor note in evaluation clause in solution #11**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203374**.

**S3-203281 UPIP: Configuration of the UP IP policy**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

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

**S3-203282 UPIP: Resolve EN about X2 HO in Solution #11**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203375**.

**S3-203283 UPIP: Resolve EN in Solution #17**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203378**.

**S3-203284 UPIP: New solutions for interworking handover from EPS to 5GS**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203379**.

**S3-203285 UPIP: New solution for S1 handover**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203381**.

**S3-203286 UPIP: New solution for X2 handover**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203382**.

**S3-203287 UPIP: New solutions for interworking handover from 5GS to EPS**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203384**.

**S3-203288 UPIP: Conclusion on UE connects to EPC via eUTRA**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

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

**S3-203335 Draft TR 33.853 v1.2.0**

*Type: draft TR For: Approval  
 33.853 v1.2.0  
 Source: Samsung*

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

**S3-203374 UPIP: Remove Editor note in evaluation clause in solution #11**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

(Replaces S3-203280)

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

**S3-203375 UPIP: Resolve EN about X2 HO in Solution #11**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

(Replaces S3-203282)

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

**S3-203377 Resolving the ENs in solution #18**

*Type: pCR For: Approval  
 33.853 v1.1.0  
 Source: Qualcomm Incorporated*

(Replaces S3-203173)

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

**S3-203378 UPIP: Resolve EN in Solution #17**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

(Replaces S3-203283)

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

**S3-203379 UPIP: New solutions for interworking handover from EPS to 5GS**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

(Replaces S3-203284)

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

**S3-203381 UPIP: New solution for S1 handover**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

(Replaces S3-203285)

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

**S3-203382 UPIP: New solution for X2 handover**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

(Replaces S3-203286)

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

**S3-203383 Draft TR 33.853 v1.3.0**

*Type: draft TR For: Approval  
 33.853 v1.3.0  
 Source: Vodafone GmbH*

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

**S3-203384 UPIP: New solutions for interworking handover from 5GS to EPS**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Ericsson*

(Replaces S3-203287)

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

**S3-203385 Best effort UP IP for EPS**

*Type: pCR For: Approval  
 33.853 v1.1.0  
 Source: Qualcomm Incorporated*

(Replaces S3-203175)

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

**S3-203453 UPIP-Evaluation in Solution#18**

*Type: pCR For: Approval  
 33.853 v1.1.0  
 Source: Apple*

(Replaces S3-203010)

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

**S3-203454 UP IP-Update solution #11**

*Type: pCR For: Approval  
 33.853 v1.2.0  
 Source: Huawei, Hisilicon*

(Replaces S3-202979)

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

### 5.4 Study on Security Impacts of Virtualisation

### 5.5 Study on authentication enhancements in 5GS

**S3-202811 Discussion paper for evaluation update of solution #4.3 in TR 33.846**

*Type: discussion For: Decision  
 33.846 v..  
 Source: Deutsche Telekom AG*

**Abstract:**

This is a discussion paper to motivate the pCR <Evaluation update of solution #4.3 in TR 33.846>

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

**S3-202812 pCR: Evaluation update of solution #4.3 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Deutsche Telekom AG*

**Abstract:**

This is an evolution update, taking into account the potential operator decision that the ME shall calculate the SUCI [Option SUCI Calc on ME].

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

**S3-202850 Reply to LS on Resynchronisations**

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

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

**S3-202913 Discussion on key issue 4.1 in TR 33.846**

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

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

**S3-202914 New solution for key issue# 4.1 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: ZTE Corporation*

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

**S3-202915 Conclusion for Key Issue #4.1 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: ZTE Corporation*

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

**S3-202916 Solution of Mitigation against the SUPI replay attack**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: ZTE Corporation*

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

**S3-202917 Update solution#2.1 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: ZTE Corporation*

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

**S3-202958 New solution to mitigate SUPI guessing and SUCI replay attack**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Huawei, Hisilicon*

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

**S3-203080 TR 33.846: evaluation of solution #2.1**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: THALES*

**Abstract:**

Evaluation of solution #2.1

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

**S3-203081 TR 33.846: evaluation of solution #2.2**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: THALES*

**Abstract:**

TR 33.846: evaluation of solution #2.2

**Decision:** The document was **revised to S3-203393**.

**S3-203082 TR 33.846: evaluation of solution #2.4**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: THALES*

**Abstract:**

TR 33.846: evaluation of solution #2.2

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

**S3-203083 TR 33.846: conclusion for Key Issue #2.1**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: THALES*

**Abstract:**

TR 33.846: conclusion for Key Issue #2.1

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

**S3-203084 TR 33.846: conclusion for Key Issue #4.1**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: THALES*

**Abstract:**

TR 33.846: conclusion for Key Issue #4.1

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

**S3-203120 Solution to address the Key issue #2.2 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: China Mobile*

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

**S3-203121 Update to Key issue #2.2 on SUCI Replay in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: China Mobile*

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

**S3-203122 Need a unified solution to the key issue #2.1 and key issue #4.1 in TR 33.846**

*Type: discussion For: Endorsement  
 33.846 v..  
 Source: China Mobile*

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

**S3-203123 Propose a conclusion for the key issue #2.1 and key issue #4.1 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: China Mobile*

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

**S3-203178 Some evaluation of solution #2.2 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Qualcomm Incorporated*

(Replaces S3-202644)

**Decision:** The document was **revised to S3-203394**.

**S3-203179 Proposing a conclusion for key issue #4.1**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Qualcomm Incorporated*

(Replaces S3-202647)

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

**S3-203218 Editorial corrections**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Ericsson*

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

**S3-203327 Applicability of KIs to Solution on SQNms protection by concealment**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203328 Ed.note resolution on backward compatibility in solution SQNms protection by concealment**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203329 Solution update - SQNms protection by concealment in USIM**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203330 New solution - SQNms protection by concealment in ME**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203331 Extension of KI on linkability attack**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203332 KI-Solution mapping table**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203372**.

**S3-203333 Editorial MCC requested correction**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203376**.

**S3-203372 KI-Solution mapping table**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203332)

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

**S3-203376 Editorial MCC requested correction**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203333)

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

**S3-203388 Draft TR 33.846 v0.9.0 Study on authentication enhancements in the 5G System (5GS)**

*Type: draft TR For: Approval  
 33.846 v0.9.0  
 Source: Ericsson España S.A.*

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

**S3-203393 TR 33.846: evaluation of solution #2.2**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: THALES*

(Replaces S3-203081)

**Abstract:**

TR 33.846: evaluation of solution #2.2

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

**S3-203394 Some evaluation of solution #2.2 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.8.0  
 Source: Qualcomm Incorporated*

(Replaces S3-203178)

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

### 5.6 Study on storage and transport of the security parameters in a 5GC, that are used by the ARPF for Authentication

**S3-203018 TR 33.845: solution #4**

*Type: pCR For: Approval  
 33.845 v0.5.0  
 Source: THALES, KPN*

**Abstract:**

Change to solution #4

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

**S3-203256 Conclusions for TR 33.845**

*Type: pCR For: Approval  
 33.845 v0.4.0  
 Source: Ericsson*

**Abstract:**

This contribution proposes analyses the KIs defined in TR 33.845 and Solutions to KIs included in the TR and proposes Conclusions for the TR.

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

**S3-203289 Evaluation for Solution #1**

*Type: pCR For: Approval  
 33.845 v0.4.0  
 Source: Ericsson*

**Abstract:**

This contribution proposes evaluation for Solution#1

**Decision:** The document was **revised to S3-203342**.

**S3-203294 Evaluation for Solution #2**

*Type: pCR For: Approval  
 33.845 v0.4.0  
 Source: Ericsson*

**Abstract:**

This contribution proposes evaluation for Solution#2

**Decision:** The document was **revised to S3-203343**.

**S3-203301 Evaluation for Solution #9 and Solution #11**

*Type: pCR For: Approval  
 33.845 v0.4.0  
 Source: Ericsson*

**Abstract:**

This contribution proposes evaluation for Solution#9 and Solution#11

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

**S3-203306 removal of Editor’s Notes**

*Type: pCR For: Approval  
 33.845 v0.4.0  
 Source: Ericsson*

**Abstract:**

This contribution proposes the removal of some Editor’s Note’s in TR 33.845

**Decision:** The document was **revised to S3-203345**.

**S3-203336 Draft TR 33.845 v0.5.0**

*Type: draft TR For: Approval  
 33.845 v0.5.0  
 Source: Samsung R&D Institute UK*

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

**S3-203342 Evaluation for Solution #1**

*Type: pCR For: Approval  
 33.845 v0.4.0  
 Source: Ericsson*

(Replaces S3-203289)

**Abstract:**

This contribution proposes evaluation for Solution#1

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

**S3-203343 Evaluation for Solution #2**

*Type: pCR For: Approval  
 33.845 v0.4.0  
 Source: Ericsson*

(Replaces S3-203294)

**Abstract:**

This contribution proposes evaluation for Solution#2

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

**S3-203345 removal of Editor’s Notes**

*Type: pCR For: Approval  
 33.845 v0.4.0  
 Source: Ericsson*

(Replaces S3-203306)

**Abstract:**

This contribution proposes the removal of some Editor’s Note’s in TR 33.845

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

**S3-203380 Draft TR 33.845 v0.6.0**

*Type: draft TR For: Approval  
 33.845 v0.6.0  
 Source: Vodafone GmbH*

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

### 5.7 Study on security aspects of Unmanned Aerial Systems

**S3-202822 Support of UAVs in 3GPP system and interfacing with USS/UTM**

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

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

**S3-202874 TR 33.854 Update for solution#3**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: InterDigital, Europe, Ltd.*

**Abstract:**

adds a new procedure for UAV authorization revocation by USS/UTM enforced via Proxy/AMF

**Decision:** The document was **revised to S3-203352**.

**S3-202875 TR 33.854 Update for solution#4**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: InterDigital, Europe, Ltd.*

**Abstract:**

adds a new procedure for UAV authorization revocation by USS/UTM enforced via SMF

**Decision:** The document was **revised to S3-203353**.

**S3-202876 TR 33.854 Update for solution#5**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: InterDigital, Europe, Ltd.*

**Abstract:**

adds a new procedure for UAV authorization revocation by USS/UTM enforced via ProxyAA/SMF

**Decision:** The document was **revised to S3-203354**.

**S3-202877 TR 33.854 Update for KI#2**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: InterDigital, Europe, Ltd.*

**Abstract:**

propose to update KI based on latest SA2 agreements

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

**S3-203088 Addressing EN in KI#2: scope of pairing authorization**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-203089 Addressing EN in KI#3: scope of TPAE A&A**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-203090 Addressing EN in KI#6: scope of RID security protection**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-203091 Addressing EN in KI#7: scope of C2 Security**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-203092 A solution to TPAE A&A**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-203093 A solutin to UAV and UAV-C pairing authorization**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: Huawei, HiSilicon, InterDigital*

**Decision:** The document was **revised to S3-203387**.

**S3-203094 A solution to RID information protection**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-203095 A solution to C2 communication security**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-203176 Authentication and authorisation of UAVs**

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

(Replaces S3-202641)

**Decision:** The document was **revised to S3-203386**.

**S3-203177 Modification of the pairing key issue**

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

**Decision:** The document was **revised to S3-203390**.

**S3-203230 Optimized\_UAS\_Enabled\_Authentication**

*Type: pCR For: (not specified)  
 33.854 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203371**.

**S3-203231 DHIES encryption to avoid UAV spoofing**

*Type: pCR For: (not specified)  
 33.854 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203292 UAS: Update of solution #2**

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

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

**S3-203296 Update to KI #2 on Pairing authorization for UAV and UAVC**

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

**Abstract:**

This pCR proposes to update Key Issue #2: Pairing authorization for UAV and UAVC in TR 33.854

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

**S3-203298 Update to Solution #7 on UAS Authentication**

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

**Abstract:**

This pCR proposes to Update Solution #7 in TR 33.854

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

**S3-203300 Update to Solution 7 to align on UAS NF**

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

**Abstract:**

This pCR proposes to Update Solution #7 to align with SA2 conclusions on UAS NF in TR 33.854

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

**S3-203303 Update to Solution #7 to resolve EN in UAS Authentication**

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

**Abstract:**

This pCR proposes to Update Solution #7 in TR 33.854

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

**S3-203352 TR 33.854 Update for solution#3**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-202874)

**Abstract:**

adds a new procedure for UAV authorization revocation by USS/UTM enforced via Proxy/AMF

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

**S3-203353 TR 33.854 Update for solution#4**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-202875)

**Abstract:**

adds a new procedure for UAV authorization revocation by USS/UTM enforced via SMF

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

**S3-203354 TR 33.854 Update for solution#5**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-202876)

**Abstract:**

adds a new procedure for UAV authorization revocation by USS/UTM enforced via ProxyAA/SMF

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

**S3-203371 Optimized\_UAS\_Enabled\_Authentication**

*Type: pCR For: (not specified)  
 33.854 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203230)

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

**S3-203386 Authentication and authorisation of UAVs**

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

(Replaces S3-203176)

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

**S3-203387 A solutin to UAV and UAV-C pairing authorization**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: Huawei, HiSilicon, InterDigital*

(Replaces S3-203093)

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

**S3-203390 Modification of the pairing key issue**

*Type: pCR For: Approval  
 33.854 v0.2.0  
 Source: Qualcomm Incorporated, Interdigital, Huawei, HiSilicon, Lenovo, Motorola Mobility*

(Replaces S3-203177)

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

**S3-203467 TR 33.854 v0.3.0**

*Type: draft TR For: Approval  
 33.854 v0.3.0  
 Source: Qualcomm Incoporated*

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

### 5.8 Study on Security Aspects of Enhancement of Support for Edge Computing in 5GC

**S3-202839 LS on IP address to GPSI translation**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2005923*

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

**S3-202849 Reply LS on IP address to GPSI translation**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S6-202008*

**Decision:** The document was **replied to in S3-203360**.

**S3-202896 Editoral modifications in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: CATT*

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

**S3-202897 Update key issue #1 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S3-203433**.

**S3-202898 Update Key issue #2 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S3-203434**.

**S3-202899 Update Solution #6 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S3-203435**.

**S3-202918 Update solution 14 in TR 33.839**

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

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

**S3-202927 Update Solution #10 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S3-203437**.

**S3-202928 Update Solution #15 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: CATT*

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

**S3-202931 Authentication and Authorization Framework for EDGE-4 interfaces using Primary authentication and proxy interface**

*Type: pCR For: (not specified)  
 33.839 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-203412**.

**S3-202932 Updates to Solution 4**

*Type: pCR For: (not specified)  
 33.839 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-203413**.

**S3-202933 Updates to Solution 12**

*Type: pCR For: (not specified)  
 33.839 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-203414**.

**S3-203011 MEC-Addressing the EN on key hierachy in solution#2**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: Apple*

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

**S3-203012 MEC-Addressing the EN on EEC ID in solution#2**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: Apple*

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

**S3-203013 MEC-Adding the ENs in solution#7**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: Apple*

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

**S3-203027 Add reference TR33.867 and clean up**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-203441**.

**S3-203028 Security between the SMF and LDNSR**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-203032 EC:New key issue on protecting UPF in customer network**

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

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

**S3-203033 EC: New Key issue on user privacy for UPF in customer network**

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

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

**S3-203034 EC: New key issue on N4 protection for UPF in customer network**

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

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

**S3-203045 EC: Editor notes removal**

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

**Decision:** The document was **revised to S3-203457**.

**S3-203064 EC: New solution on Edge Data Network authentication and authorization for key issue #4**

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

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

**S3-203065 EC: New solution on authorization during Edge Data Network change**

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

**Decision:** The document was **revised to S3-203443**.

**S3-203066 EC: new solution on exposure for key issue #8**

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

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

**S3-203067 EC: Framework on the EEC authentication and authorization**

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

**Decision:** The document was **revised to S3-203444**.

**S3-203154 New Solution to KI#1, 2, 3, 6: TLS and HTTP Digest with AKMA**

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

**Decision:** The document was **revised to S3-203355**.

**S3-203248 Resolving editor’s note on using TLS based on AKMA PSK**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: Samsung*

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

**S3-203319 Removal of EN on AMF routing**

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

**Abstract:**

This document proposes a resolution of the EN on AMF routing.

**Decision:** The document was **revised to S3-203460**.

**S3-203320 Removal of EN on ECS in HPLMN**

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

**Abstract:**

This document proposes a resolution of the EN on ECS in HPLMN.

**Decision:** The document was **revised to S3-203461**.

**S3-203321 Removal of EN on replay attack**

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

**Abstract:**

This document proposes a resolution of the EN on replay attack.

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

**S3-203339 LS on clarification regarding EEC ID**

*Type: LS out For: (not specified)  
 to SA6  
 Source: Ericsson LM*

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

**S3-203355 New Solution to KI#1, 2, 3, 6: TLS and HTTP Digest with AKMA**

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

(Replaces S3-203154)

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

**S3-203360 Reply LS on IP address to GPSI translation**

*Type: LS out For: (not specified)  
 to SA6, SA2  
 Source: Samsung*

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

**S3-203412 Authentication and Authorization Framework for EDGE-4 interfaces using Primary authentication and proxy interface**

*Type: pCR For: (not specified)  
 33.839 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-202931)

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

**S3-203413 Updates to Solution 4**

*Type: pCR For: (not specified)  
 33.839 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-202932)

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

**S3-203414 Updates to Solution 12**

*Type: pCR For: (not specified)  
 33.839 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-202933)

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

**S3-203433 Update key issue #1 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: CATT*

(Replaces S3-202897)

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

**S3-203434 Update Key issue #2 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: CATT*

(Replaces S3-202898)

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

**S3-203435 Update Solution #6 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: CATT*

(Replaces S3-202899)

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

**S3-203436 Draft TR 33.839 v0.3.0**

*Type: draft TR For: Approval  
 33.839 v0.3.0  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S3-203437 Update Solution #10 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.2.0  
 Source: CATT*

(Replaces S3-202927)

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

**S3-203441 Add reference TR33.867 and clean up**

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

(Replaces S3-203027)

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

**S3-203443 EC: New solution on authorization during Edge Data Network change**

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

(Replaces S3-203065)

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

**S3-203444 EC: Framework on the EEC authentication and authorization**

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

(Replaces S3-203067)

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

**S3-203457 EC: Editor notes removal**

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

(Replaces S3-203045)

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

**S3-203460 Removal of EN on AMF routing**

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

(Replaces S3-203319)

**Abstract:**

This document proposes a resolution of the EN on AMF routing.

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

**S3-203461 Removal of EN on ECS in HPLMN**

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

(Replaces S3-203320)

**Abstract:**

This document proposes a resolution of the EN on ECS in HPLMN.

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

### 5.9 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS

**S3-202816 Modified KI#5 for TR 33.847 – privacy of identities for UE2N path switc**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: InterDigital Communications, CableLabs*

**Abstract:**

This contribution proposes to modify KI#5 for TR 33.847.

**Decision:** The document was **revised to S3-203358**.

**S3-202817 Update of KI#8 for TR 33.847 – privacy of identities for UE2UE Relay path switch**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: InterDigital Communications, CableLabs*

**Abstract:**

This contribution proposes modification for KI#8 for TR 33.847.

**Decision:** The document was **revised to S3-203362**.

**S3-202818 New solution for TR 33.847 – Privacy handling for Layer-3 UE-to-UE Relay based on IP routing**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: InterDigital Communications*

**Abstract:**

This contribution proposes to new solution addressing Key Issue #8: Privacy of information over the UE-to-UE Relay and describing operations of the 5G ProSe UE-to-UE Relay in support of privacy for TR 33.847.

**Decision:** The document was **revised to S3-203369**.

**S3-202820 TR 33.847 Update for solution #10**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: InterDigital Communications*

**Abstract:**

This PCR proposes updates for solution #10 in TR 33.847.

**Decision:** The document was **revised to S3-203269**.

**S3-202838 LS on Security Requirements for Sidelink/PC5 Relays**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004750*

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

**S3-202846 LS on SA2 progress on UE-to-Network Relay and UE-to-UE Relay**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2007945*

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

**S3-202864 TR 33.847- new KI on security policy handling in ProSe UE2NW relay**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: Samsung, LG Electronics, InterDigital, CableLabs*

**Abstract:**

This key issue describes the issue with two security policies handling when the remote UE accesses the network via relay and PC5 unicast link (remote UE to relay UE) and Uu (relay UE to network) is established

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

**S3-202865 TR 33.847-Solution for secondary authentication in relay communication**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: LG Electronics Inc.*

**Abstract:**

This solution describes how to support the secondary authentication for Remote UE in UE-to-Network Relay communication

**Decision:** The document was **revised to S3-203351**.

**S3-202954 Update Sol#3 to resolve EN**

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

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

**S3-202955 Update Sol#4 to resolve EN**

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

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

**S3-202956 Update to Sol#7 to address EN and add evaluation**

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

**Decision:** The document was **revised to S3-203425**.

**S3-202957 Propose to resolve EN in the security requirement of KI#12**

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

**Decision:** The document was **revised to S3-203426**.

**S3-202968 security solution for UE-to-Network Relay based on Layer 2 Relay**

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

**Decision:** The document was **revised to S3-203430**.

**S3-202970 New Key issue on supporting security flexibility**

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

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

**S3-202971 Delete Editor's Note in solution 9**

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

**Decision:** The document was **revised to S3-203431**.

**S3-203014 ProSe-Modification in key issue#1**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: Apple*

**Decision:** The document was **revised to S3-203448**.

**S3-203015 ProSe-Modification in key issue#6**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: Apple*

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

**S3-203016 pCR to TR33.847-Rapporteur cleaning up work**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: CATT*

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

**S3-203017 pCR to TR33.847-Update Solution#3 for removing some ENs**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: CATT*

**Decision:** The document was **revised to S3-203440**.

**S3-203019 pCR to TR33.847-Update Solution#4 for removing some ENs**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: CATT*

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

**S3-203026 Solution on key management for UE-to-network relay**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-203432**.

**S3-203061 5G ProSe: New key issue on UE-to-UE Relay or UE-to-Network Relay selection**

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

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

**S3-203062 5G ProSe: New solution on UE-to-UE Relay or UE-to-Network Relay selection**

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

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

**S3-203063 5G ProSe: New solution on e2e authentication between two UE2 in the UE-to-UE relay scenario**

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

**Decision:** The document was **revised to S3-203442**.

**S3-203087 A solution for groupcast security and privacy**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-203462**.

**S3-203182 Solution for secure PC5 link establishment for UE-to-network relay**

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

(Replaces S3-202648)

**Decision:** The document was **revised to S3-203416**.

**S3-203183 Solution to establish end-to-end security for the L3 UE-to-network relay**

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

(Replaces S3-202649)

**Decision:** The document was **revised to S3-203417**.

**S3-203184 Solution for secure PC5 link establishment for UE-to-UE relay**

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

(Replaces S3-202650)

**Decision:** The document was **revised to S3-203418**.

**S3-203210 ProSe: Handling of AF’s for key managment**

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

**Decision:** The document was **revised to S3-203373**.

**S3-203229 New Solution for KI#11: Masked representation of identities**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: KPN N.V.*

**Abstract:**

New Solution for KI#11, UE protection during ProSe discovery. Solution is based on using masked representations of temporary UE identities.

**Decision:** The document was **revised to S3-203341**.

**S3-203269 TR 33.847 Update for solution #10**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: InterDigital Communications*

(Replaces S3-202820)

**Abstract:**

This PCR proposes updates for solution #10 in TR 33.847. It replaces previously uploaded S3-202820 while fixing a typo in it.

**Decision:** The document was **revised to S3-203391**.

**S3-203305 Update to Key Issue #12 – Validity and refresh of security context**

*Type: pCR For: (not specified)  
 33.847 v0.2.0  
 Source: KPN N.V.*

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

**S3-203307 Update to Key Issue #12 – Out of coverage scenario**

*Type: pCR For: (not specified)  
 33.847 v0.2.0  
 Source: KPN N.V.*

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

**S3-203308 New Solution for KI#12: Initial key with validity time**

*Type: pCR For: (not specified)  
 33.847 v0.2.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-203340**.

**S3-203318 New Key Issue on privacy of PDU session parameters**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: Philips International B.V., Interdigital*

**Decision:** The document was **revised to S3-203396**.

**S3-203334 TR 33.847: GBA-based solution to protect PC3 interface**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: THALES*

**Abstract:**

TR 33.847: GBA-based solution to protect PC3 interface

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

**S3-203340 New Solution for KI#12: Initial key with validity time**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: KPN N.V.*

(Replaces S3-203308)

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

**S3-203341 New Solution for KI#11: Masked representation of identities**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: KPN N.V.*

(Replaces S3-203229)

**Abstract:**

New Solution for KI#11, UE protection during ProSe discovery. Solution is based on using masked representations of temporary UE identities.

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

**S3-203351 TR 33.847-Solution for secondary authentication in relay communication**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: LG Electronics Inc.*

(Replaces S3-202865)

**Abstract:**

This solution describes how to support the secondary authentication for Remote UE in UE-to-Network Relay communication

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

**S3-203358 Modified KI#5 for TR 33.847 – privacy of identities for UE2N path switch**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: InterDigital Communications*

(Replaces S3-202816)

**Abstract:**

This contribution proposes to modify KI#5 for TR 33.847. It is the revision of S3-202816-r1.

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

**S3-203362 Update of KI#8 for TR 33.847 – privacy of identities for UE2UE Relay path switch**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: InterDigital Communications*

(Replaces S3-202817)

**Abstract:**

This contribution proposes modification for KI#8 for TR 33.847. It is the revision of S3-202817-r1.

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

**S3-203369 New solution for TR 33.847 – Privacy handling for Layer-3 UE-to-UE Relay based on IP routing**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: InterDigital Communications*

(Replaces S3-202818)

**Abstract:**

This contribution proposes to new solution addressing Key Issue #8: Privacy of information over the UE-to-UE Relay and is describing operations of the 5G ProSe UE-to-UE Relay in support of privacy for TR 33.847. It is the revision of S3-202818-r2.

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

**S3-203373 ProSe: Handling of AF’s for key managment**

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

(Replaces S3-203210)

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

**S3-203391 TR 33.847 Update for solution #10**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: InterDigital Communications*

(Replaces S3-203269)

**Abstract:**

This contribution proposes to address selected ENs. It is the revision of S3-203269-r1.

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

**S3-203396 New Key Issue on privacy of PDU session parameters**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: Philips International B.V., Interdigital*

(Replaces S3-203318)

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

**S3-203416 Solution for secure PC5 link establishment for UE-to-network relay**

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

(Replaces S3-203182)

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

**S3-203417 Solution to establish end-to-end security for the L3 UE-to-network relay**

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

(Replaces S3-203183)

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

**S3-203418 Solution for secure PC5 link establishment for UE-to-UE relay**

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

(Replaces S3-203184)

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

**S3-203425 Update to Sol#7 to address EN and add evaluation**

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

(Replaces S3-202956)

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

**S3-203426 Propose to resolve EN in the security requirement of KI#12**

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

(Replaces S3-202957)

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

**S3-203430 security solution for UE-to-Network Relay based on Layer 2 Relay**

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

(Replaces S3-202968)

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

**S3-203431 Delete Editor's Note in solution 9**

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

(Replaces S3-202971)

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

**S3-203432 Solution on key management for UE-to-network relay**

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

(Replaces S3-203026)

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

**S3-203440 pCR to TR33.847-Update Solution#3 for removing some ENs**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: CATT*

(Replaces S3-203017)

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

**S3-203442 5G ProSe: New solution on e2e authentication between two UE2 in the UE-to-UE relay scenario**

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

(Replaces S3-203063)

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

**S3-203448 ProSe-Modification in key issue#1**

*Type: pCR For: Approval  
 33.847 v0.2.0  
 Source: Apple*

(Replaces S3-203014)

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

**S3-203459 Draft TR 33.847 v0.3.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS**

*Type: draft TR For: Approval  
 33.847 v0.3.0  
 Source: CATT*

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

**S3-203462 A solution for groupcast security and privacy**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon, Lenovo, Motorola Mobility*

(Replaces S3-203087)

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

### 5.10 Study on security for enhanced support of Industrial IoT

**S3-203043 New requirement on key issue #2 of TR 33.851**

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

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

**S3-203044 New solution on key issue #2 of TR 33.851**

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

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

**S3-203190 Revised SID on IIoT Security**

*Type: SID revised For: Approval  
 Source: Qualcomm Incorporated*

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

**S3-203208 IIoT: Update to solution #1**

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

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

**S3-203209 IIoT: New solution for protection of time synchronisation messages**

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

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

**S3-203232 Requirements for KI on multiple working domains**

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

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

**S3-203233 Solution on multiple working domains**

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

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

**S3-203234 KI update – time synchronization messages**

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

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

**S3-203235 KI details Attacks based on asymmetric channel delay**

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

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

**S3-203236 KI details TSN AF to NW-TT DS-TT interface security**

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

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

**S3-203237 KI requirements and solution TSN AF to NW-TT DS-TT interface security**

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

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

**S3-203238 Annex on Security considerations for integration with TSN**

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

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

**S3-203389 TR\_33.851\_IIoT\_Sec**

*Type: draft TR For: (not specified)  
 33.851 v0.3.0  
 Source: Nokia Germany*

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

### 5.11 Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services

**S3-202919 Add some abbreviations for TR 33.850**

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

**Decision:** The document was **revised to S3-203422**.

**S3-202920 New solution for key issue#1 in TR 33.850**

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

**Decision:** The document was **revised to S3-203423**.

**S3-202921 Update solution#3 in TR 33.850**

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

**Decision:** The document was **revised to S3-203424**.

**S3-202964 new key issue on the security protection between content provider and 5GC**

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

**Decision:** The document was **revised to S3-203427**.

**S3-202965 new solution on the security protection between content provider and 5GC**

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

**Decision:** The document was **revised to S3-203428**.

**S3-202966 Solving the editoral note in solution 2**

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

**Decision:** The document was **revised to S3-203429**.

**S3-202985 Traffic\_Key\_Update\_Need\_And\_Solution**

*Type: pCR For: Approval  
 33.850 v0.2.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-203361**.

**S3-203031 MBS:Updates to the solutions for 5G MBS authorization revocation**

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

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

**S3-203361 Key\_Update\_Need\_And\_Solution**

*Type: pCR For: Approval  
 33.850 v0.2.0  
 Source: Philips International B.V.*

(Replaces S3-202985)

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

**S3-203422 Add some abbreviations for TR 33.850**

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

(Replaces S3-202919)

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

**S3-203423 New solution for key issue#1 in TR 33.850**

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

(Replaces S3-202920)

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

**S3-203424 Update solution#3 in TR 33.850**

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

(Replaces S3-202921)

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

**S3-203427 new key issue on the security protection between content provider and 5GC**

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

(Replaces S3-202964)

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

**S3-203428 new solution on the security protection between content provider and 5GC**

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

(Replaces S3-202965)

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

**S3-203429 Solving the editoral note in solution 2**

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

(Replaces S3-202966)

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

**S3-203455 Draft TR 33.850**

*Type: draft TR For: (not specified)  
 33.850 v0.3.0  
 Source: Huawei, Hisilicon*

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

### 5.12 Study on enhanced security support for Non-Public Networks

**S3-202837 LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2004385*

**Decision:** The document was **replied to in S3-203399**.

**S3-202844 LS on NG-RAN broadcast of Onboarding Network information in the SIB**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2007849*

**Decision:** The document was **replied to in S3-203402**.

**S3-202885 Resolution of editor notes related to usage of MSK vs. EMSK.**

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

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

**S3-202886 [DRAFT] Reply-LS on NG-RAN broadcast of Onboarding Network information in the SIB.**

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

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

**S3-202888 Updates to solution #3**

*Type: pCR For: Approval  
 33.857 v0.2.0  
 Source: CableLabs*

**Decision:** The document was **revised to S3-203468**.

**S3-202890 New solution for Key Issue #1 with enhanced security of KAUSF**

*Type: pCR For: Approval  
 33.857 v0.2.0  
 Source: CableLabs*

**Decision:** The document was **revised to S3-203469**.

**S3-202922 New solution on UE onboarding for SNPN with AAA-S as DCS**

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

**Decision:** The document was **revised to S3-203438**.

**S3-202923 New solution on UE onboarding for SNPN with UDM as DCS**

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

**Decision:** The document was **revised to S3-203439**.

**S3-202924 Reply LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN**

*Type: LS out For: Approval  
 to SA2  
 Source: ZTE Corporation*

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

**S3-202929 Discussion on LS on NG-RAN broadcast of Onboarding Network information in the SIB**

*Type: discussion For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

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

**S3-202930 Reply to LS S2-2007849 on NG-RAN broadcast of Onboarding Network information in the SIB**

*Type: LS out For: Approval  
 to SA2  
 Source: Intel Corporation (UK) Ltd*

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

**S3-202939 Solution to UE onboarding for non-public networks**

*Type: pCR For: (not specified)  
 33.857 v0.2.0  
 Source: Intel Corporation (UK) Ltd*

**Discussion:**

Intel requested to be minuted in the official report that the objection from Orange is not acceptable because it was provided in the last minute, without any prior comment, and without any justification relevant to the document, leaving no possibility to Intel to address their concerns

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

**S3-202987 New Solution on Authentication for UE onboarding for SNPN**

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

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

**S3-202988 Solution Update for Solution #5**

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

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

**S3-202989 Discussion for Provisioning of Credentials**

*Type: discussion For: Endorsement  
 33.857 v..  
 Source: Huawei, Hisilicon, China mobile*

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

**S3-202990 Clarification on Key Issue #2**

*Type: pCR For: Approval  
 33.857 v0.2.0  
 Source: Huawei, Hisilicon, Ericsson, Intel, China Mobile, Philips*

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

**S3-202991 New Key Issue on Provisioning of PNI-NPN credentials**

*Type: pCR For: Approval  
 33.857 v0.2.0  
 Source: Huawei, Hisilicon, China Mobile, Philips*

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

**S3-202992 LS on Clarification on the Scope of eNPN for Provisioning Aspect**

*Type: LS out For: Approval  
 to SA, cc SA1, SA2  
 Source: Huawei, Hisilicon*

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

**S3-203035 NPN: New solution to key issue #1**

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

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

**S3-203036 NPN: Updates to key issue #1**

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

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

**S3-203046 NPN: New solution to key issue #1**

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

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

**S3-203116 [DRAFT] LS on DCS mechanisms to authenticate the UE**

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

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

**S3-203155 New Solution to KI#3: Authentication to IMS Core using credentials generated with AKMA**

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

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

**S3-203156 New Solution to KI#3: Authentication to IMS Core using credentials generated from the KAUSF**

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

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

**S3-203168 TR 33.857: scope**

*Type: pCR For: Approval  
 33.857 v0.2.0  
 Source: THALES, Orange, Idemia*

**Abstract:**

TR 33.857: scope

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

**S3-203172 Solutions sketches for KI#2 (Provisioning of credentials)**

*Type: discussion For: Endorsement  
 33.857 v..  
 Source: Ericsson*

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

**S3-203187 pCR: High-Level Solution framework for KI#4**

*Type: pCR For: (not specified)  
 33.857 v0.2.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-203401**.

**S3-203188 Reply LS on NG-RAN broadcast of Onboarding Network information in the SIB**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-203402**.

**S3-203193 TR 33.857: security assumptions**

*Type: pCR For: Approval  
 33.857 v0.2.0  
 Source: THALES*

**Abstract:**

TR 33.857: security assumptions

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

**S3-203263 New Key Issue on Provisioning of PNI-NPN credentials**

*Type: pCR For: Approval  
 33.857 v0.2.0  
 Source: Ericsson, China Mobile*

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

**S3-203264 Proposed TR Assumptions on credentials**

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

**Decision:** The document was **revised to S3-203398**.

**S3-203265 Adding Subscription Owner terminology**

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

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

**S3-203266 [DRAFT] LS on AAA based solutions for credentials owned by an entity separate from the SNPN**

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

**Decision:** The document was **revised to S3-203399**.

**S3-203267 New Solution: Secure initial access to an SNPN onboarding network**

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

**Decision:** The document was **revised to S3-203397**.

**S3-203268 [DRAFT] LS on locating the DCS with the help of SUPI or SUCI**

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

**Decision:** The document was **revised to S3-203466**.

**S3-203299 UE accessing most preferred serving NPN**

*Type: pCR For: (not specified)  
 33.857 v0.2.0  
 Source: Futurewei Technologies*

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

**S3-203397 New Solution: Secure initial access to an SNPN onboarding network**

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

(Replaces S3-203267)

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

**S3-203398 Proposed TR Assumptions on credentials**

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

(Replaces S3-203264)

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

**S3-203399 LS on AAA based solutions for credentials owned by an entity separate from the SNPN**

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

(Replaces S3-203266)

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

**S3-203400 Draft TR 33857 v030 Study on enhanced security support for Non-Public Networks (NPN)**

*Type: draft TR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

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

**S3-203401 pCR: High-Level Solution framework for KI#4**

*Type: pCR For: (not specified)  
 33.857 v0.2.0  
 Source: Qualcomm Incorporated*

(Replaces S3-203187)

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

**S3-203402 Reply LS on NG-RAN broadcast of Onboarding Network information in the SIB**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Qualcomm Incorporated*

(Replaces S3-203188)

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

**S3-203438 New solution on UE onboarding for SNPN with AAA-S as DCS**

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

(Replaces S3-202922)

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

**S3-203439 New solution on UE onboarding for SNPN with UDM as DCS**

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

(Replaces S3-202923)

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

**S3-203466 LS on locating the DCS with the help of SUPI or SUCI**

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

(Replaces S3-203268)

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

**S3-203468 Updates to solution #3**

*Type: pCR For: Approval  
 33.857 v0.2.0  
 Source: CableLabs*

(Replaces S3-202888)

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

**S3-203469 New solution for Key Issue #1 with enhanced security of KAUSF**

*Type: pCR For: Approval  
 33.857 v0.2.0  
 Source: CableLabs*

(Replaces S3-202890)

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

### 5.13 Study on security aspects of the Disaggregated gNB Architecture

**S3-202980 LS to RAN3 on Progress on security study for disaggregated gNB**

*Type: LS out For: Approval  
 33.840 v0.1.0  
 to RAN3  
 Source: Huawei, Hisilicon*

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

**S3-202981 CU-UPs key separation**

*Type: pCR For: Approval  
 33.840 v0.1.0  
 Source: Huawei, Hisilicon, China Telecom*

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

**S3-203030 pCR to TR33.840- Add missing references**

*Type: pCR For: Approval  
 33.840 v0.1.0  
 Source: CATT*

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

**S3-203185 Key Issue on Impact of Simultaneous CU-UP applying common UP security**

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

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

**S3-203207 pCR to TR33.840-New key issue for CU-UPs security policy difference**

*Type: pCR For: Approval  
 33.840 v0.1.0  
 Source: CATT*

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

**S3-203302 third party gNB-CU-UP**

*Type: pCR For: (not specified)  
 33.840 v0.1.0  
 Source: Futurewei Technologies*

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

**S3-203304 disaggregated gNB secure environment**

*Type: pCR For: (not specified)  
 33.840 v0.1.0  
 Source: Futurewei Technologies*

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

**S3-203415 TR33.840 v0.2.0**

*Type: draft TR For: Approval  
 33.840 v0.2.0  
 Source: China Telecommunications*

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

### 5.14 Study on User Consent for 3GPP services

**S3-202894 Key Issue on Generic User consent**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-202996 Scope of User Consent for 3GPP Services**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203451**.

**S3-202997 System Architecture for User Consent for 3GPP Services in 5G System**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-202998 Background for User Consent**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-202999 Consideration Factors for User Consent**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-203000 Add two Use Cases for UC3S**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-203001 Structuring key issues per SID objectives**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-203002 Adding general clause to key issue part**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-203003 Reword the reference description**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Huawei, Hisilicon*

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

**S3-203244 Usecase for User Consent in Edge Computing**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Samsung*

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

**S3-203245 Exposed user information in Edge computing**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Samsung*

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

**S3-203246 Potential Requirement on user's consent for exposure of information to Edge Applications**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Samsung*

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

**S3-203247 User consent for exposure of information to Edge Applications**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Samsung*

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

**S3-203297 user consent in ProSe restricted discovery**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Futurewei Technologies*

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

**S3-203451 Scope of User Consent for 3GPP Services**

*Type: pCR For: Approval  
 33.867 v0.1.0  
 Source: Huawei, Hisilicon*

(Replaces S3-202996)

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

**S3-203458 Draft TR 33.867**

*Type: draft TR For: Approval  
 33.867 v0.2.0  
 Source: Huawei,Hisilicon*

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

### 5.15 Study on security aspects of the 5GMSG Service

**S3-203139 Key issue on authentication and authorization between MSGin5G Gateway Client and MSGin5G server**

*Type: pCR For: Approval  
 33.862 v0.1.0  
 Source: China Mobile*

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

**S3-203239 Authentication and authorization between 5GMSGS client and MSGin5G server**

*Type: pCR For: Approval  
 33.862 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-203365**.

**S3-203240 Authentication and authorization between 5GMSGS client and MSGin5G server using secondary authentication**

*Type: pCR For: Approval  
 33.862 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-203366**.

**S3-203241 Transport security for MSGin5G-1 interface**

*Type: pCR For: Approval  
 33.862 v0.1.0  
 Source: Samsung*

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

**S3-203365 Authentication and authorization between 5GMSGS client and MSGin5G server**

*Type: pCR For: Approval  
 33.862 v0.1.0  
 Source: Samsung*

(Replaces S3-203239)

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

**S3-203366 Authentication and authorization between 5GMSGS client and MSGin5G server using secondary authentication**

*Type: pCR For: Approval  
 33.862 v0.1.0  
 Source: Samsung*

(Replaces S3-203240)

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

**S3-203464 draft TR 33.862 0.2.0**

*Type: draft TR For: Approval  
 33.862 v0.2.0  
 Source: China Mobile International Ltd*

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

### 5.16 Study on security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) Phase 2

**S3-202841 LS on method for collection of data from the UE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2006292*

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

**S3-202845 LS on authorization to access data**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2007931*

**Decision:** The document was **replied to in S3-203368**.

**S3-202949 New Key issue on reporting of base station involved in cyber attack**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: NEC*

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

**S3-202993 Add Security Requirement for Key Issue #2.1**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203449**.

**S3-202994 LS on Mitigation Aspects for Cyber-Attack Detection**

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

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

**S3-202995 Scope of eNA Security**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203450**.

**S3-203124 Requirements to TR 33.866 on key issue 5.2.1 Cyber-attacks Detection**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: China Mobile*

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

**S3-203242 New KI on Authentication and Authorization of Application clients**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Samsung*

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

**S3-203243 New KI on Privacy and integrity protection for transmitted data between AF and NWDAF**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-203367**.

**S3-203260 Update to key issue 3.1**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Ericsson*

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

**S3-203261 Potential security requirement to KI 2.1**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Ericsson*

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

**S3-203262 [DRAFT] Reply LS on securing data collection from UE**

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

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

**S3-203270 eNA study scope**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203271 eNA overview**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203357**.

**S3-203272 KI on Authorization of consumers for data access via DCCF**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203273 KI on privacy preservation for transmitted data**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203370**.

**S3-203274 Requirements to KI on privacy preservation for transmitted data**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203363**.

**S3-203275 KI on Abnormal NF behavior detection by NWDAF**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203276 Requirements to KI on Abnormal NF behavior detection by NWDAF**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203473**.

**S3-203277 Update to KI Cyber-attacks Detection supported by NWDAF**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203278 Key issue on processing of tampered data**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203359**.

**S3-203279 Solution on processing of tampered data**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-203312 eNA: [DRAFT] Reply LS on securing data collection from UE**

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

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

**S3-203316 Key issue on security of data collection from UE**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Ericsson*

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

**S3-203317 Analytics for MitM Attack Detection**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This document proposes analytics for MitM Attack Detection.

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

**S3-203323 Reply to LS on authorization to access data**

*Type: LS out For: Approval  
 to SA2  
 Source: NTT DOCOMO*

**Decision:** The document was **revised to S3-203368**.

**S3-203357 eNA overview**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203271)

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

**S3-203359 Key issue on processing of tampered data**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203278)

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

**S3-203363 Requirements to KI on privacy preservation for transmitted data**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203274)

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

**S3-203367 New KI on Privacy and integrity protection for transmitted data between AF and NWDAF**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Samsung*

(Replaces S3-203243)

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

**S3-203368 Reply to LS on authorization to access data**

*Type: LS out For: Approval  
 to SA2  
 Source: NTT DOCOMO*

(Replaces S3-203323)

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

**S3-203370 KI on privacy preservation for transmitted data**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203273)

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

**S3-203449 Add Security Requirement for Key Issue #2.1**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Huawei, Hisilicon, Nokia, Nokia Shanghai Bell, China Mobile*

(Replaces S3-202993)

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

**S3-203450 Scope of eNA Security**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Huawei, Hisilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-202995)

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

**S3-203463 draft TR 33.866 0.2.0**

*Type: draft TR For: (not specified)  
 33.866 v0.2.0  
 Source: China Mobile International Ltd*

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

**S3-203473 Requirements to KI on Abnormal NF behavior detection by NWDAF**

*Type: pCR For: Approval  
 33.866 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203276)

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

### 5.17 Study on the security of AMF re-allocation

**S3-202829 LS on Clarification on processing of messages after NAS security establishment**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-206582*

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

**S3-202925 Architecture and security assumptions of AMF re-allocation**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: ZTE Corporation*

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

**S3-202926 LS on Clarification of requirements and architecture impacts by network slice isolation**

*Type: LS out For: Approval  
 to SA1, SA2  
 Source: ZTE Corporation*

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

**S3-203040 AMFREAL: Description of AMF reallocation procedure**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203445**.

**S3-203041 AMFREAL: New key issue on registration failure with AMF reallocation**

*Type: pCR For: Approval  
 33.864 v0.0.0  
 Source: Huawei, Hisilicon*

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

**S3-203042 AMFREAL: New solution to registration failure with AMF reallocation**

*Type: pCR For: Approval  
 33.864 v0.0.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-203446**.

**S3-203180 AMF re-allocation via RAN using existing security states**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-203395**.

**S3-203214 Assumptions for the AMF re-allocation security study**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203419**.

**S3-203215 New key issue for the security of the AMF re-allocation procedures**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203420**.

**S3-203216 New solution for AMF re-allocation procedure when 5G NAS security context is rerouted via RAN**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-203421**.

**S3-203217 New solution for NAS re-route via RAN and the use of a well-connected network function**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Ericsson*

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

**S3-203293 Key Issue on Security Context handling issues with AMF re-allocation**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR proposes a Key Issue on ‘Security Context handling issues with AMF re-allocation’ to TR 33.864

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

**S3-203295 Solution to enable NAS Security for AMF reallocation and reroute via RAN Scenario**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR proposes a solution to address a Key Issue on ‘Security Context handling issues with AMF re-allocation’ in TR 33.864

**Decision:** The document was **revised to S3-203465**.

**S3-203392 Draft TR 33.864 v0.2.0 Study on the security of Access and Mobility Management Function (AMF) re-allocation**

*Type: draft TR For: Approval  
 33.864 v0.2.0  
 Source: Ericsson España S.A.*

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

**S3-203395 AMF re-allocation via RAN using existing security states**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Qualcomm Incorporated*

(Replaces S3-203180)

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

**S3-203419 Assumptions for the AMF re-allocation security study**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Ericsson*

(Replaces S3-203214)

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

**S3-203420 New key issue for the security of the AMF re-allocation procedures**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Ericsson, Huawei, Hisilicon, China Mobile, Lenovo, Motorola Mobility*

(Replaces S3-203215)

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

**S3-203421 New solution for AMF re-allocation procedure when 5G NAS security context is rerouted via RAN**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Ericsson*

(Replaces S3-203216)

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

**S3-203445 AMFREAL: Description of AMF reallocation procedure**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Huawei, Hisilicon*

(Replaces S3-203040)

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

**S3-203446 AMFREAL: New solution to registration failure with AMF reallocation**

*Type: pCR For: Approval  
 33.864 v0.0.0  
 Source: Huawei, Hisilicon*

(Replaces S3-203042)

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

**S3-203465 Solution to enable NAS Security for AMF reallocation and reroute via RAN Scenario**

*Type: pCR For: Approval  
 33.864 v0.1.0  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-203295)

**Abstract:**

This pCR proposes a solution to address a Key Issue on ‘Security Context handling issues with AMF re-allocation’ in TR 33.864

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

### 5.18 Study on Security for NR Integrated Access and Backhaul

**S3-202959 updating the IAB architecture in key issue#4.1**

*Type: pCR For: Approval  
 33.824 v0.9.0  
 Source: Huawei, Hisilicon*

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

**S3-202960 updating the RLF key issue**

*Type: pCR For: Approval  
 33.824 v0.9.0  
 Source: Huawei, Hisilicon*

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

**S3-202961 key issue on security in Inter-CU handover procedure**

*Type: pCR For: Approval  
 33.824 v0.9.0  
 Source: Huawei, Hisilicon*

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

**S3-202962 updating the Scope**

*Type: pCR For: Approval  
 33.824 v0.9.0  
 Source: Huawei, Hisilicon*

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

**S3-203254 Updates on Rel-16 IAB Conclusions**

*Type: pCR For: Approval  
 33.824 v0.6.0  
 Source: Samsung*

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

**S3-203255 Clean-up of IAB TR 33.824**

*Type: pCR For: Approval  
 33.824 v0.6.0  
 Source: Samsung*

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

**S3-203456 Draft TR33.824 v0.7.0**

*Type: draft TR For: (not specified)  
 33.824 v0.7.0  
 Source: Samsung*

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

### 5.19 Study on the security of the system enablers for devices having multiple Universal Subscriber Identity Modules

**S3-202840 LS on System support for Multi-USIM devices**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2006011*

**Decision:** The document was **replied to in S3-203356**.

**S3-202863 Skeleton for MUSIM TR**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

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

**S3-202895 LS Reply to SA2 on System support for MUSIM devices**

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

**Decision:** The document was **revised to S3-203356**.

**S3-202934 Introduction for MUSIM TR**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

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

**S3-202935 Key Issue for Busy Indication**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-203408**.

**S3-202936 Privacy while roaming**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

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

**S3-202937 Key Issue for UE and Paging Server Communication**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-203409**.

**S3-202938 [DRAFT] Reply to LS S2-2006011 on System support for Multi-USIM devices**

*Type: LS out For: (not specified)  
 to SA2  
 Source: Intel Corporation (UK) Ltd*

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

**S3-202940 Scope for MUSIM TR**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-203410**.

**S3-202941 NAS Based Solution for Busy Indication**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

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

**S3-202942 Security for Paging Notifications**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

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

**S3-203189 Multi-USIM security and privacy**

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

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

**S3-203356 LS Reply to SA2 on System support for MUSIM devices**

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

(Replaces S3-202895)

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

**S3-203408 Key Issue for Busy Indication**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-202935)

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

**S3-203409 Key Issue for UE and Paging Server Communication**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-202937)

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

**S3-203410 Scope for MUSIM TR**

*Type: other For: (not specified)  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-202940)

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

**S3-203411 draft TR Study on the security of the system enablers for devices having multiple Universal Subscriber Identity Modules**

*Type: other For: (not specified)  
 Source: Intel*

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

### 5.20 New study item proposals

**S3-203096 Discussion paper for Rel17 SID on network slicing security**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT, China Unicom, China Mobile, InterDigital*

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

**S3-203097 Rel17 SID on network slice security**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT, China Unicom, China Mobile, InterDigital*

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

**S3-203159 eNPN: revision of SA3 SID**

*Type: pCR For: Discussion  
 33.857 v0.2.0  
 Source: THALES, Orange, Idemia*

**Abstract:**

eNPN: revision of SA3 SID

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

**S3-203165 eNPN SID revision**

*Type: SID revised For: Agreement  
 Source: THALES, Orange, Idemia*

**Abstract:**

eNPN SID revision

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

**S3-203206 FS\_eSBA\_SEC**

*Type: SID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-203504**.

**S3-203504 FS\_eSBA\_SEC**

*Type: SID new For: Agreement  
 Source: Nokia, Nokia Shanghai Bell, Mavenir, CableLabs, Deutsche Telekom, Verizon, Vodafone, T-Mobile, Docomo, China Mobile, Huawei, HiSilicon, Samsung*

(Replaces S3-203206)

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

### 5.21 Other study areas (no release restrictions)

## 6 CVD and research

**S3-202878 A threat of service disruption due to unprotected RRC messages reported by 5G Security Forum in South Korea**

*Type: discussion For: Information  
 Source: SK Telecom*

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

**S3-202879 A threat on IMS confidentiality reported by 5G Security Forum in South Korea**

*Type: discussion For: Information  
 Source: SK Telecom*

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

**S3-203472 CVD process update**

*Type: discussion For: Information  
 Source: WG chair*

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

## 7 Any Other Business

**S3-202867 New template for the Terms of Reference (ToR)**

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

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

**S3-203337 SA3 meeting calendar**

*Type: other For: (not specified)  
 Source: WG Chair*

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

**S3-203477 Draft agenda for SA3#101bis-e**

*Type: agenda For: Information  
 Source: WG chair*

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

**S3-203478 Draft agenda for SA3#102-e**

*Type: agenda For: Information  
 Source: WG chair*

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

## Annex A: Contribution documents and status

### A1: List of TDocs

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Decision | Replaces | Replaced by |
| S3-202800 | Agenda | SA WG3 Chair | approved |  |  |
| S3-202801 | Report from SA3#100Bis-e meeting | MCC | approved |  |  |
| S3-202802 | Report from SA3#100-e meeting | MCC | approved |  |  |
| S3-202803 | Process for SA3#101e meeting | SA WG3 Chair | noted |  |  |
| S3-202804 | Report from last SA | SA WG3 Chair | noted |  |  |
| S3-202805 | Draft LS: Misalignment on requirement for access token request between TS 29.510 and 33.501 | Mavenir | revised |  | S3-203495 |
| S3-202806 | SA3 and CT4 misalignment on token request for Discovery and NFManagement | Mavenir | noted |  |  |
| S3-202807 | NRF authorization during NF service consumer Access Token Get Request | Mavenir | withdrawn |  |  |
| S3-202808 | NRF authorization during NF service consumer Access Token Get Request | Mavenir | revised |  | S3-203497 |
| S3-202809 | NRF authorization during NF service consumer Access Token Get Request | Mavenir | revised |  | S3-203496 |
| S3-202810 | Editorial corrections to NDS/AF | Juniper Networks | revised |  | S3-202819 |
| S3-202811 | Discussion paper for evaluation update of solution #4.3 in TR 33.846 | Deutsche Telekom AG | noted |  |  |
| S3-202812 | pCR: Evaluation update of solution #4.3 in TR 33.846 | Deutsche Telekom AG | approved |  |  |
| S3-202813 | Clarification to SEAF | Nokia, Nokia Shanghai Bell | agreed | S3-201873 |  |
| S3-202814 | Clarification to SEAF | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-202815 | TCG progress - report from TCG rapporteur | InterDigital Communications | noted |  |  |
| S3-202816 | Modified KI#5 for TR 33.847 – privacy of identities for UE2N path switc | InterDigital Communications, CableLabs | revised |  | S3-203358 |
| S3-202817 | Update of KI#8 for TR 33.847 – privacy of identities for UE2UE Relay path switch | InterDigital Communications, CableLabs | revised |  | S3-203362 |
| S3-202818 | New solution for TR 33.847 – Privacy handling for Layer-3 UE-to-UE Relay based on IP routing | InterDigital Communications | revised |  | S3-203369 |
| S3-202819 | Editorial corrections to NDS/AF | Juniper Networks | agreed | S3-202810 |  |
| S3-202820 | TR 33.847 Update for solution #10 | InterDigital Communications | revised |  | S3-203269 |
| S3-202821 | LS response to TCCA on Public Safety | GSMA 5G Joint-Activity (5GJA) | noted |  |  |
| S3-202822 | Support of UAVs in 3GPP system and interfacing with USS/UTM | GSMA | noted |  |  |
| S3-202823 | Use of 256-bit block Rijndael in Milenage-256 | ETSI SAGE | replied to |  |  |
| S3-202824 | Answer to ETSI SAGE LS dated 5 June 2020 regarding the use of 256-bit block Rijndael in Milenage-256 | TCA (Trusted Connectivity Alliance) | noted |  |  |
| S3-202825 | LS on 5G-GUTI reallocation after paging of a UE in 5GMM-IDLE mode with suspend indication | C1-200967 | postponed |  |  |
| S3-202826 | LS on NSSAA at inter-PLMN mobility | C1-206508 | noted |  |  |
| S3-202827 | LS on the re-keying procedure for NR SL | R2-2005978 | noted |  |  |
| S3-202828 | Reply LS on the re-keying procedure for NR SL | C1-206576 | replied to |  |  |
| S3-202829 | LS on Clarification on processing of messages after NAS security establishment | C1-206582 | noted |  |  |
| S3-202830 | LS on MuDe functionality | C1-206625 | noted |  |  |
| S3-202831 | LS on AUSF/UDM discovery based on SUCI information | C4-204337 | noted |  |  |
| S3-202832 | LS on Misalignments on HTTP message format over N32-f | C4-204409 | replied to |  |  |
| S3-202833 | LS on information of stage 3 aspects for AKMA | CP-202255 | noted |  |  |
| S3-202834 | Reply LS on ETSI Plugtest reports | ETSI MCX Plugtests | noted |  |  |
| S3-202835 | Reply LS to SA3 on FBS detection | R2-1914224 | postponed |  |  |
| S3-202836 | LS on propagation of user consent related information during Xn inter-PLMN handover | R3-204378 | postponed |  |  |
| S3-202837 | LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN | S2-2004385 | replied to |  |  |
| S3-202838 | LS on Security Requirements for Sidelink/PC5 Relays | S2-2004750 | postponed |  |  |
| S3-202839 | LS on IP address to GPSI translation | S2-2005923 | noted |  |  |
| S3-202840 | LS on System support for Multi-USIM devices | S2-2006011 | replied to |  |  |
| S3-202841 | LS on method for collection of data from the UE | S2-2006292 | postponed |  |  |
| S3-202842 | LS on Clarification on AAA-Server address | C4-203452 | noted |  |  |
| S3-202843 | LS Response on Clarification on AAA-Server address | S2-2007826 | noted |  |  |
| S3-202844 | LS on NG-RAN broadcast of Onboarding Network information in the SIB | S2-2007849 | replied to |  |  |
| S3-202845 | LS on authorization to access data | S2-2007931 | replied to |  |  |
| S3-202846 | LS on SA2 progress on UE-to-Network Relay and UE-to-UE Relay | S2-2007945 | noted |  |  |
| S3-202847 | LS on Reference point interface names for AKMA | S2-2008003 | noted |  |  |
| S3-202848 | Regulatory LI compliance of AKMA | S3i200477 | replied to |  |  |
| S3-202849 | Reply LS on IP address to GPSI translation | S6-202008 | replied to |  |  |
| S3-202850 | Reply to LS on Resynchronisations | ETSI SAGE | postponed |  |  |
| S3-202851 | Observations and questions on 256-bit security goals | ETSI SAGE | replied to |  |  |
| S3-202852 | Independent evaluation of SNOW V | ETSI SAGE | postponed |  |  |
| S3-202853 | LS on Physical layer assisted lightweight AKA (PL-AKA) protocol for the Internet of things | ITU-T SG17 | replied to |  |  |
| S3-202854 | Comments on physical layer assisted lightweight AKA (PL-AKA) protocol for the Internet of things | ETSI SAGE | noted |  |  |
| S3-202855 | LS on threats of service disruption, SIP message alteration and content eavesdropping in 5G networks | ITU-T SG17 | replied to |  |  |
| S3-202856 | LS on Security requirements for vertical services supporting Ultra Reliable and Low Latency Communication (URLLC) in the 5G non-public networks | ITU-T SG17 | noted |  |  |
| S3-202857 | LS on SG17 new work item 'Security Methodology for Zero-Touch Massive IoT Deployment | ITU-T SG17 | postponed |  |  |
| S3-202858 | LS on SG17 new work item “Security aspect on electric vertical take-off and landing (eVTOL) vehicle” | ITU-T SG17 | noted |  |  |
| S3-202859 | LS on draft ITU-T X.nsom-sec ‘Security requirements and architecture for network slice management and orchestration’ | ITU-T SG17 | noted |  |  |
| S3-202860 | LS on the stage 2 aspects of MINT (SP-200654 / C1-205332) | SP-200880 | noted |  |  |
| S3-202861 | LS on 5G GUTI re-allocation | SP-200883 | noted |  |  |
| S3-202862 | LS on Rel-17 schedule | SP-200888 | noted |  |  |
| S3-202863 | Skeleton for MUSIM TR | Intel Corporation (UK) Ltd | approved |  |  |
| S3-202864 | TR 33.847- new KI on security policy handling in ProSe UE2NW relay | Samsung, LG Electronics, InterDigital, CableLabs | noted |  |  |
| S3-202865 | TR 33.847-Solution for secondary authentication in relay communication | LG Electronics Inc. | revised |  | S3-203351 |
| S3-202866 | pCR Update to solution #20 (6.20.2.5.1) Trust Anchors in UE of TR 33.809 | Deutsche Telekom AG | approved |  |  |
| S3-202867 | New template for the Terms of Reference (ToR) | SA WG3 Chair | noted |  |  |
| S3-202868 | New WID on removal AKMA from Rel-16 | China Mobile | agreed |  |  |
| S3-202869 | CR Removal of AKMA changes to TS 33.501 in Rel-16 | China Mobile | agreed |  |  |
| S3-202870 | CR Removal of AKMA changes to TS 33.220 in Rel-16 | China Mobile | revised |  | S3-203488 |
| S3-202871 | Revised WID of AKMA | China Mobile | revised |  | S3-203485 |
| S3-202872 | CR for AKMA changes to TS 33.501 in Rel-17 | China Mobile International Ltd | revised |  | S3-203486 |
| S3-202873 | CR for AKMA changes to TS 33.220 in Rel-17 | China Mobile | revised |  | S3-203487 |
| S3-202874 | TR 33.854 Update for solution#3 | InterDigital, Europe, Ltd. | revised |  | S3-203352 |
| S3-202875 | TR 33.854 Update for solution#4 | InterDigital, Europe, Ltd. | revised |  | S3-203353 |
| S3-202876 | TR 33.854 Update for solution#5 | InterDigital, Europe, Ltd. | revised |  | S3-203354 |
| S3-202877 | TR 33.854 Update for KI#2 | InterDigital, Europe, Ltd. | merged |  | S3-203390 |
| S3-202878 | A threat of service disruption due to unprotected RRC messages reported by 5G Security Forum in South Korea | SK Telecom | noted |  |  |
| S3-202879 | A threat on IMS confidentiality reported by 5G Security Forum in South Korea | SK Telecom | noted |  |  |
| S3-202880 | [33.180] R16 Fix terminology | Airbus | revised |  | S3-203551 |
| S3-202881 | [33.180] R17 Fix terminology | Airbus | revised |  | S3-203552 |
| S3-202882 | Corrections on security establishment | InterDigital, Europe, Ltd. | agreed |  |  |
| S3-202883 | Re-using of access token in indirect communication with delegated discovery | Nokia, Nokia Shanghai Bell | revised | S3-201802 | S3-203499 |
| S3-202884 | Security policy handling | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-202885 | Resolution of editor notes related to usage of MSK vs. EMSK. | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-202886 | [DRAFT] Reply-LS on NG-RAN broadcast of Onboarding Network information in the SIB. | Nokia, Nokia Shanghai Bell | merged |  | S3-203402 |
| S3-202887 | Error correction and clarification of Annex O | CableLabs | revised |  | S3-203507 |
| S3-202888 | Updates to solution #3 | CableLabs | revised |  | S3-203468 |
| S3-202889 | NAS COUNT storage for multiple PLMN | Nokia, Nokia Shanghai Bell | revised |  | S3-203476 |
| S3-202890 | New solution for Key Issue #1 with enhanced security of KAUSF | CableLabs | revised |  | S3-203469 |
| S3-202891 | Additions to Key Issue#7 on MitM detection | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202892 | Solution proposal for KI#7MitM detection | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202893 | Updates to solution #20 (6.20.4) | CableLabs, Interdigital, Apple, Deutsche Telekom AG, Intel, Rogers Communications, Philips | revised |  | S3-203470 |
| S3-202894 | Key Issue on Generic User consent | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-202895 | LS Reply to SA2 on System support for MUSIM devices | Nokia, Nokia Shanghai Bell | revised |  | S3-203356 |
| S3-202896 | Editoral modifications in TR 33.839 | CATT | merged |  | S3-203441 |
| S3-202897 | Update key issue #1 in TR 33.839 | CATT | revised |  | S3-203433 |
| S3-202898 | Update Key issue #2 in TR 33.839 | CATT | revised |  | S3-203434 |
| S3-202899 | Update Solution #6 in TR 33.839 | CATT | revised |  | S3-203435 |
| S3-202900 | Update the pre-condition in clause 4.2.2.1.1, 4.2.2.1.2, 4.2.2.1.9, 4.2.2.1.10 and 4.2.2.1.11 | ZTE Corporation | not pursued |  |  |
| S3-202901 | Clarification of RID in clause 6.1 for AKMA | ZTE Corporation | not pursued |  |  |
| S3-202902 | A new A-KID derivation after a new primary authentication | ZTE Corporation | not pursued |  |  |
| S3-202903 | AAnF selection by AF | ZTE Corporation | not pursued |  |  |
| S3-202904 | AKMA key lifetime expiration in clause 5.2 | ZTE Corporation | not pursued |  |  |
| S3-202905 | Kakma and A-KID refresh in clause 6.1 | ZTE Corporation | merged |  | S3-203535 |
| S3-202906 | Kausf storing in AUSF | ZTE Corporation | merged |  | S3-203535 |
| S3-202907 | Resolution of editor's note on other parameter in clause 6.3 | ZTE Corporation | not pursued |  |  |
| S3-202908 | Rewording Kaf refresh | ZTE Corporation | not pursued |  |  |
| S3-202909 | the lifetime of KAF expiration | ZTE Corporation | agreed |  |  |
| S3-202910 | UDM notifies AAnF AKMA context removal | ZTE Corporation | not pursued |  |  |
| S3-202911 | Discussion on New WID on security of Access Traffic Steering, Switch and Splitting (ATSSS) support in 5GS | ZTE Corporation | noted |  |  |
| S3-202912 | New WID on security of Access Traffic Steering, Switch and Splitting (ATSSS) support in 5GS | ZTE Corporation | noted |  |  |
| S3-202913 | Discussion on key issue 4.1 in TR 33.846 | ZTE Corporation | noted |  |  |
| S3-202914 | New solution for key issue# 4.1 in TR 33.846 | ZTE Corporation | noted |  |  |
| S3-202915 | Conclusion for Key Issue #4.1 in TR 33.846 | ZTE Corporation | noted |  |  |
| S3-202916 | Solution of Mitigation against the SUPI replay attack | ZTE Corporation | noted |  |  |
| S3-202917 | Update solution#2.1 in TR 33.846 | ZTE Corporation | approved |  |  |
| S3-202918 | Update solution 14 in TR 33.839 | ZTE Corporation | noted |  |  |
| S3-202919 | Add some abbreviations for TR 33.850 | ZTE Corporation | revised |  | S3-203422 |
| S3-202920 | New solution for key issue#1 in TR 33.850 | ZTE Corporation | revised |  | S3-203423 |
| S3-202921 | Update solution#3 in TR 33.850 | ZTE Corporation | revised |  | S3-203424 |
| S3-202922 | New solution on UE onboarding for SNPN with AAA-S as DCS | ZTE Corporation | revised |  | S3-203438 |
| S3-202923 | New solution on UE onboarding for SNPN with UDM as DCS | ZTE Corporation | revised |  | S3-203439 |
| S3-202924 | Reply LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN | ZTE Corporation | merged |  | S3-203399 |
| S3-202925 | Architecture and security assumptions of AMF re-allocation | ZTE Corporation | noted |  |  |
| S3-202926 | LS on Clarification of requirements and architecture impacts by network slice isolation | ZTE Corporation | noted |  |  |
| S3-202927 | Update Solution #10 in TR 33.839 | CATT | revised |  | S3-203437 |
| S3-202928 | Update Solution #15 in TR 33.839 | CATT | approved |  |  |
| S3-202929 | Discussion on LS on NG-RAN broadcast of Onboarding Network information in the SIB | Intel Corporation (UK) Ltd | noted |  |  |
| S3-202930 | Reply to LS S2-2007849 on NG-RAN broadcast of Onboarding Network information in the SIB | Intel Corporation (UK) Ltd | merged |  | S3-203402 |
| S3-202931 | Authentication and Authorization Framework for EDGE-4 interfaces using Primary authentication and proxy interface | Intel Corporation (UK) Ltd | revised |  | S3-203412 |
| S3-202932 | Updates to Solution 4 | Intel Corporation (UK) Ltd | revised |  | S3-203413 |
| S3-202933 | Updates to Solution 12 | Intel Corporation (UK) Ltd | revised |  | S3-203414 |
| S3-202934 | Introduction for MUSIM TR | Intel Corporation (UK) Ltd | merged |  | S3-203410 |
| S3-202935 | Key Issue for Busy Indication | Intel Corporation (UK) Ltd | revised |  | S3-203408 |
| S3-202936 | Privacy while roaming | Intel Corporation (UK) Ltd | noted |  |  |
| S3-202937 | Key Issue for UE and Paging Server Communication | Intel Corporation (UK) Ltd | revised |  | S3-203409 |
| S3-202938 | [DRAFT] Reply to LS S2-2006011 on System support for Multi-USIM devices | Intel Corporation (UK) Ltd | merged |  | S3-203356 |
| S3-202939 | Solution to UE onboarding for non-public networks | Intel Corporation (UK) Ltd | noted |  |  |
| S3-202940 | Scope for MUSIM TR | Intel Corporation (UK) Ltd | revised |  | S3-203410 |
| S3-202941 | NAS Based Solution for Busy Indication | Intel Corporation (UK) Ltd | noted |  |  |
| S3-202942 | Security for Paging Notifications | Intel Corporation (UK) Ltd | noted |  |  |
| S3-202943 | Detection of MiTM False Base Station | Huawei, HiSilicon | noted |  |  |
| S3-202944 | Corrections of clause 6.1 | CATT | revised |  | S3-203535 |
| S3-202945 | Editorial modifications of AKMA | CATT | agreed |  |  |
| S3-202946 | NAS uplink COUNT used for AS SMC at radio bearer establishment | MediaTek Inc. | noted |  |  |
| S3-202947 | Correct NAS uplink COUNT for KgNB/KeNB derivation | MediaTek Inc. | not pursued |  |  |
| S3-202948 | Correction to inter-AMF mobility key derivation function | MediaTek Inc. | not pursued |  |  |
| S3-202949 | New Key issue on reporting of base station involved in cyber attack | NEC | noted |  |  |
| S3-202950 | Reply LS on Regulatory LI compliance of AKMA | China Mobile | approved |  |  |
| S3-202951 | Handling of new Kausf during authentication procedure | NEC | not pursued |  |  |
| S3-202952 | Clarification on cross-layer indication triggered by updating the security context | Huawei, Hisilicon | revised |  | S3-203480 |
| S3-202953 | Propose to improve the user plane security policy handling logic | Huawei, Hisilicon | revised |  | S3-203481 |
| S3-202954 | Update Sol#3 to resolve EN | Huawei, Hisilicon | noted |  |  |
| S3-202955 | Update Sol#4 to resolve EN | Huawei, Hisilicon | noted |  |  |
| S3-202956 | Update to Sol#7 to address EN and add evaluation | Huawei, Hisilicon | revised |  | S3-203425 |
| S3-202957 | Propose to resolve EN in the security requirement of KI#12 | Huawei, Hisilicon | revised |  | S3-203426 |
| S3-202958 | New solution to mitigate SUPI guessing and SUCI replay attack | Huawei, Hisilicon | noted |  |  |
| S3-202959 | updating the IAB architecture in key issue#4.1 | Huawei, Hisilicon | noted |  |  |
| S3-202960 | updating the RLF key issue | Huawei, Hisilicon | noted |  |  |
| S3-202961 | key issue on security in Inter-CU handover procedure | Huawei, Hisilicon | noted |  |  |
| S3-202962 | updating the Scope | Huawei, Hisilicon | noted |  |  |
| S3-202963 | Adding details of AKMA key generation in the UE | Huawei, Hisilicon | revised |  | S3-203482 |
| S3-202964 | new key issue on the security protection between content provider and 5GC | Huawei, Hisilicon | revised |  | S3-203427 |
| S3-202965 | new solution on the security protection between content provider and 5GC | Huawei, Hisilicon | revised |  | S3-203428 |
| S3-202966 | Solving the editoral note in solution 2 | Huawei, Hisilicon | revised |  | S3-203429 |
| S3-202967 | Adding AAnF selection | Huawei, Hisilicon | not pursued |  |  |
| S3-202968 | security solution for UE-to-Network Relay based on Layer 2 Relay | Huawei, Hisilicon | revised |  | S3-203430 |
| S3-202969 | Missing details in clause 4 | Huawei, Hisilicon | noted |  |  |
| S3-202970 | New Key issue on supporting security flexibility | Huawei, Hisilicon | noted |  |  |
| S3-202971 | Delete Editor's Note in solution 9 | Huawei, Hisilicon | revised |  | S3-203431 |
| S3-202972 | living CR to TS 33.511 | Huawei, Hisilicon | approved |  |  |
| S3-202973 | Living CR toTR33.926 for eSCAS | Huawei, Hisilicon | revised |  | S3-203512 |
| S3-202974 | Living CR to TS33.117 | Huawei, Hisilicon | revised |  | S3-203513 |
| S3-202975 | skeleton of NSSAAF SCAS | Huawei, Hisilicon | revised |  | S3-203514 |
| S3-202976 | The scope of NSSAAF SCAS | Huawei, Hisilicon | approved |  |  |
| S3-202977 | Threat analysis on no new created child SA | Huawei, Hisilicon | noted |  |  |
| S3-202978 | Check whether the N3IWF creats a child SA for PDU session | Huawei, Hisilicon | noted |  |  |
| S3-202979 | UP IP-Update solution #11 | Huawei, Hisilicon | revised |  | S3-203454 |
| S3-202980 | LS to RAN3 on Progress on security study for disaggregated gNB | Huawei, Hisilicon | noted |  |  |
| S3-202981 | CU-UPs key separation | Huawei, Hisilicon, China Telecom | noted |  |  |
| S3-202982 | Discussion Paper for virtualization SCAS | Huawei, Hisilicon | withdrawn |  |  |
| S3-202983 | New solution for KI#3 | Philips International B.V., CableLabs | revised |  | S3-203364 |
| S3-202984 | Clarification Solution #23 | Philips International B.V. | noted |  |  |
| S3-202985 | Traffic\_Key\_Update\_Need\_And\_Solution | Philips International B.V. | revised |  | S3-203361 |
| S3-202986 | Handling of security parameters during authentication procedure | NEC | not pursued |  |  |
| S3-202987 | New Solution on Authentication for UE onboarding for SNPN | Huawei, Hisilicon | noted |  |  |
| S3-202988 | Solution Update for Solution #5 | Huawei, Hisilicon | noted |  |  |
| S3-202989 | Discussion for Provisioning of Credentials | Huawei, Hisilicon, China mobile | noted |  |  |
| S3-202990 | Clarification on Key Issue #2 | Huawei, Hisilicon, Ericsson, Intel, China Mobile, Philips | noted |  |  |
| S3-202991 | New Key Issue on Provisioning of PNI-NPN credentials | Huawei, Hisilicon, China Mobile, Philips | noted |  |  |
| S3-202992 | LS on Clarification on the Scope of eNPN for Provisioning Aspect | Huawei, Hisilicon | noted |  |  |
| S3-202993 | Add Security Requirement for Key Issue #2.1 | Huawei, Hisilicon | revised |  | S3-203449 |
| S3-202994 | LS on Mitigation Aspects for Cyber-Attack Detection | Huawei, Hisilicon | noted |  |  |
| S3-202995 | Scope of eNA Security | Huawei, Hisilicon | revised |  | S3-203450 |
| S3-202996 | Scope of User Consent for 3GPP Services | Huawei, Hisilicon | revised |  | S3-203451 |
| S3-202997 | System Architecture for User Consent for 3GPP Services in 5G System | Huawei, Hisilicon | noted |  |  |
| S3-202998 | Background for User Consent | Huawei, Hisilicon | noted |  |  |
| S3-202999 | Consideration Factors for User Consent | Huawei, Hisilicon | noted |  |  |
| S3-203000 | Add two Use Cases for UC3S | Huawei, Hisilicon | noted |  |  |
| S3-203001 | Structuring key issues per SID objectives | Huawei, Hisilicon | noted |  |  |
| S3-203002 | Adding general clause to key issue part | Huawei, Hisilicon | noted |  |  |
| S3-203003 | Reword the reference description | Huawei, Hisilicon | approved |  |  |
| S3-203004 | Authentication procedure during Xn handover procedure | NEC | revised |  | S3-203474 |
| S3-203005 | DISC Authentication procedure during Xn handover procedure | NEC | noted |  |  |
| S3-203006 | Draft LS to CT6 on the NAS COUNTs storage | Apple | revised |  | S3-203534 |
| S3-203007 | 5GFBS-Edotorial change in Clause 4 | Apple | approved |  |  |
| S3-203008 | 5GFBS- Edotorial change in Clause 5.2.1 | Apple | revised |  | S3-203452 |
| S3-203009 | UPIP-EN addressing in solution#19 | Apple | noted |  |  |
| S3-203010 | UPIP-Evaluation in Solution#18 | Apple | revised |  | S3-203453 |
| S3-203011 | MEC-Addressing the EN on key hierachy in solution#2 | Apple | approved |  |  |
| S3-203012 | MEC-Addressing the EN on EEC ID in solution#2 | Apple | approved |  |  |
| S3-203013 | MEC-Adding the ENs in solution#7 | Apple | approved |  |  |
| S3-203014 | ProSe-Modification in key issue#1 | Apple | revised |  | S3-203448 |
| S3-203015 | ProSe-Modification in key issue#6 | Apple | approved |  |  |
| S3-203016 | pCR to TR33.847-Rapporteur cleaning up work | CATT | approved |  |  |
| S3-203017 | pCR to TR33.847-Update Solution#3 for removing some ENs | CATT | revised |  | S3-203440 |
| S3-203018 | TR 33.845: solution #4 | THALES, KPN | approved |  |  |
| S3-203019 | pCR to TR33.847-Update Solution#4 for removing some ENs | CATT | approved |  |  |
| S3-203020 | Secondary authentication revocation rel15 | Huawei, HiSilicon | revised |  | S3-203515 |
| S3-203021 | Secondary authentication revocation rel16 | Huawei, HiSilicon | revised |  | S3-203516 |
| S3-203022 | Slice privacy protection in NSSAA related procedure | Huawei, HiSilicon | not pursued |  |  |
| S3-203023 | Correction to the Nnssaaf\_NSSAA\_RevocationNotification services | Huawei, HiSilicon | agreed |  |  |
| S3-203024 | clean up to the Nnssaaf\_NSSAA services | Huawei, HiSilicon | agreed |  |  |
| S3-203025 | Aware of AF‘s AKMA service capability in the UE | Huawei, HiSilicon | not pursued |  |  |
| S3-203026 | Solution on key management for UE-to-network relay | Huawei, HiSilicon | revised |  | S3-203432 |
| S3-203027 | Add reference TR33.867 and clean up | Huawei, HiSilicon | revised |  | S3-203441 |
| S3-203028 | Security between the SMF and LDNSR | Huawei, HiSilicon | approved |  |  |
| S3-203029 | Storage of the AKMA keys in the UE | THALES | not pursued |  |  |
| S3-203030 | pCR to TR33.840- Add missing references | CATT | approved |  |  |
| S3-203031 | MBS:Updates to the solutions for 5G MBS authorization revocation | Huawei, Hisilicon | approved |  |  |
| S3-203032 | EC:New key issue on protecting UPF in customer network | Huawei, Hisilicon | noted |  |  |
| S3-203033 | EC: New Key issue on user privacy for UPF in customer network | Huawei, Hisilicon | noted |  |  |
| S3-203034 | EC: New key issue on N4 protection for UPF in customer network | Huawei, Hisilicon | noted |  |  |
| S3-203035 | NPN: New solution to key issue #1 | Huawei, Hisilicon | noted |  |  |
| S3-203036 | NPN: Updates to key issue #1 | Huawei, Hisilicon | noted |  |  |
| S3-203037 | AKMA: Adding missing service definition | Huawei, Hisilicon | revised |  | S3-203518 |
| S3-203038 | LS reply on clarification on AAA server address | Huawei, Hisilicon | noted |  |  |
| S3-203039 | SHA-1 deprecation in GBA | Huawei, Hisilicon | revised |  | S3-203519 |
| S3-203040 | AMFREAL: Description of AMF reallocation procedure | Huawei, Hisilicon | revised |  | S3-203445 |
| S3-203041 | AMFREAL: New key issue on registration failure with AMF reallocation | Huawei, Hisilicon | merged |  | S3-203420 |
| S3-203042 | AMFREAL: New solution to registration failure with AMF reallocation | Huawei, Hisilicon | revised |  | S3-203446 |
| S3-203043 | New requirement on key issue #2 of TR 33.851 | Huawei, Hisilicon | noted |  |  |
| S3-203044 | New solution on key issue #2 of TR 33.851 | Huawei, Hisilicon | noted |  |  |
| S3-203045 | EC: Editor notes removal | Huawei, Hisilicon | revised |  | S3-203457 |
| S3-203046 | NPN: New solution to key issue #1 | Huawei, Hisilicon | noted |  |  |
| S3-203047 | Discussion on MITM attack in vertical LAN | Huawei, Hisilicon | noted |  |  |
| S3-203048 | LS on MITM Attack in CAG | Huawei, Hisilicon | noted |  |  |
| S3-203049 | Input parameters of access token request addition and verification | Huawei, Hisilicon | revised |  | S3-203520 |
| S3-203050 | NF information addition in SBA certificate profile | Huawei, Hisilicon | not pursued |  |  |
| S3-203051 | Clarification on the security policy handling | Huawei, Hisilicon | revised |  | S3-203521 |
| S3-203052 | Discussion on verification of PLMN ID | Huawei, Hisilicon | noted |  |  |
| S3-203053 | Clarification on PLMN ID verification in Rel15 | Huawei, Hisilicon | not pursued |  |  |
| S3-203054 | Clarification on PLMN ID verification in Rel16 | Huawei, Hisilicon | not pursued |  |  |
| S3-203055 | Reply LS on Misalignments on HTTP message format over N32-f | Huawei, Hisilicon | revised |  | S3-203522 |
| S3-203056 | Modification policy clarification in Rel15 | Huawei, Hisilicon | not pursued |  |  |
| S3-203057 | Modification policy clarification in Rel16 | Huawei, Hisilicon | agreed |  | - |
| S3-203058 | Clarification on security policy configuration for TSC services | Huawei, Hisilicon | not pursued |  |  |
| S3-203059 | Threats related to security enforcement configuration for TSC services | Huawei, Hisilicon | revised |  | S3-203524 |
| S3-203060 | New test case on security enforcement configuration for TSC services | Huawei, Hisilicon | revised |  | S3-203525 |
| S3-203061 | 5G ProSe: New key issue on UE-to-UE Relay or UE-to-Network Relay selection | Huawei, Hisilicon | noted |  |  |
| S3-203062 | 5G ProSe: New solution on UE-to-UE Relay or UE-to-Network Relay selection | Huawei, Hisilicon | noted |  |  |
| S3-203063 | 5G ProSe: New solution on e2e authentication between two UE2 in the UE-to-UE relay scenario | Huawei, Hisilicon | revised |  | S3-203442 |
| S3-203064 | EC: New solution on Edge Data Network authentication and authorization for key issue #4 | Huawei, Hisilicon | approved |  |  |
| S3-203065 | EC: New solution on authorization during Edge Data Network change | Huawei, Hisilicon | revised |  | S3-203443 |
| S3-203066 | EC: new solution on exposure for key issue #8 | Huawei, Hisilicon | approved |  |  |
| S3-203067 | EC: Framework on the EEC authentication and authorization | Huawei, Hisilicon | revised |  | S3-203444 |
| S3-203068 | Clarification on security policy configuration for 5G LAN services | Huawei, Hisilicon | not pursued |  |  |
| S3-203069 | Threats related to security enforcement configuration for 5G LAN services | Huawei, Hisilicon | revised |  | S3-203526 |
| S3-203070 | New test case on security enforcement configuration for 5G LAN services | Huawei, Hisilicon | revised |  | S3-203527 |
| S3-203071 | Discussion paper on TAU reject issue during MME handover | Huawei, Hisilicon | noted |  |  |
| S3-203072 | IMS SCAS: living doc for the threats | Huawei, Hisilicon | revised |  | S3-203528 |
| S3-203073 | IMS SCAS: new test case on synchronization failure handling | Huawei, Hisilicon | revised |  | S3-203529 |
| S3-203074 | IMS SCAS: adding threats related to IMS signalling transport | Huawei, Hisilicon | revised |  | S3-203530 |
| S3-203075 | IMS SCAS: new test case on the IMS signaling protection | Huawei, Hisilicon | revised |  | S3-203531 |
| S3-203076 | IMS SCAS: adding threats related to Resynchronization failure | Huawei, Hisilicon | revised |  | S3-203532 |
| S3-203077 | IMS SCAS: Adding the general requirements | Huawei, Hisilicon | revised |  | S3-203533 |
| S3-203078 | IMS SCAS: Adding the assets and threats of the new NFs | Huawei, Hisilicon | noted |  |  |
| S3-203079 | Reply LS to ETSI SAGE on use of 256-bit block Rijndael in Milenage-256 | THALES | revised |  | S3-203550 |
| S3-203080 | TR 33.846: evaluation of solution #2.1 | THALES | approved |  |  |
| S3-203081 | TR 33.846: evaluation of solution #2.2 | THALES | revised |  | S3-203393 |
| S3-203082 | TR 33.846: evaluation of solution #2.4 | THALES | approved |  |  |
| S3-203083 | TR 33.846: conclusion for Key Issue #2.1 | THALES | noted |  |  |
| S3-203084 | TR 33.846: conclusion for Key Issue #4.1 | THALES | noted |  |  |
| S3-203085 | Correction of test case for access token verification failure handling in different PLMN | Nokia, Nokia Shanghai Bell | revised |  | S3-203539 |
| S3-203086 | Reference of general SBA/SBI aspect in 33.512 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203087 | A solution for groupcast security and privacy | Huawei, HiSilicon | revised |  | S3-203462 |
| S3-203088 | Addressing EN in KI#2: scope of pairing authorization | Huawei, HiSilicon | merged |  | S3-203390 |
| S3-203089 | Addressing EN in KI#3: scope of TPAE A&A | Huawei, HiSilicon | noted |  |  |
| S3-203090 | Addressing EN in KI#6: scope of RID security protection | Huawei, HiSilicon | noted |  |  |
| S3-203091 | Addressing EN in KI#7: scope of C2 Security | Huawei, HiSilicon | noted |  |  |
| S3-203092 | A solution to TPAE A&A | Huawei, HiSilicon | noted |  |  |
| S3-203093 | A solutin to UAV and UAV-C pairing authorization | Huawei, HiSilicon, InterDigital | revised |  | S3-203387 |
| S3-203094 | A solution to RID information protection | Huawei, HiSilicon | noted |  |  |
| S3-203095 | A solution to C2 communication security | Huawei, HiSilicon | noted |  |  |
| S3-203096 | Discussion paper for Rel17 SID on network slicing security | Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT, China Unicom, China Mobile, InterDigital | noted |  |  |
| S3-203097 | Rel17 SID on network slice security | Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT, China Unicom, China Mobile, InterDigital | noted |  |  |
| S3-203098 | Discussion on SN-ID in NSSAA | Huawei, HiSilicon | noted |  |  |
| S3-203099 | Serving network ID in NSSAA | Huawei, HiSilicon | not pursued |  |  |
| S3-203100 | Discussion on validity period of NSSAA results | Huawei, HiSilicon | noted |  |  |
| S3-203101 | validity peirod of NSSAA result | Huawei, HiSilicon | not pursued |  |  |
| S3-203102 | Clarification on binding of NSSAI and UE ID at AAA-S | Huawei, HiSilicon | not pursued |  |  |
| S3-203103 | Reference of general SBA/SBI aspect in 33.513 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203104 | Reference of general SBA/SBI aspect in 33.514 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203105 | Reference of general SBA/SBI aspect in 33.515 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203106 | Addessing EN on transmitting NSSAI to AAA | China Mobile | not pursued |  |  |
| S3-203107 | Reference of general SBA/SBI aspect in 33.516 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203108 | Reference of general SBA/SBI aspect in 33.519 | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203109 | Enforcement of password change after initial login R15 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-203110 | Enforcement of password change after initial login R16 | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-203111 | SCAS IMS: Removal of the sub-clause for SBA | Nokia, Nokia Shanghai Bell | revised |  | S3-203540 |
| S3-203112 | New WID on adapting BEST for use in 5G networks | KPN N.V. | revised |  | S3-203484 |
| S3-203113 | Threat of bidding down attack on security association | Nokia, Nokia Shanghai Bell | revised |  | S3-203541 |
| S3-203114 | SCAS IMS: New Sub-Test Case against Bidding-down on Security Association | Nokia, Nokia Shanghai Bell | revised |  | S3-203542 |
| S3-203115 | Updated Threat Analysis of Incorrect Verification of Access Tokens | Nokia, Nokia Shanghai Bell | revised |  | S3-203543 |
| S3-203116 | [DRAFT] LS on DCS mechanisms to authenticate the UE | Ericsson | noted |  |  |
| S3-203117 | Update of the Test Case for Access Token Verification Failure Handling | Nokia, Nokia Shanghai Bell | revised |  | S3-203544 |
| S3-203118 | Threat analysis of inter-PLMN routing using the incorrect reference | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-203119 | Test case for correct handling of inter-PLMN routing | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-203120 | Solution to address the Key issue #2.2 in TR 33.846 | China Mobile | noted |  |  |
| S3-203121 | Update to Key issue #2.2 on SUCI Replay in TR 33.846 | China Mobile | noted |  |  |
| S3-203122 | Need a unified solution to the key issue #2.1 and key issue #4.1 in TR 33.846 | China Mobile | noted |  |  |
| S3-203123 | Propose a conclusion for the key issue #2.1 and key issue #4.1 in TR 33.846 | China Mobile | noted |  |  |
| S3-203124 | Requirements to TR 33.866 on key issue 5.2.1 Cyber-attacks Detection | China Mobile | merged |  | S3-203449 |
| S3-203125 | Proposal to add introduction and NWDAF-specific security functional requirements | China Mobile | revised |  | S3-203489 |
| S3-203126 | Proposal to add security requirement and test cases for hardening about NWDAF | China Mobile | approved |  |  |
| S3-203127 | Proposal to add security requirement and test cases for basic vulnerability testing about NWDAF | China Mobile | approved |  |  |
| S3-203128 | Editorial correction on TR 33.818 | China Mobile | revised |  | S3-203344 |
| S3-203129 | Adding hardening requirements for GVNP of type 1 | China Mobile | revised |  | S3-203346 |
| S3-203130 | Adding hardening requirements for GVNP of type 2 | China Mobile | revised |  | S3-203347 |
| S3-203131 | Adding hardening requirements for GVNP of type 3 | China Mobile | noted |  |  |
| S3-203132 | Adding basic vulnerability testing requirements for GVNP | China Mobile | revised |  | S3-203348 |
| S3-203133 | Adding vendor development and product lifecycle processes and test laboratory accreditation into Clause 6 | China Mobile | noted |  |  |
| S3-203134 | Adding evaluation and SCAS instantiation into clause 7 | China Mobile | noted |  |  |
| S3-203135 | Adding test case into clause 5.2.5.5.8.5.1 | China Mobile | revised |  | S3-203349 |
| S3-203136 | Adding test case into clause 5.2.5.6.6.1 | China Mobile | approved |  |  |
| S3-203137 | Adding impact to existing SECAM-SCAS documents into clause 8.1 | China Mobile | noted |  |  |
| S3-203138 | proposal for way forward | China Mobile | noted |  |  |
| S3-203139 | Key issue on authentication and authorization between MSGin5G Gateway Client and MSGin5G server | China Mobile | approved |  |  |
| S3-203140 | Threat analysis of target API root tampering | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-203141 | [DRAFT] reply-LS on Misalignments on HTTP message format over N32-f | Ericsson | noted |  |  |
| S3-203142 | Corrections for the NRF token request service | Ericsson | revised |  | S3-203537 |
| S3-203143 | Corrections for the NRF token request service | Ericsson | revised |  | S3-203538 |
| S3-203144 | Verification of Serving Network Name in AUSF | Ericsson | not pursued |  |  |
| S3-203145 | SEPP including PLMN-ID and verification of Serving Network Name in AUSF | Ericsson | not pursued |  |  |
| S3-203146 | Resolving Editor's Note on SCP performing token-based authorization on behalf of Network Functions | Ericsson | revised |  | S3-203536 |
| S3-203147 | Resolving Editor's Notes on SCP authorization | Ericsson | merged |  | S3-203501 |
| S3-203148 | Token-based authorization for subsequent service requests in model D | Ericsson | merged |  | S3-203499 |
| S3-203149 | Assertions: partial protection of the message | Ericsson | not pursued |  |  |
| S3-203150 | Assertions: protection of service response | Ericsson | not pursued |  |  |
| S3-203151 | Assertion requirement by the producer | Ericsson | not pursued |  |  |
| S3-203152 | Access token requirement by the producer | Ericsson | not pursued |  |  |
| S3-203153 | Clarification on format for subjectAltName | Ericsson | agreed |  |  |
| S3-203154 | New Solution to KI#1, 2, 3, 6: TLS and HTTP Digest with AKMA | Ericsson | revised |  | S3-203355 |
| S3-203155 | New Solution to KI#3: Authentication to IMS Core using credentials generated with AKMA | Ericsson | noted |  |  |
| S3-203156 | New Solution to KI#3: Authentication to IMS Core using credentials generated from the KAUSF | Ericsson | noted |  |  |
| S3-203157 | Test case for correct handling of the custom HTTP header with PRINS security | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-203158 | 5GFBS: Accuracy of Loaction Estimate for Solution#22 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-203159 | eNPN: revision of SA3 SID | THALES, Orange, Idemia | withdrawn |  |  |
| S3-203160 | 5GFBS: Legitimate BS detected as FBS for Solution#22 | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-203161 | SCAS VNP: Adding Definitions for ETSI NFV Terms | Nokia, Nokia Shanghai Bell | revised |  | S3-203403 |
| S3-203162 | SCAS VNP: DoS Attack via Changing Virtualized Resource | Nokia, Nokia Shanghai Bell | revised |  | S3-203404 |
| S3-203163 | SCAS VNP: Secure Execution Environment | Nokia, Nokia Shanghai Bell | revised |  | S3-203405 |
| S3-203164 | SCAS VNP: Threats on VNF-VNFM Interface | Nokia, Nokia Shanghai Bell | revised |  | S3-203406 |
| S3-203165 | eNPN SID revision | THALES, Orange, Idemia | withdrawn |  |  |
| S3-203166 | SCAS VNP: VM Escape and Hypervisor Escape | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203167 | SCAS VNP: Security requirements on the interface between VNF and VNFM | Nokia, Nokia Shanghai Bell | revised |  | S3-203407 |
| S3-203168 | TR 33.857: scope | THALES, Orange, Idemia | noted |  |  |
| S3-203169 | Issues during authentication for N5GC and N5CW | Ericsson | noted |  |  |
| S3-203170 | Authentication method selection and SUPI retrieval for N5GC | Ericsson | not pursued |  |  |
| S3-203171 | Authentication method selection for N5CW | Ericsson | not pursued |  |  |
| S3-203172 | Solutions sketches for KI#2 (Provisioning of credentials) | Ericsson | noted |  |  |
| S3-203173 | Resolving the ENs in solution #18 | Qualcomm Incorporated | revised |  | S3-203377 |
| S3-203174 | Resolving EN in solution #19 | Qualcomm Incorporated | noted |  |  |
| S3-203175 | Best effort UP IP for EPS | Qualcomm Incorporated | revised |  | S3-203385 |
| S3-203176 | Authentication and authorisation of UAVs | Qualcomm Incorporated | revised | S3-202641 | S3-203386 |
| S3-203177 | Modification of the pairing key issue | Qualcomm Incorporated | revised |  | S3-203390 |
| S3-203178 | Some evaluation of solution #2.2 in TR 33.846 | Qualcomm Incorporated | revised | S3-202644 | S3-203394 |
| S3-203179 | Proposing a conclusion for key issue #4.1 | Qualcomm Incorporated | noted | S3-202647 |  |
| S3-203180 | AMF re-allocation via RAN using existing security states | Qualcomm Incorporated | revised |  | S3-203395 |
| S3-203181 | Specifying existing Ua protocols for use with AKMA | Qualcomm Incorporated | noted |  |  |
| S3-203182 | Solution for secure PC5 link establishment for UE-to-network relay | Qualcomm Incorporated | revised | S3-202648 | S3-203416 |
| S3-203183 | Solution to establish end-to-end security for the L3 UE-to-network relay | Qualcomm Incorporated | revised | S3-202649 | S3-203417 |
| S3-203184 | Solution for secure PC5 link establishment for UE-to-UE relay | Qualcomm Incorporated | revised | S3-202650 | S3-203418 |
| S3-203185 | Key Issue on Impact of Simultaneous CU-UP applying common UP security | Qualcomm Incorporated | noted |  |  |
| S3-203186 | Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options | Qualcomm Incorporated | revised |  | S3-203511 |
| S3-203187 | pCR: High-Level Solution framework for KI#4 | Qualcomm Incorporated | revised |  | S3-203401 |
| S3-203188 | Reply LS on NG-RAN broadcast of Onboarding Network information in the SIB | Qualcomm Incorporated | revised |  | S3-203402 |
| S3-203189 | Multi-USIM security and privacy | Qualcomm Incorporated | noted |  |  |
| S3-203190 | Revised SID on IIoT Security | Qualcomm Incorporated | noted |  |  |
| S3-203191 | Sending UE identifier to the AKMA AF | Qualcomm Incorporated | not pursued |  |  |
| S3-203192 | Addition of UDM sending GPSI of the UE for AKMA | Qualcomm Incorporated | not pursued |  |  |
| S3-203193 | TR 33.857: security assumptions | THALES | noted |  |  |
| S3-203194 | R15 NFc and NFp alignment in static authorization | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203195 | R16 NFc and NFp alignment in static authorization | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203196 | R15 Access Token Get Service - removal of ambigiouty | Nokia, Nokia Shanghai Bell | merged |  | S3-203537 |
| S3-203197 | R16 Access Token Get Service - removal of ambigiouty | Nokia, Nokia Shanghai Bell | merged |  | S3-203538 |
| S3-203198 | R15 Authorization of NF service access - removal of ambigious terminology | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203199 | R16 Authorization of NF service access - removal of ambigious terminology | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203200 | R15 Authorization of NF service access - service requst process steps | Nokia, Nokia Shanghai Bell | revised |  | S3-203502 |
| S3-203201 | R16 Authorization of NF service access - service requst process steps | Nokia, Nokia Shanghai Bell | revised |  | S3-203503 |
| S3-203202 | R16 NF Service Consumer authentication | Nokia, Nokia Shanghai Bell | agreed |  |  |
| S3-203203 | NF-SCP Authorization | Nokia, Nokia Shanghai Bell | revised |  | S3-203501 |
| S3-203204 | SCP-SCP Authorization | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-203205 | Making NF instance id in SBA certificate profile mandatory to support | Nokia, Nokia Shanghai Bell | not pursued |  |  |
| S3-203206 | FS\_eSBA\_SEC | Nokia, Nokia Shanghai Bell | revised |  | S3-203504 |
| S3-203207 | pCR to TR33.840-New key issue for CU-UPs security policy difference | CATT | noted |  |  |
| S3-203208 | IIoT: Update to solution #1 | Ericsson | noted |  |  |
| S3-203209 | IIoT: New solution for protection of time synchronisation messages | Ericsson | approved |  |  |
| S3-203210 | ProSe: Handling of AF’s for key managment | Ericsson | revised |  | S3-203373 |
| S3-203211 | Update of the reference point interface names of AKMA | Ericsson | revised |  | S3-203493 |
| S3-203212 | Discussion on the AAnF selection | Ericsson | noted |  |  |
| S3-203213 | AKMA Anchor Function selection clause | Ericsson | not pursued |  |  |
| S3-203214 | Assumptions for the AMF re-allocation security study | Ericsson | revised |  | S3-203419 |
| S3-203215 | New key issue for the security of the AMF re-allocation procedures | Ericsson | revised |  | S3-203420 |
| S3-203216 | New solution for AMF re-allocation procedure when 5G NAS security context is rerouted via RAN | Ericsson | revised |  | S3-203421 |
| S3-203217 | New solution for NAS re-route via RAN and the use of a well-connected network function | Ericsson | noted |  |  |
| S3-203218 | Editorial corrections | Ericsson | approved |  |  |
| S3-203219 | Living document for TS 33.220: SBA support for Zh and Zn interfaces | Ericsson | revised |  | S3-203545 |
| S3-203220 | Living document for TS 33.223: SBA support for Zpn | Ericsson | revised |  | S3-203546 |
| S3-203221 | pCR to living document for TS 33.223: Resolving EN for private ID in Nbsp\_Gba\_PushInfo service operation response | Ericsson | revised |  | S3-203508 |
| S3-203222 | LS on the SBA for GBA | Ericsson | noted |  |  |
| S3-203223 | pCR to living document for TS 33.220: Resolving EN for GBA AKA | Ericsson | noted |  |  |
| S3-203224 | pCR to living document for TS 33.223: Resolving EN for GBA AKA | Ericsson | noted |  |  |
| S3-203225 | pCR to living document for TS 33.220: Resolving EN for HSS | Ericsson | revised |  | S3-203509 |
| S3-203226 | pCR to living document for TS 33.223: Resolving EN for HSS | Ericsson | revised |  | S3-203510 |
| S3-203227 | Selection of latest KAUSF for SoR/UPU and storage of KAUSF in the UE and AUSF | Ericsson | not pursued |  |  |
| S3-203228 | LS on successful authentication event on the UE for 5G AKA | Ericsson | noted |  |  |
| S3-203229 | New Solution for KI#11: Masked representation of identities | KPN N.V. | revised |  | S3-203341 |
| S3-203230 | Optimized\_UAS\_Enabled\_Authentication | Nokia, Nokia Shanghai Bell | revised |  | S3-203371 |
| S3-203231 | DHIES encryption to avoid UAV spoofing | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203232 | Requirements for KI on multiple working domains | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203233 | Solution on multiple working domains | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203234 | KI update – time synchronization messages | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203235 | KI details Attacks based on asymmetric channel delay | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203236 | KI details TSN AF to NW-TT DS-TT interface security | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203237 | KI requirements and solution TSN AF to NW-TT DS-TT interface security | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203238 | Annex on Security considerations for integration with TSN | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203239 | Authentication and authorization between 5GMSGS client and MSGin5G server | Samsung | revised |  | S3-203365 |
| S3-203240 | Authentication and authorization between 5GMSGS client and MSGin5G server using secondary authentication | Samsung | revised |  | S3-203366 |
| S3-203241 | Transport security for MSGin5G-1 interface | Samsung | approved |  |  |
| S3-203242 | New KI on Authentication and Authorization of Application clients | Samsung | noted |  |  |
| S3-203243 | New KI on Privacy and integrity protection for transmitted data between AF and NWDAF | Samsung | revised |  | S3-203367 |
| S3-203244 | Usecase for User Consent in Edge Computing | Samsung | noted |  |  |
| S3-203245 | Exposed user information in Edge computing | Samsung | noted |  |  |
| S3-203246 | Potential Requirement on user's consent for exposure of information to Edge Applications | Samsung | noted |  |  |
| S3-203247 | User consent for exposure of information to Edge Applications | Samsung | noted |  |  |
| S3-203248 | Resolving editor’s note on using TLS based on AKMA PSK | Samsung | approved |  |  |
| S3-203249 | [Rel-15]Correction to derivation of KSN for dual connectivity | Samsung | agreed |  |  |
| S3-203250 | [Mirror]Correction to derivation of KSN for dual connectivity | Samsung | agreed |  |  |
| S3-203251 | Handling of KAUSF upon successful primary authentication | Samsung, Nokia, Nokia Shanghai Bell, Intel | not pursued |  |  |
| S3-203252 | Discussion on the UE handling newly generated KAUSF | Samsung | noted |  |  |
| S3-203253 | Support for mutual authentication between network entities | Samsung, Verizon | revised |  | S3-203491 |
| S3-203254 | Updates on Rel-16 IAB Conclusions | Samsung | approved |  |  |
| S3-203255 | Clean-up of IAB TR 33.824 | Samsung | approved |  |  |
| S3-203256 | Conclusions for TR 33.845 | Ericsson | noted |  |  |
| S3-203257 | Discussion on the need for a validity timer | Ericsson | noted |  |  |
| S3-203258 | Discussion on the need for SN ID at the AAA-S side | Ericsson | noted |  |  |
| S3-203259 | [DRAFT] LS on the need for SN-ID in NSSAA procedure | Ericsson | noted |  |  |
| S3-203260 | Update to key issue 3.1 | Ericsson | noted |  |  |
| S3-203261 | Potential security requirement to KI 2.1 | Ericsson | noted |  |  |
| S3-203262 | [DRAFT] Reply LS on securing data collection from UE | Ericsson | noted |  |  |
| S3-203263 | New Key Issue on Provisioning of PNI-NPN credentials | Ericsson, China Mobile | noted |  |  |
| S3-203264 | Proposed TR Assumptions on credentials | Ericsson | revised |  | S3-203398 |
| S3-203265 | Adding Subscription Owner terminology | Ericsson | approved |  |  |
| S3-203266 | [DRAFT] LS on AAA based solutions for credentials owned by an entity separate from the SNPN | Ericsson | revised |  | S3-203399 |
| S3-203267 | New Solution: Secure initial access to an SNPN onboarding network | Ericsson | revised |  | S3-203397 |
| S3-203268 | [DRAFT] LS on locating the DCS with the help of SUPI or SUCI | Ericsson | revised |  | S3-203466 |
| S3-203269 | TR 33.847 Update for solution #10 | InterDigital Communications | revised | S3-202820 | S3-203391 |
| S3-203270 | eNA study scope | Nokia, Nokia Shanghai Bell | merged |  | S3-203450 |
| S3-203271 | eNA overview | Nokia, Nokia Shanghai Bell | revised |  | S3-203357 |
| S3-203272 | KI on Authorization of consumers for data access via DCCF | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203273 | KI on privacy preservation for transmitted data | Nokia, Nokia Shanghai Bell | revised |  | S3-203370 |
| S3-203274 | Requirements to KI on privacy preservation for transmitted data | Nokia, Nokia Shanghai Bell | revised |  | S3-203363 |
| S3-203275 | KI on Abnormal NF behavior detection by NWDAF | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203276 | Requirements to KI on Abnormal NF behavior detection by NWDAF | Nokia, Nokia Shanghai Bell | revised |  | S3-203473 |
| S3-203277 | Update to KI Cyber-attacks Detection supported by NWDAF | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-203278 | Key issue on processing of tampered data | Nokia, Nokia Shanghai Bell | revised |  | S3-203359 |
| S3-203279 | Solution on processing of tampered data | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203280 | UPIP: Remove Editor note in evaluation clause in solution #11 | Ericsson | revised |  | S3-203374 |
| S3-203281 | UPIP: Configuration of the UP IP policy | Ericsson | approved |  |  |
| S3-203282 | UPIP: Resolve EN about X2 HO in Solution #11 | Ericsson | revised |  | S3-203375 |
| S3-203283 | UPIP: Resolve EN in Solution #17 | Ericsson | revised |  | S3-203378 |
| S3-203284 | UPIP: New solutions for interworking handover from EPS to 5GS | Ericsson | revised |  | S3-203379 |
| S3-203285 | UPIP: New solution for S1 handover | Ericsson | revised |  | S3-203381 |
| S3-203286 | UPIP: New solution for X2 handover | Ericsson | revised |  | S3-203382 |
| S3-203287 | UPIP: New solutions for interworking handover from 5GS to EPS | Ericsson | revised |  | S3-203384 |
| S3-203288 | UPIP: Conclusion on UE connects to EPC via eUTRA | Ericsson | noted |  |  |
| S3-203289 | Evaluation for Solution #1 | Ericsson | revised |  | S3-203342 |
| S3-203290 | Token-based authorization for indirect communication in roaming case | Ericsson | not pursued |  |  |
| S3-203291 | Discussion on performance requirements of crypto algorithms in virtualized gNB implementations | Ericsson | noted |  |  |
| S3-203292 | UAS: Update of solution #2 | Ericsson | approved |  |  |
| S3-203293 | Key Issue on Security Context handling issues with AMF re-allocation | Lenovo, Motorola Mobility | merged |  | S3-203420 |
| S3-203294 | Evaluation for Solution #2 | Ericsson | revised |  | S3-203343 |
| S3-203295 | Solution to enable NAS Security for AMF reallocation and reroute via RAN Scenario | Lenovo, Motorola Mobility | revised |  | S3-203465 |
| S3-203296 | Update to KI #2 on Pairing authorization for UAV and UAVC | Lenovo, Motorola Mobility | merged |  | S3-203390 |
| S3-203297 | user consent in ProSe restricted discovery | Futurewei Technologies | noted |  |  |
| S3-203298 | Update to Solution #7 on UAS Authentication | Lenovo, Motorola Mobility | approved |  |  |
| S3-203299 | UE accessing most preferred serving NPN | Futurewei Technologies | noted |  |  |
| S3-203300 | Update to Solution 7 to align on UAS NF | Lenovo, Motorola Mobility | approved |  |  |
| S3-203301 | Evaluation for Solution #9 and Solution #11 | Ericsson | noted |  |  |
| S3-203302 | third party gNB-CU-UP | Futurewei Technologies | noted |  |  |
| S3-203303 | Update to Solution #7 to resolve EN in UAS Authentication | Lenovo, Motorola Mobility | noted |  |  |
| S3-203304 | disaggregated gNB secure environment | Futurewei Technologies | noted |  |  |
| S3-203305 | Update to Key Issue #12 – Validity and refresh of security context | KPN N.V. | merged |  | S3-203426 |
| S3-203306 | removal of Editor’s Notes | Ericsson | revised |  | S3-203345 |
| S3-203307 | Update to Key Issue #12 – Out of coverage scenario | KPN N.V. | approved |  |  |
| S3-203308 | New Solution for KI#12: Initial key with validity time | KPN N.V. | revised |  | S3-203340 |
| S3-203309 | Anonymous SUCI for N5GC | Lenovo, Motorola Mobility | not pursued |  |  |
| S3-203310 | Updates to solution #20 (6.20.2.2.4) | CableLabs | revised |  | S3-203471 |
| S3-203311 | Selecting the authentication method for devices that do not support 5GC NAS over WLAN access | Lenovo, Motorola Mobility | not pursued |  |  |
| S3-203312 | eNA: [DRAFT] Reply LS on securing data collection from UE | Ericsson | withdrawn |  |  |
| S3-203313 | Aligning TLS in 33.222 with the current 3GPP TLS profile | Ericsson | revised |  | S3-203505 |
| S3-203314 | Aligning TLS in 33.310 with the current 3GPP TLS profile | Ericsson | agreed |  |  |
| S3-203315 | Correcting use of (D)TLS in 33.501 | Ericsson | revised |  | S3-203506 |
| S3-203316 | Key issue on security of data collection from UE | Ericsson | noted |  |  |
| S3-203317 | Analytics for MitM Attack Detection | Lenovo, Motorola Mobility | noted |  |  |
| S3-203318 | New Key Issue on privacy of PDU session parameters | Philips International B.V., Interdigital | revised |  | S3-203396 |
| S3-203319 | Removal of EN on AMF routing | Lenovo, Motorola Mobility | revised |  | S3-203460 |
| S3-203320 | Removal of EN on ECS in HPLMN | Lenovo, Motorola Mobility | revised |  | S3-203461 |
| S3-203321 | Removal of EN on replay attack | Lenovo, Motorola Mobility | approved |  |  |
| S3-203322 | Proposal to introduce draft-ietf-emu-rfc5448bis to TS 33.501 | Ericsson | noted |  |  |
| S3-203323 | Reply to LS on authorization to access data | NTT DOCOMO | revised |  | S3-203368 |
| S3-203324 | Notes from conf call on NAS COUNT storage | NTT DOCOMO | noted |  |  |
| S3-203325 | Notes from second conf call on NAS COUNT storage | NTT DOCOMO | noted |  |  |
| S3-203326 | Notes from joint ETSI SAGE / SA3 conf call on 256bit keys | NTT DOCOMO | noted |  |  |
| S3-203327 | Applicability of KIs to Solution on SQNms protection by concealment | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-203328 | Ed.note resolution on backward compatibility in solution SQNms protection by concealment | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-203329 | Solution update - SQNms protection by concealment in USIM | Nokia, Nokia Shanghai Bell | approved |  |  |
| S3-203330 | New solution - SQNms protection by concealment in ME | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203331 | Extension of KI on linkability attack | Nokia, Nokia Shanghai Bell | noted |  |  |
| S3-203332 | KI-Solution mapping table | Nokia, Nokia Shanghai Bell | revised |  | S3-203372 |
| S3-203333 | Editorial MCC requested correction | Nokia, Nokia Shanghai Bell | revised |  | S3-203376 |
| S3-203334 | TR 33.847: GBA-based solution to protect PC3 interface | THALES | approved |  |  |
| S3-203335 | Draft TR 33.853 v1.2.0 | Samsung | approved |  |  |
| S3-203336 | Draft TR 33.845 v0.5.0 | Samsung R&D Institute UK | approved |  |  |
| S3-203337 | SA3 meeting calendar | WG Chair | noted |  |  |
| S3-203338 | 256-bit algorithms based on SNOW 3G or SNOW V | ETSI SAGE | postponed |  |  |
| S3-203339 | LS on clarification regarding EEC ID | Ericsson LM | approved |  |  |
| S3-203340 | New Solution for KI#12: Initial key with validity time | KPN N.V. | approved | S3-203308 |  |
| S3-203341 | New Solution for KI#11: Masked representation of identities | KPN N.V. | approved | S3-203229 |  |
| S3-203342 | Evaluation for Solution #1 | Ericsson | approved | S3-203289 |  |
| S3-203343 | Evaluation for Solution #2 | Ericsson | approved | S3-203294 |  |
| S3-203344 | Editorial correction on TR 33.818 | China Mobile | approved | S3-203128 |  |
| S3-203345 | removal of Editor’s Notes | Ericsson | approved | S3-203306 |  |
| S3-203346 | Adding hardening requirements for GVNP of type 1 | China Mobile | approved | S3-203129 |  |
| S3-203347 | Adding hardening requirements for GVNP of type 2 | China Mobile | approved | S3-203130 |  |
| S3-203348 | Adding basic vulnerability testing requirements for GVNP | China Mobile | approved | S3-203132 |  |
| S3-203349 | Adding test case into clause 5.2.5.5.8.5.1 | China Mobile | approved | S3-203135 |  |
| S3-203350 | draft TR33.818 v0.9.0 | China Mobile Com. Corporation | approved |  |  |
| S3-203351 | TR 33.847-Solution for secondary authentication in relay communication | LG Electronics Inc. | approved | S3-202865 |  |
| S3-203352 | TR 33.854 Update for solution#3 | InterDigital, Europe, Ltd. | approved | S3-202874 |  |
| S3-203353 | TR 33.854 Update for solution#4 | InterDigital, Europe, Ltd. | approved | S3-202875 |  |
| S3-203354 | TR 33.854 Update for solution#5 | InterDigital, Europe, Ltd. | approved | S3-202876 |  |
| S3-203355 | New Solution to KI#1, 2, 3, 6: TLS and HTTP Digest with AKMA | Ericsson | approved | S3-203154 |  |
| S3-203356 | LS Reply to SA2 on System support for MUSIM devices | Nokia, Nokia Shanghai Bell | approved | S3-202895 |  |
| S3-203357 | eNA overview | Nokia, Nokia Shanghai Bell | approved | S3-203271 |  |
| S3-203358 | Modified KI#5 for TR 33.847 – privacy of identities for UE2N path switch | InterDigital Communications | approved | S3-202816 |  |
| S3-203359 | Key issue on processing of tampered data | Nokia, Nokia Shanghai Bell | approved | S3-203278 |  |
| S3-203360 | Reply LS on IP address to GPSI translation | Samsung | approved |  |  |
| S3-203361 | Key\_Update\_Need\_And\_Solution | Philips International B.V. | approved | S3-202985 |  |
| S3-203362 | Update of KI#8 for TR 33.847 – privacy of identities for UE2UE Relay path switch | InterDigital Communications | approved | S3-202817 |  |
| S3-203363 | Requirements to KI on privacy preservation for transmitted data | Nokia, Nokia Shanghai Bell | approved | S3-203274 |  |
| S3-203364 | UE&Network-assisted UE avoidance and Network detection of FBS | Philips International B.V., CableLabs | approved | S3-202983 |  |
| S3-203365 | Authentication and authorization between 5GMSGS client and MSGin5G server | Samsung | approved | S3-203239 |  |
| S3-203366 | Authentication and authorization between 5GMSGS client and MSGin5G server using secondary authentication | Samsung | approved | S3-203240 |  |
| S3-203367 | New KI on Privacy and integrity protection for transmitted data between AF and NWDAF | Samsung | approved | S3-203243 |  |
| S3-203368 | Reply to LS on authorization to access data | NTT DOCOMO | approved | S3-203323 |  |
| S3-203369 | New solution for TR 33.847 – Privacy handling for Layer-3 UE-to-UE Relay based on IP routing | InterDigital Communications | approved | S3-202818 |  |
| S3-203370 | KI on privacy preservation for transmitted data | Nokia, Nokia Shanghai Bell | approved | S3-203273 |  |
| S3-203371 | Optimized\_UAS\_Enabled\_Authentication | Nokia, Nokia Shanghai Bell | approved | S3-203230 |  |
| S3-203372 | KI-Solution mapping table | Nokia, Nokia Shanghai Bell | approved | S3-203332 |  |
| S3-203373 | ProSe: Handling of AF’s for key managment | Ericsson | approved | S3-203210 |  |
| S3-203374 | UPIP: Remove Editor note in evaluation clause in solution #11 | Ericsson | approved | S3-203280 |  |
| S3-203375 | UPIP: Resolve EN about X2 HO in Solution #11 | Ericsson | approved | S3-203282 |  |
| S3-203376 | Editorial MCC requested correction | Nokia, Nokia Shanghai Bell | approved | S3-203333 |  |
| S3-203377 | Resolving the ENs in solution #18 | Qualcomm Incorporated | approved | S3-203173 |  |
| S3-203378 | UPIP: Resolve EN in Solution #17 | Ericsson | approved | S3-203283 |  |
| S3-203379 | UPIP: New solutions for interworking handover from EPS to 5GS | Ericsson | approved | S3-203284 |  |
| S3-203380 | Draft TR 33.845 v0.6.0 | Vodafone GmbH | approved |  |  |
| S3-203381 | UPIP: New solution for S1 handover | Ericsson | approved | S3-203285 |  |
| S3-203382 | UPIP: New solution for X2 handover | Ericsson | approved | S3-203286 |  |
| S3-203383 | Draft TR 33.853 v1.3.0 | Vodafone GmbH | approved |  |  |
| S3-203384 | UPIP: New solutions for interworking handover from 5GS to EPS | Ericsson | approved | S3-203287 |  |
| S3-203385 | Best effort UP IP for EPS | Qualcomm Incorporated | approved | S3-203175 |  |
| S3-203386 | Authentication and authorisation of UAVs | Qualcomm Incorporated | approved | S3-203176 |  |
| S3-203387 | A solutin to UAV and UAV-C pairing authorization | Huawei, HiSilicon, InterDigital | approved | S3-203093 |  |
| S3-203388 | Draft TR 33.846 v0.9.0 Study on authentication enhancements in the 5G System (5GS) | Ericsson España S.A. | approved |  |  |
| S3-203389 | TR\_33.851\_IIoT\_Sec | Nokia Germany | approved |  |  |
| S3-203390 | Modification of the pairing key issue | Qualcomm Incorporated, Interdigital, Huawei, HiSilicon, Lenovo, Motorola Mobility | approved | S3-203177 |  |
| S3-203391 | TR 33.847 Update for solution #10 | InterDigital Communications | approved | S3-203269 |  |
| S3-203392 | Draft TR 33.864 v0.2.0 Study on the security of Access and Mobility Management Function (AMF) re-allocation | Ericsson España S.A. | approved |  |  |
| S3-203393 | TR 33.846: evaluation of solution #2.2 | THALES | approved | S3-203081 |  |
| S3-203394 | Some evaluation of solution #2.2 in TR 33.846 | Qualcomm Incorporated | approved | S3-203178 |  |
| S3-203395 | AMF re-allocation via RAN using existing security states | Qualcomm Incorporated | approved | S3-203180 |  |
| S3-203396 | New Key Issue on privacy of PDU session parameters | Philips International B.V., Interdigital | approved | S3-203318 |  |
| S3-203397 | New Solution: Secure initial access to an SNPN onboarding network | Ericsson | approved | S3-203267 |  |
| S3-203398 | Proposed TR Assumptions on credentials | Ericsson | approved | S3-203264 |  |
| S3-203399 | LS on AAA based solutions for credentials owned by an entity separate from the SNPN | Ericsson, ZTE | approved | S3-203266 |  |
| S3-203400 | Draft TR 33857 v030 Study on enhanced security support for Non-Public Networks (NPN) | Ericsson | approved |  |  |
| S3-203401 | pCR: High-Level Solution framework for KI#4 | Qualcomm Incorporated | approved | S3-203187 |  |
| S3-203402 | Reply LS on NG-RAN broadcast of Onboarding Network information in the SIB | Qualcomm Incorporated | approved | S3-203188 |  |
| S3-203403 | SCAS VNP: Adding Definitions for ETSI NFV Terms | Nokia, Nokia Shanghai Bell | approved | S3-203161 |  |
| S3-203404 | SCAS VNP: DoS Attack via Changing Virtualized Resource | Nokia, Nokia Shanghai Bell | approved | S3-203162 |  |
| S3-203405 | SCAS VNP: Secure Execution Environment | Nokia, Nokia Shanghai Bell | approved | S3-203163 |  |
| S3-203406 | SCAS VNP: Threats on VNF-VNFM Interface | Nokia, Nokia Shanghai Bell | approved | S3-203164 |  |
| S3-203407 | SCAS VNP: Security requirements on the interface between VNF and VNFM | Nokia, Nokia Shanghai Bell | approved | S3-203167 |  |
| S3-203408 | Key Issue for Busy Indication | Intel Corporation (UK) Ltd | approved | S3-202935 |  |
| S3-203409 | Key Issue for UE and Paging Server Communication | Intel Corporation (UK) Ltd | approved | S3-202937 |  |
| S3-203410 | Scope for MUSIM TR | Intel Corporation (UK) Ltd | approved | S3-202940 |  |
| S3-203411 | draft TR Study on the security of the system enablers for devices having multiple Universal Subscriber Identity Modules | Intel | approved |  |  |
| S3-203412 | Authentication and Authorization Framework for EDGE-4 interfaces using Primary authentication and proxy interface | Intel Corporation (UK) Ltd | approved | S3-202931 |  |
| S3-203413 | Updates to Solution 4 | Intel Corporation (UK) Ltd | approved | S3-202932 |  |
| S3-203414 | Updates to Solution 12 | Intel Corporation (UK) Ltd | approved | S3-202933 |  |
| S3-203415 | TR33.840 v0.2.0 | China Telecommunications | approved |  |  |
| S3-203416 | Solution for secure PC5 link establishment for UE-to-network relay | Qualcomm Incorporated | approved | S3-203182 |  |
| S3-203417 | Solution to establish end-to-end security for the L3 UE-to-network relay | Qualcomm Incorporated | approved | S3-203183 |  |
| S3-203418 | Solution for secure PC5 link establishment for UE-to-UE relay | Qualcomm Incorporated | approved | S3-203184 |  |
| S3-203419 | Assumptions for the AMF re-allocation security study | Ericsson | approved | S3-203214 |  |
| S3-203420 | New key issue for the security of the AMF re-allocation procedures | Ericsson, Huawei, Hisilicon, China Mobile, Lenovo, Motorola Mobility | approved | S3-203215 |  |
| S3-203421 | New solution for AMF re-allocation procedure when 5G NAS security context is rerouted via RAN | Ericsson | approved | S3-203216 |  |
| S3-203422 | Add some abbreviations for TR 33.850 | ZTE Corporation | approved | S3-202919 |  |
| S3-203423 | New solution for key issue#1 in TR 33.850 | ZTE Corporation | approved | S3-202920 |  |
| S3-203424 | Update solution#3 in TR 33.850 | ZTE Corporation | approved | S3-202921 |  |
| S3-203425 | Update to Sol#7 to address EN and add evaluation | Huawei, Hisilicon | approved | S3-202956 |  |
| S3-203426 | Propose to resolve EN in the security requirement of KI#12 | Huawei, Hisilicon, KPN | approved | S3-202957 |  |
| S3-203427 | new key issue on the security protection between content provider and 5GC | Huawei, Hisilicon | approved | S3-202964 |  |
| S3-203428 | new solution on the security protection between content provider and 5GC | Huawei, Hisilicon | approved | S3-202965 |  |
| S3-203429 | Solving the editoral note in solution 2 | Huawei, Hisilicon | approved | S3-202966 |  |
| S3-203430 | security solution for UE-to-Network Relay based on Layer 2 Relay | Huawei, Hisilicon | approved | S3-202968 |  |
| S3-203431 | Delete Editor's Note in solution 9 | Huawei, Hisilicon | approved | S3-202971 |  |
| S3-203432 | Solution on key management for UE-to-network relay | Huawei, Hisilicon | approved | S3-203026 |  |
| S3-203433 | Update key issue #1 in TR 33.839 | CATT | approved | S3-202897 |  |
| S3-203434 | Update Key issue #2 in TR 33.839 | CATT | approved | S3-202898 |  |
| S3-203435 | Update Solution #6 in TR 33.839 | CATT | approved | S3-202899 |  |
| S3-203436 | Draft TR 33.839 v0.3.0 | HUAWEI TECHNOLOGIES Co. Ltd. | approved |  |  |
| S3-203437 | Update Solution #10 in TR 33.839 | CATT | approved | S3-202927 |  |
| S3-203438 | New solution on UE onboarding for SNPN with AAA-S as DCS | ZTE Corporation | approved | S3-202922 |  |
| S3-203439 | New solution on UE onboarding for SNPN with UDM as DCS | ZTE Corporation | approved | S3-202923 |  |
| S3-203440 | pCR to TR33.847-Update Solution#3 for removing some ENs | CATT | approved | S3-203017 |  |
| S3-203441 | Add reference TR33.867 and clean up | Huawei, Hisilicon, CATT | approved | S3-203027 |  |
| S3-203442 | 5G ProSe: New solution on e2e authentication between two UE2 in the UE-to-UE relay scenario | Huawei, Hisilicon | approved | S3-203063 |  |
| S3-203443 | EC: New solution on authorization during Edge Data Network change | Huawei, Hisilicon | approved | S3-203065 |  |
| S3-203444 | EC: Framework on the EEC authentication and authorization | Huawei, Hisilicon | approved | S3-203067 |  |
| S3-203445 | AMFREAL: Description of AMF reallocation procedure | Huawei, Hisilicon | approved | S3-203040 |  |
| S3-203446 | AMFREAL: New solution to registration failure with AMF reallocation | Huawei, Hisilicon | approved | S3-203042 |  |
| S3-203447 | TR 33.809-5GFBS | Apple Computer Trading Co. Ltd | approved |  |  |
| S3-203448 | ProSe-Modification in key issue#1 | Apple | approved | S3-203014 |  |
| S3-203449 | Add Security Requirement for Key Issue #2.1 | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell, China Mobile | approved | S3-202993 |  |
| S3-203450 | Scope of eNA Security | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | approved | S3-202995 |  |
| S3-203451 | Scope of User Consent for 3GPP Services | Huawei, Hisilicon | approved | S3-202996 |  |
| S3-203452 | 5GFBS- Edotorial change in Clause 5.2.1 | Apple | approved | S3-203008 |  |
| S3-203453 | UPIP-Evaluation in Solution#18 | Apple | approved | S3-203010 |  |
| S3-203454 | UP IP-Update solution #11 | Huawei, Hisilicon | approved | S3-202979 |  |
| S3-203455 | Draft TR 33.850 | Huawei, Hisilicon | approved |  |  |
| S3-203456 | Draft TR33.824 v0.7.0 | Samsung | approved |  |  |
| S3-203457 | EC: Editor notes removal | Huawei, Hisilicon | approved | S3-203045 |  |
| S3-203458 | Draft TR 33.867 | Huawei,Hisilicon | approved |  |  |
| S3-203459 | Draft TR 33.847 v0.3.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS | CATT | approved |  |  |
| S3-203460 | Removal of EN on AMF routing | Lenovo, Motorola Mobility | approved | S3-203319 |  |
| S3-203461 | Removal of EN on ECS in HPLMN | Lenovo, Motorola Mobility | approved | S3-203320 |  |
| S3-203462 | A solution for groupcast security and privacy | Huawei, HiSilicon, Lenovo, Motorola Mobility | approved | S3-203087 |  |
| S3-203463 | draft TR 33.866 0.2.0 | China Mobile International Ltd | approved |  |  |
| S3-203464 | draft TR 33.862 0.2.0 | China Mobile International Ltd | approved |  |  |
| S3-203465 | Solution to enable NAS Security for AMF reallocation and reroute via RAN Scenario | Lenovo, Motorola Mobility | approved | S3-203295 |  |
| S3-203466 | LS on locating the DCS with the help of SUPI or SUCI | Ericsson | approved | S3-203268 |  |
| S3-203467 | TR 33.854 v0.3.0 | Qualcomm Incoporated | approved |  |  |
| S3-203468 | Updates to solution #3 | CableLabs | approved | S3-202888 |  |
| S3-203469 | New solution for Key Issue #1 with enhanced security of KAUSF | CableLabs | approved | S3-202890 |  |
| S3-203470 | Updates to solution #20 (6.20.4) | CableLabs, Interdigital, Apple, Deutsche Telekom AG, Intel, Rogers Communications, Philips | approved | S3-202893 |  |
| S3-203471 | Updates to solution #20 (6.20.2.2.4) | CableLabs | approved | S3-203310 |  |
| S3-203472 | CVD process update | WG chair | noted |  |  |
| S3-203473 | Requirements to KI on Abnormal NF behavior detection by NWDAF | Nokia, Nokia Shanghai Bell | approved | S3-203276 |  |
| S3-203474 | Authentication procedure during Xn handover procedure | NEC | revised | S3-203004 | S3-203475 |
| S3-203475 | Authentication procedure during Xn handover procedure | NEC | not pursued | S3-203474 |  |
| S3-203476 | NAS COUNT storage for multiple PLMN | Nokia, Nokia Shanghai Bell | agreed | S3-202889 |  |
| S3-203477 | Draft agenda for SA3#101bis-e | WG chair | noted |  |  |
| S3-203478 | Draft agenda for SA3#102-e | WG chair | noted |  |  |
| S3-203479 | Process and agenda presentation for SA3#101e | WG chair | noted |  |  |
| S3-203480 | Clarification on cross-layer indication triggered by updating the security context | Huawei, Hisilicon, LG Electronics | agreed | S3-202952 |  |
| S3-203481 | Proposal for improvement of the user plane security policy handling logic | Huawei, Hisilicon, Interdigital | agreed | S3-202953 |  |
| S3-203482 | Adding details of AKMA key generation in the UE | Huawei, Hisilicon | agreed | S3-202963 |  |
| S3-203483 | Reply LS on the re-keying procedure for NR SL | LG Electronics Inc. | approved |  |  |
| S3-203484 | New WID on adapting BEST for use in 5G networks | KPN N.V. | agreed | S3-203112 |  |
| S3-203485 | Revised WID of AKMA | China Mobile | agreed | S3-202871 |  |
| S3-203486 | CR for AKMA changes to TS 33.501 in Rel-17 | China Mobile International Ltd | agreed | S3-202872 |  |
| S3-203487 | CR for AKMA changes to TS 33.220 in Rel-17 | China Mobile | agreed | S3-202873 |  |
| S3-203488 | CR Removal of AKMA changes to TS 33.220 in Rel-16 | China Mobile | agreed | S3-202870 |  |
| S3-203489 | Proposal to add introduction and NWDAF-specific security functional requirements | China Mobile | approved | S3-203125 |  |
| S3-203490 | draft TS 33.521v0.2.0 | China Mobile Com. Corporation | approved |  |  |
| S3-203491 | Support for mutual authentication between network entities | Samsung, Verizon, Nokia, Nokia Shanghai Bell | agreed | S3-203253 |  |
| S3-203492 | LS on Physical layer assisted lightweight AKA (PL-AKA) protocol for the Internet of things | Ericsson España S.A. | approved |  |  |
| S3-203493 | Update of the reference point interface names of AKMA | Ericsson | agreed | S3-203211 |  |
| S3-203494 | LS on AKMA Anchor Function selection | Ericsson España S.A. | approved |  |  |
| S3-203495 | LS: Misalignment on requirement for access token request between TS 29.510 and 33.501 | Mavenir | approved | S3-202805 |  |
| S3-203496 | NRF authorization during NF service consumer Access Token Get Request | Mavenir, Nokia, Nokia Shanghai Bell | agreed | S3-202809 |  |
| S3-203497 | NRF authorization during NF service consumer Access Token Get Request | Mavenir, Nokia, Nokia Shanghai Bell | agreed | S3-202808 |  |
| S3-203498 | Reply LS on threats of service disruption, SIP message alternation and content eavesdropping in 5G networks | SK Telecom | approved |  |  |
| S3-203499 | Re-using of access token in indirect communication with delegated discovery | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Huawei, HiSilicon, CableLabs | agreed | S3-202883 |  |
| S3-203500 | Reply LS on Observations and questions on 256-bit security goals | Ericsson | approved |  |  |
| S3-203501 | NF-SCP Authorization | Nokia, Nokia Shanghai Bell, Ericsson | agreed | S3-203203 |  |
| S3-203502 | R15 Authorization of NF service access - service requst process steps | Nokia, Nokia Shanghai Bell | agreed | S3-203200 |  |
| S3-203503 | R16 Authorization of NF service access - service requst process steps | Nokia, Nokia Shanghai Bell | agreed | S3-203201 |  |
| S3-203504 | FS\_eSBA\_SEC | Nokia, Nokia Shanghai Bell, Mavenir, CableLabs, Deutsche Telekom, Verizon, Vodafone, T-Mobile, Docomo, China Mobile, Huawei, HiSilicon, Samsung | agreed | S3-203206 |  |
| S3-203505 | Aligning TLS in 33.222 with the current 3GPP TLS profile | Ericsson | agreed | S3-203313 |  |
| S3-203506 | Correcting use of (D)TLS in 33.501 | Ericsson | agreed | S3-203315 |  |
| S3-203507 | Error correction and clarification of Annex O | CableLabs | not pursued | S3-202887 |  |
| S3-203508 | pCR to living document for TS 33.223: Resolving EN for private ID in Nbsp\_Gba\_PushInfo service operation response | Ericsson | approved | S3-203221 |  |
| S3-203509 | pCR to living document for TS 33.220: Resolving EN for HSS | Ericsson | approved | S3-203225 |  |
| S3-203510 | pCR to living document for TS 33.223: Resolving EN for HSS | Ericsson | approved | S3-203226 |  |
| S3-203511 | Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options | Qualcomm Incorporated | approved | S3-203186 |  |
| S3-203512 | Living CR toTR33.926 for eSCAS | Huawei, Hisilicon | approved | S3-202973 |  |
| S3-203513 | Living CR to TS33.117 | Huawei, Hisilicon | approved | S3-202974 |  |
| S3-203514 | skeleton of NSSAAF SCAS | Huawei, Hisilicon | approved | S3-202975 |  |
| S3-203515 | Secondary authentication revocation rel15 | Huawei, HiSilicon | agreed | S3-203020 |  |
| S3-203516 | Secondary authentication revocation rel16 | Huawei, HiSilicon | agreed | S3-203021 |  |
| S3-203517 | Draft TS 33.226 v0.3.0 | Huawei, Hisilicon | approved |  |  |
| S3-203518 | AKMA: Adding missing service definition | Huawei, Hisilicon | withdrawn | S3-203037 |  |
| S3-203519 | SHA-1 deprecation in GBA | Huawei, Hisilicon | agreed | S3-203039 |  |
| S3-203520 | Input parameters of access token request addition and verification | Huawei, Hisilicon | agreed | S3-203049 |  |
| S3-203521 | Clarification on the security policy handling | Huawei, Hisilicon | agreed | S3-203051 |  |
| S3-203522 | Reply LS on Misalignments on HTTP message format over N32-f | Huawei, Hisilicon | approved | S3-203055 |  |
| S3-203523 | Modification policy clarification in Rel16 | Huawei, Hisilicon | withdrawn | - |  |
| S3-203524 | Threats related to security enforcement configuration for TSC services | Huawei, Hisilicon | approved | S3-203059 |  |
| S3-203525 | New test case on security enforcement configuration for TSC services | Huawei, Hisilicon | approved | S3-203060 |  |
| S3-203526 | Threats related to security enforcement configuration for 5G LAN services | Huawei, Hisilicon | approved | S3-203069 |  |
| S3-203527 | New test case on security enforcement configuration for 5G LAN services | Huawei, Hisilicon | approved | S3-203070 |  |
| S3-203528 | IMS SCAS: living doc for the threats | Huawei, Hisilicon | approved | S3-203072 |  |
| S3-203529 | IMS SCAS: new test case on synchronization failure handling | Huawei, Hisilicon | approved | S3-203073 |  |
| S3-203530 | IMS SCAS: adding threats related to IMS signalling transport | Huawei, Hisilicon | approved | S3-203074 |  |
| S3-203531 | IMS SCAS: new test case on the IMS signaling protection | Huawei, Hisilicon | approved | S3-203075 |  |
| S3-203532 | IMS SCAS: adding threats related to Resynchronization failure | Huawei, Hisilicon | approved | S3-203076 |  |
| S3-203533 | IMS SCAS: Adding the general requirements | Huawei, Hisilicon | approved | S3-203077 |  |
| S3-203534 | LS to CT6 on the NAS COUNTs storage | Apple | approved | S3-203006 |  |
| S3-203535 | Corrections of clause 6.1 | CATT | agreed | S3-202944 |  |
| S3-203536 | Resolving Editor's Note on SCP performing token-based authorization on behalf of Network Functions | Ericsson | agreed | S3-203146 |  |
| S3-203537 | Corrections for the NRF token request service | Ericsson | agreed | S3-203142 |  |
| S3-203538 | Corrections for the NRF token request service | Ericsson | agreed | S3-203143 |  |
| S3-203539 | Correction of test case for access token verification failure handling in different PLMN | Nokia, Nokia Shanghai Bell | agreed | S3-203085 |  |
| S3-203540 | SCAS IMS: Removal of the sub-clause for SBA | Nokia, Nokia Shanghai Bell | approved | S3-203111 |  |
| S3-203541 | Threat of bidding down attack on security association | Nokia, Nokia Shanghai Bell | approved | S3-203113 |  |
| S3-203542 | SCAS IMS: New Sub-Test Case against Bidding-down on Security Association | Nokia, Nokia Shanghai Bell | approved | S3-203114 |  |
| S3-203543 | Updated Threat Analysis of Incorrect Verification of Access Tokens | Nokia, Nokia Shanghai Bell | approved | S3-203115 |  |
| S3-203544 | Update of the Test Case for Access Token Verification Failure Handling | Nokia, Nokia Shanghai Bell | approved | S3-203117 |  |
| S3-203545 | Living document for TS 33.220: SBA support for Zh and Zn interfaces | Ericsson | approved | S3-203219 |  |
| S3-203546 | Living document for TS 33.223: SBA support for Zpn | Ericsson | approved | S3-203220 |  |
| S3-203547 | Living CR to 33.514 | Huawei, Hisilicon | approved |  |  |
| S3-203548 | Living CR to 33.517 | Huawei, Hisilicon | approved |  |  |
| S3-203549 | TS 33.326 | Huawei, Hisilicon | approved |  |  |
| S3-203550 | Reply LS to ETSI SAGE on use of 256-bit block Rijndael in Milenage-256 | THALES | approved | S3-203079 |  |
| S3-203551 | [33.180] R16 Fix terminology | Airbus | agreed | S3-202880 | - |
| S3-203552 | [33.180] R17 Fix terminology | Airbus | agreed | S3-202881 | - |

### A2: Tdoc decision timing

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| --- | --- | --- |
| Document | Date/time UTC | Decision |
| S3-202800 | 09/11/2020 08:51:32 | approved |
| S3-202801 | 09/11/2020 13:06:30 | approved |
| S3-202802 | 09/11/2020 13:06:30 | approved |
| S3-202803 | 09/11/2020 13:06:27 | noted |
| S3-202804 | 09/11/2020 13:08:26 | noted |
| S3-202806 | 24/11/2020 16:35:07 | noted |
| S3-202811 | 26/11/2020 10:15:14 | noted |
| S3-202812 | 26/11/2020 10:15:18 | approved |
| S3-202813 | 25/11/2020 15:06:08 | agreed |
| S3-202814 | 25/11/2020 15:06:13 | agreed |
| S3-202815 | 24/11/2020 16:24:47 | noted |
| S3-202819 | 25/11/2020 17:02:44 | agreed |
| S3-202821 | 24/11/2020 16:32:36 | noted |
| S3-202822 | 26/11/2020 12:15:23 | noted |
| S3-202823 | 24/11/2020 16:29:08 | available |
| S3-202824 | 24/11/2020 16:29:42 | noted |
| S3-202825 | 25/11/2020 16:40:40 | postponed |
| S3-202826 | 25/11/2020 16:43:02 | noted |
| S3-202827 | 25/11/2020 16:45:13 | noted |
| S3-202828 | 25/11/2020 16:46:29 | available |
| S3-202829 | 26/11/2020 14:47:26 | noted |
| S3-202830 | 24/11/2020 16:32:47 | noted |
| S3-202831 | 24/11/2020 16:32:55 | noted |
| S3-202832 | 24/11/2020 16:36:49 | available |
| S3-202833 | 25/11/2020 15:15:37 | noted |
| S3-202834 | 25/11/2020 15:08:05 | noted |
| S3-202835 | 26/11/2020 10:01:17 | postponed |
| S3-202836 | 24/11/2020 16:33:02 | postponed |
| S3-202837 | 26/11/2020 14:10:47 | available |
| S3-202838 | 26/11/2020 13:41:15 | postponed |
| S3-202839 | 26/11/2020 12:23:28 | noted |
| S3-202840 | 26/11/2020 14:51:45 | available |
| S3-202841 | 26/11/2020 14:41:13 | postponed |
| S3-202842 | 25/11/2020 16:43:06 | noted |
| S3-202843 | 25/11/2020 16:43:10 | noted |
| S3-202844 | 26/11/2020 14:12:32 | available |
| S3-202845 | 26/11/2020 14:41:54 | available |
| S3-202846 | 26/11/2020 13:41:22 | noted |
| S3-202847 | 25/11/2020 16:29:57 | noted |
| S3-202848 | 25/11/2020 16:34:21 | available |
| S3-202849 | 26/11/2020 12:24:04 | available |
| S3-202850 | 26/11/2020 10:13:02 | postponed |
| S3-202851 | 24/11/2020 16:30:40 | available |
| S3-202852 | 24/11/2020 16:31:42 | postponed |
| S3-202853 | 24/11/2020 16:27:24 | available |
| S3-202854 | 24/11/2020 16:25:44 | noted |
| S3-202855 | 24/11/2020 16:27:15 | available |
| S3-202856 | 24/11/2020 16:26:00 | postponed |
| S3-202856 | 24/11/2020 16:27:54 | noted |
| S3-202857 | 24/11/2020 16:26:15 | postponed |
| S3-202858 | 24/11/2020 16:27:48 | noted |
| S3-202859 | 24/11/2020 16:26:21 | noted |
| S3-202860 | 24/11/2020 16:33:18 | noted |
| S3-202861 | 25/11/2020 16:40:50 | noted |
| S3-202862 | 24/11/2020 16:33:26 | noted |
| S3-202863 | 26/11/2020 14:53:02 | approved |
| S3-202864 | 26/11/2020 13:41:54 | noted |
| S3-202866 | 26/11/2020 10:01:28 | approved |
| S3-202867 | 26/11/2020 14:58:47 | noted |
| S3-202868 | 25/11/2020 15:15:57 | agreed |
| S3-202869 | 25/11/2020 15:16:11 | agreed |
| S3-202877 | 26/11/2020 12:20:39 | available |
| S3-202878 | 26/11/2020 14:58:25 | noted |
| S3-202879 | 26/11/2020 14:58:36 | noted |
| S3-202880 | 25/11/2020 15:08:10 | agreed |
| S3-202880 | 27/11/2020 13:13:14 | revised |
| S3-202881 | 25/11/2020 16:59:55 | agreed |
| S3-202881 | 27/11/2020 13:13:17 | revised |
| S3-202882 | 25/11/2020 16:46:47 | agreed |
| S3-202884 | 25/11/2020 16:48:30 | agreed |
| S3-202885 | 26/11/2020 14:01:49 | approved |
| S3-202886 | 26/11/2020 14:17:39 | available |
| S3-202891 | 26/11/2020 10:02:52 | noted |
| S3-202892 | 26/11/2020 10:02:59 | noted |
| S3-202894 | 26/11/2020 14:25:28 | noted |
| S3-202896 | 26/11/2020 12:26:47 | available |
| S3-202900 | 25/11/2020 15:07:12 | available |
| S3-202901 | 25/11/2020 16:38:24 | available |
| S3-202902 | 25/11/2020 16:35:56 | available |
| S3-202903 | 25/11/2020 16:34:57 | available |
| S3-202904 | 25/11/2020 16:36:04 | available |
| S3-202905 | 25/11/2020 16:36:33 | available |
| S3-202906 | 25/11/2020 16:37:01 | available |
| S3-202907 | 25/11/2020 16:38:44 | available |
| S3-202908 | 25/11/2020 16:38:07 | available |
| S3-202909 | 25/11/2020 16:38:11 | agreed |
| S3-202910 | 25/11/2020 16:38:47 | available |
| S3-202911 | 25/11/2020 17:00:48 | noted |
| S3-202912 | 17/11/2020 14:14:27 | noted |
| S3-202913 | 26/11/2020 10:15:24 | noted |
| S3-202914 | 26/11/2020 10:15:28 | noted |
| S3-202915 | 26/11/2020 10:15:40 | noted |
| S3-202916 | 26/11/2020 10:13:09 | noted |
| S3-202917 | 26/11/2020 10:13:18 | approved |
| S3-202918 | 26/11/2020 12:27:30 | noted |
| S3-202924 | 26/11/2020 14:11:24 | available |
| S3-202925 | 26/11/2020 14:47:30 | noted |
| S3-202926 | 26/11/2020 14:47:49 | noted |
| S3-202928 | 26/11/2020 12:27:44 | approved |
| S3-202929 | 26/11/2020 14:16:36 | noted |
| S3-202930 | 26/11/2020 14:17:12 | available |
| S3-202934 | 26/11/2020 14:53:46 | available |
| S3-202936 | 26/11/2020 14:54:19 | noted |
| S3-202938 | 26/11/2020 14:55:01 | available |
| S3-202939 | 26/11/2020 14:07:31 | noted |
| S3-202941 | 26/11/2020 14:55:30 | noted |
| S3-202942 | 26/11/2020 14:55:37 | noted |
| S3-202943 | 26/11/2020 10:02:39 | noted |
| S3-202945 | 25/11/2020 16:39:15 | agreed |
| S3-202946 | 25/11/2020 17:05:31 | noted |
| S3-202947 | 25/11/2020 17:05:42 | available |
| S3-202948 | 25/11/2020 17:05:51 | available |
| S3-202949 | 26/11/2020 14:44:24 | noted |
| S3-202950 | 25/11/2020 16:34:07 | approved |
| S3-202951 | 25/11/2020 17:05:06 | available |
| S3-202954 | 26/11/2020 13:44:42 | noted |
| S3-202955 | 26/11/2020 13:44:51 | noted |
| S3-202958 | 26/11/2020 10:13:23 | noted |
| S3-202959 | 26/11/2020 14:50:46 | noted |
| S3-202960 | 26/11/2020 14:50:50 | noted |
| S3-202961 | 26/11/2020 14:50:55 | noted |
| S3-202962 | 26/11/2020 14:51:01 | noted |
| S3-202967 | 25/11/2020 16:35:01 | available |
| S3-202969 | 26/11/2020 10:03:37 | noted |
| S3-202970 | 26/11/2020 13:42:20 | noted |
| S3-202972 | 25/11/2020 16:56:41 | approved |
| S3-202976 | 25/11/2020 16:59:13 | approved |
| S3-202977 | 25/11/2020 16:58:37 | noted |
| S3-202978 | 25/11/2020 16:58:40 | noted |
| S3-202980 | 26/11/2020 14:18:35 | noted |
| S3-202981 | 26/11/2020 14:19:38 | noted |
| S3-202982 | 26/11/2020 15:03:09 | withdrawn |
| S3-202984 | 26/11/2020 10:03:17 | noted |
| S3-202986 | 25/11/2020 17:04:04 | available |
| S3-202987 | 26/11/2020 14:07:47 | noted |
| S3-202988 | 26/11/2020 14:02:37 | noted |
| S3-202989 | 26/11/2020 14:03:27 | noted |
| S3-202990 | 26/11/2020 14:05:10 | noted |
| S3-202991 | 26/11/2020 14:08:36 | noted |
| S3-202992 | 26/11/2020 14:17:53 | noted |
| S3-202994 | 26/11/2020 14:42:22 | noted |
| S3-202997 | 26/11/2020 14:23:43 | noted |
| S3-202998 | 26/11/2020 14:24:28 | noted |
| S3-202999 | 26/11/2020 14:24:36 | noted |
| S3-203000 | 26/11/2020 14:24:52 | noted |
| S3-203001 | 26/11/2020 14:24:41 | noted |
| S3-203002 | 26/11/2020 14:24:45 | noted |
| S3-203003 | 26/11/2020 14:25:37 | approved |
| S3-203005 | 26/11/2020 10:00:56 | noted |
| S3-203007 | 26/11/2020 10:03:20 | approved |
| S3-203009 | 26/11/2020 10:08:34 | noted |
| S3-203011 | 26/11/2020 12:28:10 | approved |
| S3-203012 | 26/11/2020 12:28:13 | approved |
| S3-203013 | 26/11/2020 12:28:16 | approved |
| S3-203015 | 26/11/2020 13:42:40 | approved |
| S3-203016 | 26/11/2020 13:47:23 | approved |
| S3-203018 | 26/11/2020 12:14:41 | approved |
| S3-203019 | 26/11/2020 13:45:36 | approved |
| S3-203022 | 25/11/2020 16:43:22 | available |
| S3-203023 | 25/11/2020 16:43:44 | agreed |
| S3-203024 | 25/11/2020 16:43:45 | agreed |
| S3-203025 | 25/11/2020 16:39:58 | available |
| S3-203028 | 26/11/2020 12:25:23 | approved |
| S3-203029 | 25/11/2020 16:37:47 | available |
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| S3-203031 | 26/11/2020 14:01:38 | approved |
| S3-203032 | 26/11/2020 12:24:45 | noted |
| S3-203033 | 26/11/2020 12:24:48 | noted |
| S3-203034 | 26/11/2020 12:24:55 | noted |
| S3-203035 | 26/11/2020 14:02:47 | noted |
| S3-203036 | 26/11/2020 14:02:54 | noted |
| S3-203038 | 25/11/2020 16:43:54 | noted |
| S3-203041 | 26/11/2020 14:48:46 | available |
| S3-203043 | 26/11/2020 13:47:44 | noted |
| S3-203044 | 26/11/2020 13:48:09 | noted |
| S3-203046 | 26/11/2020 14:02:59 | noted |
| S3-203047 | 25/11/2020 17:01:48 | noted |
| S3-203048 | 25/11/2020 17:01:35 | noted |
| S3-203050 | 25/11/2020 15:11:35 | agreed |
| S3-203052 | 24/11/2020 16:37:31 | noted |
| S3-203053 | 24/11/2020 16:38:09 | available |
| S3-203054 | 24/11/2020 16:38:16 | available |
| S3-203056 | 24/11/2020 16:38:52 | available |
| S3-203057 | 24/11/2020 16:43:13 | agreed |
| S3-203058 | 25/11/2020 17:01:58 | available |
| S3-203061 | 26/11/2020 13:42:49 | noted |
| S3-203062 | 26/11/2020 13:45:53 | noted |
| S3-203064 | 26/11/2020 12:25:30 | approved |
| S3-203066 | 26/11/2020 12:25:49 | approved |
| S3-203068 | 25/11/2020 17:02:14 | available |
| S3-203071 | 25/11/2020 15:06:52 | noted |
| S3-203078 | 25/11/2020 16:55:57 | noted |
| S3-203080 | 26/11/2020 10:13:31 | approved |
| S3-203082 | 26/11/2020 10:13:54 | approved |
| S3-203083 | 26/11/2020 10:13:58 | noted |
| S3-203084 | 26/11/2020 10:15:54 | noted |
| S3-203086 | 25/11/2020 15:07:37 | agreed |
| S3-203088 | 26/11/2020 12:21:09 | available |
| S3-203089 | 26/11/2020 12:22:37 | noted |
| S3-203090 | 26/11/2020 12:22:40 | noted |
| S3-203091 | 26/11/2020 12:22:42 | noted |
| S3-203092 | 26/11/2020 12:22:49 | noted |
| S3-203094 | 26/11/2020 12:23:00 | noted |
| S3-203095 | 26/11/2020 12:23:03 | noted |
| S3-203096 | 26/11/2020 14:57:33 | noted |
| S3-203097 | 26/11/2020 14:57:37 | noted |
| S3-203098 | 25/11/2020 16:43:59 | noted |
| S3-203099 | 25/11/2020 16:44:04 | available |
| S3-203100 | 25/11/2020 16:44:11 | noted |
| S3-203101 | 25/11/2020 16:44:27 | available |
| S3-203102 | 25/11/2020 16:44:32 | available |
| S3-203103 | 25/11/2020 15:07:40 | agreed |
| S3-203104 | 25/11/2020 15:07:43 | agreed |
| S3-203105 | 25/11/2020 15:07:46 | agreed |
| S3-203106 | 25/11/2020 16:44:38 | available |
| S3-203107 | 25/11/2020 15:07:54 | agreed |
| S3-203108 | 25/11/2020 15:07:55 | agreed |
| S3-203109 | 25/11/2020 17:02:49 | available |
| S3-203110 | 25/11/2020 17:02:55 | available |
| S3-203116 | 26/11/2020 14:18:02 | noted |
| S3-203118 | 25/11/2020 16:57:35 | approved |
| S3-203119 | 25/11/2020 16:57:38 | approved |
| S3-203120 | 26/11/2020 10:14:19 | noted |
| S3-203121 | 26/11/2020 10:14:27 | noted |
| S3-203122 | 26/11/2020 12:13:39 | noted |
| S3-203123 | 26/11/2020 12:13:54 | noted |
| S3-203124 | 26/11/2020 14:45:13 | available |
| S3-203126 | 25/11/2020 16:58:08 | approved |
| S3-203127 | 25/11/2020 16:58:10 | approved |
| S3-203131 | 26/11/2020 10:06:39 | noted |
| S3-203133 | 26/11/2020 10:07:00 | noted |
| S3-203134 | 26/11/2020 10:07:03 | noted |
| S3-203136 | 26/11/2020 10:07:22 | approved |
| S3-203137 | 26/11/2020 10:07:29 | noted |
| S3-203138 | 26/11/2020 10:07:35 | noted |
| S3-203139 | 26/11/2020 14:26:06 | approved |
| S3-203140 | 25/11/2020 16:57:41 | approved |
| S3-203141 | 24/11/2020 16:37:19 | noted |
| S3-203144 | 24/11/2020 16:38:32 | available |
| S3-203145 | 24/11/2020 16:38:47 | available |
| S3-203147 | 25/11/2020 15:09:48 | available |
| S3-203148 | 25/11/2020 15:09:07 | available |
| S3-203149 | 25/11/2020 15:13:00 | available |
| S3-203150 | 25/11/2020 15:13:36 | available |
| S3-203151 | 25/11/2020 15:13:41 | available |
| S3-203152 | 25/11/2020 15:13:47 | available |
| S3-203153 | 25/11/2020 15:11:12 | agreed |
| S3-203155 | 26/11/2020 14:05:38 | noted |
| S3-203156 | 26/11/2020 14:05:41 | noted |
| S3-203157 | 25/11/2020 16:57:43 | approved |
| S3-203158 | 26/11/2020 10:02:25 | approved |
| S3-203159 | 26/11/2020 14:57:18 | withdrawn |
| S3-203160 | 26/11/2020 10:02:28 | approved |
| S3-203165 | 17/11/2020 16:43:18 | withdrawn |
| S3-203166 | 26/11/2020 10:08:09 | noted |
| S3-203168 | 26/11/2020 14:09:14 | noted |
| S3-203169 | 25/11/2020 16:41:57 | noted |
| S3-203170 | 25/11/2020 16:42:34 | available |
| S3-203171 | 25/11/2020 16:42:03 | available |
| S3-203172 | 26/11/2020 14:05:27 | noted |
| S3-203174 | 26/11/2020 10:09:05 | noted |
| S3-203179 | 26/11/2020 12:13:10 | noted |
| S3-203181 | 25/11/2020 17:00:29 | noted |
| S3-203185 | 26/11/2020 14:20:22 | noted |
| S3-203189 | 26/11/2020 14:55:43 | noted |
| S3-203190 | 26/11/2020 14:58:02 | noted |
| S3-203191 | 25/11/2020 16:39:32 | available |
| S3-203192 | 25/11/2020 16:39:53 | available |
| S3-203193 | 26/11/2020 14:09:51 | noted |
| S3-203194 | 24/11/2020 16:49:15 | agreed |
| S3-203195 | 24/11/2020 16:49:18 | agreed |
| S3-203196 | 24/11/2020 16:49:35 | available |
| S3-203197 | 24/11/2020 16:50:44 | available |
| S3-203198 | 24/11/2020 16:51:36 | agreed |
| S3-203199 | 24/11/2020 16:51:38 | agreed |
| S3-203202 | 25/11/2020 15:14:02 | agreed |
| S3-203204 | 25/11/2020 15:11:01 | available |
| S3-203205 | 25/11/2020 15:11:18 | available |
| S3-203207 | 26/11/2020 14:20:28 | noted |
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| S3-203209 | 26/11/2020 13:48:32 | approved |
| S3-203212 | 25/11/2020 16:35:12 | noted |
| S3-203213 | 25/11/2020 16:35:43 | available |
| S3-203217 | 26/11/2020 14:50:29 | noted |
| S3-203218 | 26/11/2020 12:14:17 | approved |
| S3-203222 | 25/11/2020 16:51:01 | noted |
| S3-203223 | 25/11/2020 16:51:05 | noted |
| S3-203224 | 25/11/2020 16:51:09 | noted |
| S3-203227 | 25/11/2020 17:05:12 | available |
| S3-203228 | 25/11/2020 17:05:21 | noted |
| S3-203231 | 26/11/2020 12:23:18 | noted |
| S3-203232 | 26/11/2020 13:48:39 | noted |
| S3-203233 | 26/11/2020 13:48:49 | noted |
| S3-203234 | 26/11/2020 13:48:54 | noted |
| S3-203235 | 26/11/2020 13:48:57 | noted |
| S3-203236 | 26/11/2020 13:49:07 | noted |
| S3-203237 | 26/11/2020 13:49:10 | noted |
| S3-203238 | 26/11/2020 13:49:13 | noted |
| S3-203241 | 26/11/2020 15:10:31 | approved |
| S3-203242 | 26/11/2020 14:43:08 | approved |
| S3-203242 | 26/11/2020 14:43:23 | noted |
| S3-203244 | 26/11/2020 14:25:04 | noted |
| S3-203245 | 26/11/2020 14:24:08 | noted |
| S3-203246 | 26/11/2020 14:25:09 | noted |
| S3-203247 | 26/11/2020 14:25:58 | noted |
| S3-203248 | 26/11/2020 12:28:48 | approved |
| S3-203249 | 25/11/2020 15:06:02 | agreed |
| S3-203250 | 25/11/2020 15:06:05 | agreed |
| S3-203251 | 25/11/2020 17:04:13 | available |
| S3-203252 | 25/11/2020 17:04:57 | noted |
| S3-203254 | 26/11/2020 14:51:10 | approved |
| S3-203255 | 26/11/2020 14:51:14 | approved |
| S3-203256 | 26/11/2020 12:14:45 | noted |
| S3-203257 | 25/11/2020 16:44:47 | noted |
| S3-203258 | 25/11/2020 16:45:00 | noted |
| S3-203259 | 25/11/2020 16:45:03 | noted |
| S3-203260 | 26/11/2020 14:46:42 | noted |
| S3-203261 | 26/11/2020 14:45:34 | noted |
| S3-203262 | 26/11/2020 14:42:36 | noted |
| S3-203263 | 26/11/2020 14:08:44 | noted |
| S3-203265 | 26/11/2020 14:09:38 | approved |
| S3-203270 | 26/11/2020 14:27:18 | available |
| S3-203272 | 26/11/2020 14:43:48 | noted |
| S3-203275 | 26/11/2020 14:45:58 | noted |
| S3-203277 | 26/11/2020 14:46:23 | approved |
| S3-203279 | 26/11/2020 14:44:07 | noted |
| S3-203281 | 26/11/2020 10:09:34 | noted |
| S3-203281 | 26/11/2020 10:09:36 | agreed |
| S3-203281 | 26/11/2020 10:09:37 | approved |
| S3-203288 | 26/11/2020 10:10:31 | noted |
| S3-203290 | 25/11/2020 15:12:54 | available |
| S3-203291 | 24/11/2020 16:32:10 | noted |
| S3-203292 | 26/11/2020 12:16:34 | approved |
| S3-203293 | 26/11/2020 14:49:36 | available |
| S3-203296 | 26/11/2020 12:22:08 | available |
| S3-203297 | 26/11/2020 14:25:49 | noted |
| S3-203298 | 26/11/2020 12:16:40 | approved |
| S3-203299 | 26/11/2020 14:08:54 | noted |
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| S3-203301 | 26/11/2020 15:06:26 | noted |
| S3-203302 | 26/11/2020 14:20:38 | noted |
| S3-203303 | 26/11/2020 12:16:59 | noted |
| S3-203304 | 26/11/2020 14:20:45 | noted |
| S3-203305 | 26/11/2020 13:43:19 | available |
| S3-203307 | 26/11/2020 13:43:32 | approved |
| S3-203309 | 25/11/2020 16:42:47 | available |
| S3-203311 | 25/11/2020 16:42:14 | available |
| S3-203314 | 25/11/2020 17:03:43 | agreed |
| S3-203316 | 26/11/2020 14:44:14 | noted |
| S3-203317 | 26/11/2020 14:46:33 | noted |
| S3-203321 | 26/11/2020 12:29:06 | approved |
| S3-203322 | 25/11/2020 15:06:33 | noted |
| S3-203324 | 25/11/2020 15:05:06 | noted |
| S3-203325 | 25/11/2020 15:05:10 | noted |
| S3-203326 | 24/11/2020 16:32:26 | noted |
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| S3-203328 | 26/11/2020 12:13:24 | approved |
| S3-203329 | 26/11/2020 12:13:27 | approved |
| S3-203330 | 26/11/2020 12:13:30 | noted |
| S3-203331 | 26/11/2020 10:14:57 | noted |
| S3-203334 | 26/11/2020 13:47:10 | approved |
| S3-203335 | 09/11/2020 13:25:33 | approved |
| S3-203336 | 26/11/2020 15:06:44 | approved |
| S3-203337 | 26/11/2020 14:58:50 | noted |
| S3-203338 | 24/11/2020 16:31:13 | postponed |
| S3-203339 | 26/11/2020 12:29:09 | approved |
| S3-203340 | 26/11/2020 13:44:31 | approved |
| S3-203341 | 26/11/2020 13:46:57 | approved |
| S3-203342 | 26/11/2020 12:14:58 | approved |
| S3-203343 | 26/11/2020 12:15:05 | approved |
| S3-203344 | 26/11/2020 10:04:03 | approved |
| S3-203345 | 26/11/2020 12:15:10 | approved |
| S3-203346 | 26/11/2020 10:04:16 | approved |
| S3-203347 | 26/11/2020 10:04:21 | approved |
| S3-203348 | 26/11/2020 10:06:50 | approved |
| S3-203349 | 26/11/2020 10:07:13 | approved |
| S3-203350 | 26/11/2020 15:05:30 | approved |
| S3-203351 | 26/11/2020 13:44:20 | approved |
| S3-203352 | 26/11/2020 12:15:36 | approved |
| S3-203353 | 26/11/2020 12:15:40 | approved |
| S3-203354 | 26/11/2020 12:15:48 | approved |
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| S3-203357 | 26/11/2020 14:40:59 | approved |
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| S3-203372 | 26/11/2020 12:14:05 | approved |
| S3-203373 | 26/11/2020 13:46:47 | approved |
| S3-203374 | 26/11/2020 10:09:28 | approved |
| S3-203375 | 26/11/2020 10:09:46 | approved |
| S3-203376 | 26/11/2020 12:14:32 | approved |
| S3-203377 | 26/11/2020 10:08:51 | approved |
| S3-203378 | 26/11/2020 10:09:56 | approved |
| S3-203379 | 26/11/2020 10:10:05 | approved |
| S3-203380 | 26/11/2020 15:07:38 | approved |
| S3-203381 | 26/11/2020 10:10:06 | approved |
| S3-203382 | 26/11/2020 10:10:07 | approved |
| S3-203383 | 26/11/2020 15:05:41 | approved |
| S3-203384 | 26/11/2020 10:10:24 | approved |
| S3-203385 | 26/11/2020 10:09:14 | approved |
| S3-203386 | 26/11/2020 12:16:02 | approved |
| S3-203387 | 26/11/2020 12:22:26 | approved |
| S3-203388 | 26/11/2020 15:05:53 | approved |
| S3-203389 | 26/11/2020 15:08:48 | approved |
| S3-203390 | 26/11/2020 12:21:51 | approved |
| S3-203391 | 26/11/2020 13:44:07 | approved |
| S3-203392 | 26/11/2020 15:11:02 | approved |
| S3-203393 | 26/11/2020 10:13:38 | approved |
| S3-203394 | 26/11/2020 10:14:36 | approved |
| S3-203395 | 26/11/2020 14:50:05 | approved |
| S3-203396 | 26/11/2020 13:43:44 | approved |
| S3-203397 | 26/11/2020 14:08:24 | approved |
| S3-203398 | 26/11/2020 14:09:28 | approved |
| S3-203399 | 26/11/2020 14:10:31 | approved |
| S3-203400 | 26/11/2020 15:09:23 | approved |
| S3-203401 | 26/11/2020 14:05:55 | approved |
| S3-203402 | 26/11/2020 14:12:21 | approved |
| S3-203403 | 26/11/2020 10:07:43 | approved |
| S3-203404 | 26/11/2020 10:07:49 | approved |
| S3-203405 | 26/11/2020 10:07:58 | approved |
| S3-203406 | 26/11/2020 10:08:02 | approved |
| S3-203407 | 26/11/2020 10:08:14 | approved |
| S3-203408 | 26/11/2020 14:53:55 | approved |
| S3-203409 | 26/11/2020 14:54:34 | approved |
| S3-203410 | 26/11/2020 14:53:34 | approved |
| S3-203411 | 26/11/2020 15:11:24 | approved |
| S3-203412 | 26/11/2020 12:25:06 | approved |
| S3-203413 | 26/11/2020 12:27:54 | approved |
| S3-203414 | 26/11/2020 12:28:01 | approved |
| S3-203415 | 26/11/2020 15:09:40 | approved |
| S3-203416 | 26/11/2020 13:46:22 | approved |
| S3-203417 | 26/11/2020 13:46:31 | approved |
| S3-203418 | 26/11/2020 13:46:39 | approved |
| S3-203419 | 26/11/2020 14:48:10 | approved |
| S3-203420 | 26/11/2020 14:48:32 | approved |
| S3-203421 | 26/11/2020 14:50:21 | approved |
| S3-203422 | 26/11/2020 13:49:28 | approved |
| S3-203423 | 26/11/2020 13:49:32 | approved |
| S3-203424 | 26/11/2020 13:49:35 | approved |
| S3-203425 | 26/11/2020 13:45:00 | approved |
| S3-203426 | 26/11/2020 13:42:07 | approved |
| S3-203427 | 26/11/2020 13:49:50 | approved |
| S3-203428 | 26/11/2020 13:49:57 | approved |
| S3-203429 | 26/11/2020 13:50:01 | approved |
| S3-203430 | 26/11/2020 13:45:05 | approved |
| S3-203431 | 26/11/2020 13:45:12 | approved |
| S3-203432 | 26/11/2020 13:45:42 | approved |
| S3-203433 | 26/11/2020 12:27:09 | approved |
| S3-203434 | 26/11/2020 12:27:15 | approved |
| S3-203435 | 26/11/2020 12:27:19 | approved |
| S3-203436 | 26/11/2020 15:08:10 | approved |
| S3-203437 | 26/11/2020 12:27:37 | approved |
| S3-203438 | 26/11/2020 14:08:05 | approved |
| S3-203439 | 26/11/2020 14:08:09 | approved |
| S3-203440 | 26/11/2020 13:45:23 | approved |
| S3-203441 | 26/11/2020 12:26:25 | approved |
| S3-203442 | 26/11/2020 13:46:02 | approved |
| S3-203443 | 26/11/2020 12:25:40 | approved |
| S3-203444 | 26/11/2020 12:25:53 | approved |
| S3-203445 | 26/11/2020 14:47:56 | approved |
| S3-203446 | 26/11/2020 14:49:54 | approved |
| S3-203447 | 26/11/2020 15:05:10 | approved |
| S3-203448 | 26/11/2020 13:42:33 | approved |
| S3-203449 | 26/11/2020 14:44:32 | approved |
| S3-203450 | 26/11/2020 14:26:45 | approved |
| S3-203451 | 26/11/2020 14:24:20 | approved |
| S3-203452 | 26/11/2020 10:03:27 | approved |
| S3-203453 | 26/11/2020 10:08:41 | approved |
| S3-203454 | 26/11/2020 10:08:24 | approved |
| S3-203455 | 26/11/2020 15:09:08 | approved |
| S3-203456 | 26/11/2020 15:11:12 | approved |
| S3-203457 | 26/11/2020 12:28:35 | approved |
| S3-203458 | 26/11/2020 15:09:59 | approved |
| S3-203459 | 26/11/2020 15:08:32 | approved |
| S3-203460 | 26/11/2020 12:28:53 | approved |
| S3-203461 | 26/11/2020 12:28:57 | approved |
| S3-203462 | 26/11/2020 13:46:10 | approved |
| S3-203463 | 26/11/2020 15:10:53 | approved |
| S3-203464 | 26/11/2020 15:10:42 | approved |
| S3-203465 | 26/11/2020 14:50:37 | approved |
| S3-203466 | 26/11/2020 14:18:18 | approved |
| S3-203467 | 26/11/2020 15:07:54 | approved |
| S3-203468 | 26/11/2020 14:02:13 | approved |
| S3-203469 | 26/11/2020 14:02:24 | approved |
| S3-203470 | 26/11/2020 10:01:37 | approved |
| S3-203471 | 26/11/2020 10:01:56 | approved |
| S3-203472 | 26/11/2020 14:58:41 | noted |
| S3-203473 | 26/11/2020 14:46:06 | approved |
| S3-203475 | 25/11/2020 17:06:22 | available |
| S3-203476 | 24/11/2020 16:52:19 | agreed |
| S3-203477 | 26/11/2020 15:11:35 | noted |
| S3-203478 | 26/11/2020 15:11:43 | noted |
| S3-203479 | 24/11/2020 16:23:43 | noted |
| S3-203480 | 25/11/2020 16:48:11 | agreed |
| S3-203481 | 25/11/2020 16:48:37 | agreed |
| S3-203482 | 25/11/2020 16:37:26 | agreed |
| S3-203483 | 25/11/2020 16:46:21 | approved |
| S3-203484 | 25/11/2020 17:01:19 | agreed |
| S3-203485 | 25/11/2020 15:18:00 | agreed |
| S3-203486 | 25/11/2020 15:18:15 | agreed |
| S3-203487 | 25/11/2020 15:18:27 | agreed |
| S3-203488 | 25/11/2020 15:17:45 | agreed |
| S3-203489 | 25/11/2020 16:58:02 | approved |
| S3-203490 | 27/11/2020 08:59:41 | approved |
| S3-203491 | 25/11/2020 17:02:32 | agreed |
| S3-203492 | 24/11/2020 16:25:24 | approved |
| S3-203493 | 25/11/2020 16:30:11 | agreed |
| S3-203494 | 26/11/2020 15:01:07 | approved |
| S3-203495 | 24/11/2020 16:34:24 | approved |
| S3-203496 | 24/11/2020 16:35:54 | agreed |
| S3-203497 | 24/11/2020 16:35:46 | agreed |
| S3-203498 | 24/11/2020 16:26:49 | approved |
| S3-203499 | 25/11/2020 15:08:28 | agreed |
| S3-203500 | 24/11/2020 16:30:28 | approved |
| S3-203501 | 25/11/2020 15:09:38 | agreed |
| S3-203502 | 24/11/2020 16:52:03 | agreed |
| S3-203503 | 24/11/2020 16:52:11 | agreed |
| S3-203504 | 26/11/2020 14:58:17 | agreed |
| S3-203505 | 25/11/2020 17:03:33 | agreed |
| S3-203506 | 25/11/2020 17:03:49 | agreed |
| S3-203507 | 25/11/2020 16:42:25 | available |
| S3-203508 | 25/11/2020 16:50:43 | approved |
| S3-203509 | 25/11/2020 16:51:22 | approved |
| S3-203510 | 25/11/2020 16:52:48 | approved |
| S3-203511 | 25/11/2020 17:00:13 | approved |
| S3-203512 | 27/11/2020 08:59:28 | approved |
| S3-203513 | 27/11/2020 08:59:30 | approved |
| S3-203514 | 25/11/2020 16:58:55 | approved |
| S3-203515 | 25/11/2020 15:05:26 | agreed |
| S3-203516 | 25/11/2020 15:05:49 | agreed |
| S3-203517 | 26/11/2020 15:04:50 | approved |
| S3-203519 | 25/11/2020 17:03:04 | agreed |
| S3-203520 | 25/11/2020 15:11:48 | agreed |
| S3-203521 | 25/11/2020 16:49:59 | agreed |
| S3-203522 | 24/11/2020 16:36:35 | approved |
| S3-203524 | 25/11/2020 16:56:56 | approved |
| S3-203525 | 25/11/2020 16:57:01 | approved |
| S3-203526 | 25/11/2020 16:57:05 | approved |
| S3-203527 | 25/11/2020 16:57:10 | approved |
| S3-203528 | 26/11/2020 15:05:02 | approved |
| S3-203529 | 25/11/2020 16:53:21 | approved |
| S3-203530 | 25/11/2020 16:53:27 | approved |
| S3-203531 | 25/11/2020 16:55:37 | approved |
| S3-203532 | 25/11/2020 16:55:41 | approved |
| S3-203533 | 25/11/2020 16:55:46 | approved |
| S3-203534 | 24/11/2020 16:52:57 | approved |
| S3-203535 | 25/11/2020 16:36:21 | agreed |
| S3-203536 | 25/11/2020 15:09:18 | agreed |
| S3-203537 | 24/11/2020 16:48:43 | agreed |
| S3-203538 | 24/11/2020 16:48:52 | agreed |
| S3-203539 | 25/11/2020 15:07:25 | agreed |
| S3-203540 | 25/11/2020 16:56:22 | approved |
| S3-203541 | 25/11/2020 16:56:26 | approved |
| S3-203542 | 25/11/2020 16:56:31 | approved |
| S3-203543 | 25/11/2020 16:57:19 | approved |
| S3-203544 | 25/11/2020 16:57:23 | approved |
| S3-203545 | 26/11/2020 15:04:32 | approved |
| S3-203546 | 26/11/2020 15:04:33 | approved |
| S3-203547 | 27/11/2020 08:59:15 | approved |
| S3-203548 | 27/11/2020 08:59:20 | approved |
| S3-203549 | 27/11/2020 08:59:07 | approved |
| S3-203550 | 24/11/2020 16:29:21 | approved |
| S3-203551 | 27/11/2020 13:48:09 | agreed |
| S3-203552 | 27/11/2020 13:48:36 | agreed |

## Annex B: List of change requests

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S3-203085 | Correction of test case for access token verification failure handling in different PLMN | Nokia, Nokia Shanghai Bell | 33.117 | 0066 | - | Rel-16 | F | SCAS\_5G | revised |
| S3-203539 | Correction of test case for access token verification failure handling in different PLMN | Nokia, Nokia Shanghai Bell | 33.117 | 0066 | 1 | Rel-16 | F | SCAS\_5G | agreed |
| S3-203109 | Enforcement of password change after initial login R15 | Nokia, Nokia Shanghai Bell | 33.117 | 0067 | - | Rel-15 | F | SCAS\_eNB | not pursued |
| S3-203110 | Enforcement of password change after initial login R16 | Nokia, Nokia Shanghai Bell | 33.117 | 0068 | - | Rel-16 | A | SCAS\_eNB | not pursued |
| S3-202880 | [33.180] R16 Fix terminology | Airbus | 33.180 | 0151 | - | Rel-16 | F | MCXSec | revised |
| S3-203551 | [33.180] R16 Fix terminology | Airbus | 33.180 | 0151 | 1 | Rel-16 | F | MCXSec | agreed |
| S3-202881 | [33.180] R17 Fix terminology | Airbus | 33.180 | 0152 | - | Rel-17 | A | MCXSec | revised |
| S3-203552 | [33.180] R17 Fix terminology | Airbus | 33.180 | 0152 | 1 | Rel-17 | A | MCXSec | agreed |
| S3-202870 | CR Removal of AKMA changes to TS 33.220 in Rel-16 | China Mobile | 33.220 | 0205 | - | Rel-16 | F | DUMMY | revised |
| S3-203488 | CR Removal of AKMA changes to TS 33.220 in Rel-16 | China Mobile | 33.220 | 0205 | 1 | Rel-16 | F | DUMMY | agreed |
| S3-202873 | CR for AKMA changes to TS 33.220 in Rel-17 | China Mobile | 33.220 | 0206 | - | Rel-17 | B | AKMA | revised |
| S3-203487 | CR for AKMA changes to TS 33.220 in Rel-17 | China Mobile | 33.220 | 0206 | 1 | Rel-17 | B | AKMA | agreed |
| S3-203039 | SHA-1 deprecation in GBA | Huawei, Hisilicon | 33.220 | 0207 | - | Rel-17 | F | TEI17 | revised |
| S3-203519 | SHA-1 deprecation in GBA | Huawei, Hisilicon | 33.220 | 0207 | 1 | Rel-17 | F | GBA-ext | agreed |
| S3-203313 | Aligning TLS in 33.222 with the current 3GPP TLS profile | Ericsson | 33.222 | 0052 | - | Rel-16 | F | CryptPr | revised |
| S3-203505 | Aligning TLS in 33.222 with the current 3GPP TLS profile | Ericsson | 33.222 | 0052 | 1 | Rel-16 | F | CryptPr | agreed |
| S3-202810 | Editorial corrections to NDS/AF | Juniper Networks | 33.310 | 0113 | - | Rel-16 | D | TEI16 | revised |
| S3-202819 | Editorial corrections to NDS/AF | Juniper Networks | 33.310 | 0113 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-203050 | NF information addition in SBA certificate profile | Huawei, Hisilicon | 33.310 | 0114 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-203153 | Clarification on format for subjectAltName | Ericsson | 33.310 | 0115 | - | Rel-16 | F | 5G\_eSBA | agreed |
| S3-203314 | Aligning TLS in 33.310 with the current 3GPP TLS profile | Ericsson | 33.310 | 0116 | - | Rel-16 | F | CryptPr | agreed |
| S3-202813 | Clarification to SEAF | Nokia, Nokia Shanghai Bell | 33.501 | 0835 | 3 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-202883 | Re-using of access token in indirect communication with delegated discovery | Nokia, Nokia Shanghai Bell | 33.501 | 0907 | 1 | Rel-16 | F | 5G\_eSBA | revised |
| S3-203499 | Re-using of access token in indirect communication with delegated discovery | Nokia, Nokia Shanghai Bell, Ericsson, Mavenir, Huawei, HiSilicon, CableLabs | 33.501 | 0907 | 2 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-202808 | NRF authorization during NF service consumer Access Token Get Request | Mavenir | 33.501 | 0955 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-203497 | NRF authorization during NF service consumer Access Token Get Request | Mavenir, Nokia, Nokia Shanghai Bell | 33.501 | 0955 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-202809 | NRF authorization during NF service consumer Access Token Get Request | Mavenir | 33.501 | 0956 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-203496 | NRF authorization during NF service consumer Access Token Get Request | Mavenir, Nokia, Nokia Shanghai Bell | 33.501 | 0956 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-202814 | Clarification to SEAF | Nokia, Nokia Shanghai Bell | 33.501 | 0957 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-202869 | CR Removal of AKMA changes to TS 33.501 in Rel-16 | China Mobile | 33.501 | 0958 | - | Rel-16 | F | DUMMY | agreed |
| S3-202872 | CR for AKMA changes to TS 33.501 in Rel-17 | China Mobile International Ltd | 33.501 | 0959 | - | Rel-17 | B | AKMA | revised |
| S3-203486 | CR for AKMA changes to TS 33.501 in Rel-17 | China Mobile International Ltd | 33.501 | 0959 | 1 | Rel-17 | B | AKMA | agreed |
| S3-202887 | Error correction and clarification of Annex O | CableLabs | 33.501 | 0960 | - | Rel-16 | F | 5WWC | revised |
| S3-203507 | Error correction and clarification of Annex O | CableLabs | 33.501 | 0960 | 1 | Rel-16 | F | 5WWC | not pursued |
| S3-202889 | NAS COUNT storage for multiple PLMN | Nokia, Nokia Shanghai Bell | 33.501 | 0961 | - | Rel-16 | F | 5GS\_Ph1-SEC, TEI16 | revised |
| S3-203476 | NAS COUNT storage for multiple PLMN | Nokia, Nokia Shanghai Bell | 33.501 | 0961 | 1 | Rel-16 | F | 5GS\_Ph1-SEC, TEI16 | agreed |
| S3-202947 | Correct NAS uplink COUNT for KgNB/KeNB derivation | MediaTek Inc. | 33.501 | 0962 | - | Rel-16 | F | TEI16 | not pursued |
| S3-202948 | Correction to inter-AMF mobility key derivation function | MediaTek Inc. | 33.501 | 0963 | - | Rel-16 | F | TEI16 | not pursued |
| S3-202951 | Handling of new Kausf during authentication procedure | NEC | 33.501 | 0964 | - | Rel-16 | F | TEI16 | not pursued |
| S3-202986 | Handling of security parameters during authentication procedure | NEC | 33.501 | 0965 | - | Rel-16 | F | TEI16 | not pursued |
| S3-203004 | Authentication procedure during Xn handover procedure | NEC | 33.501 | 0966 | - | Rel-16 | F | TEI16 | revised |
| S3-203474 | Authentication procedure during Xn handover procedure | NEC | 33.501 | 0966 | 1 | Rel-16 | F | TEI16 | revised |
| S3-203475 | Authentication procedure during Xn handover procedure | NEC | 33.501 | 0966 | 2 | Rel-16 | F | TEI16 | not pursued |
| S3-203020 | Secondary authentication revocation rel15 | Huawei, HiSilicon | 33.501 | 0967 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-203515 | Secondary authentication revocation rel15 | Huawei, HiSilicon | 33.501 | 0967 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-203021 | Secondary authentication revocation rel16 | Huawei, HiSilicon | 33.501 | 0968 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-203516 | Secondary authentication revocation rel16 | Huawei, HiSilicon | 33.501 | 0968 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-203022 | Slice privacy protection in NSSAA related procedure | Huawei, HiSilicon | 33.501 | 0969 | - | Rel-16 | F | eNS | not pursued |
| S3-203023 | Correction to the Nnssaaf\_NSSAA\_RevocationNotification services | Huawei, HiSilicon | 33.501 | 0970 | - | Rel-16 | F | eNS | agreed |
| S3-203024 | clean up to the Nnssaaf\_NSSAA services | Huawei, HiSilicon | 33.501 | 0971 | - | Rel-16 | F | eNS | agreed |
| S3-203049 | Input parameters of access token request addition and verification | Huawei, Hisilicon | 33.501 | 0972 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-203520 | Input parameters of access token request addition and verification | Huawei, Hisilicon | 33.501 | 0972 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-203053 | Clarification on PLMN ID verification in Rel15 | Huawei, Hisilicon | 33.501 | 0973 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-203054 | Clarification on PLMN ID verification in Rel16 | Huawei, Hisilicon | 33.501 | 0974 | - | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-203056 | Modification policy clarification in Rel15 | Huawei, Hisilicon | 33.501 | 0975 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-203057 | Modification policy clarification in Rel16 | Huawei, Hisilicon | 33.501 | 0976 | - | Rel-16 | F | TEI16,5GS\_Ph1-SEC | agreed |
| S3-203523 | Modification policy clarification in Rel16 | Huawei, Hisilicon | 33.501 | 0976 | 1 | Rel-16 | F | TEI16,5GS\_Ph1-SEC | withdrawn |
| S3-203058 | Clarification on security policy configuration for TSC services | Huawei, Hisilicon | 33.501 | 0977 | - | Rel-16 | F | TEI16 | not pursued |
| S3-203068 | Clarification on security policy configuration for 5G LAN services | Huawei, Hisilicon | 33.501 | 0978 | - | Rel-16 | F | TEI16 | not pursued |
| S3-203099 | Serving network ID in NSSAA | Huawei, HiSilicon | 33.501 | 0979 | - | Rel-16 | F | eNS | not pursued |
| S3-203101 | validity peirod of NSSAA result | Huawei, HiSilicon | 33.501 | 0980 | - | Rel-16 | F | eNS | not pursued |
| S3-203102 | Clarification on binding of NSSAI and UE ID at AAA-S | Huawei, HiSilicon | 33.501 | 0981 | - | Rel-16 | F | eNS | not pursued |
| S3-203106 | Addessing EN on transmitting NSSAI to AAA | China Mobile | 33.501 | 0982 | - | Rel-16 | F | eNS | not pursued |
| S3-203142 | Corrections for the NRF token request service | Ericsson | 33.501 | 0983 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-203537 | Corrections for the NRF token request service | Ericsson | 33.501 | 0983 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-203143 | Corrections for the NRF token request service | Ericsson | 33.501 | 0984 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-203538 | Corrections for the NRF token request service | Ericsson | 33.501 | 0984 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-203144 | Verification of Serving Network Name in AUSF | Ericsson | 33.501 | 0985 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-203145 | SEPP including PLMN-ID and verification of Serving Network Name in AUSF | Ericsson | 33.501 | 0986 | - | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-203146 | Resolving Editor's Note on SCP performing token-based authorization on behalf of Network Functions | Ericsson | 33.501 | 0987 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-203536 | Resolving Editor's Note on SCP performing token-based authorization on behalf of Network Functions | Ericsson | 33.501 | 0987 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-203147 | Resolving Editor's Notes on SCP authorization | Ericsson | 33.501 | 0988 | - | Rel-16 | F | 5G\_eSBA | merged |
| S3-203148 | Token-based authorization for subsequent service requests in model D | Ericsson | 33.501 | 0989 | - | Rel-16 | F | 5G\_eSBA | merged |
| S3-203149 | Assertions: partial protection of the message | Ericsson | 33.501 | 0990 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-203150 | Assertions: protection of service response | Ericsson | 33.501 | 0991 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-203151 | Assertion requirement by the producer | Ericsson | 33.501 | 0992 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-203152 | Access token requirement by the producer | Ericsson | 33.501 | 0993 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-203170 | Authentication method selection and SUPI retrieval for N5GC | Ericsson | 33.501 | 0994 | - | Rel-16 | F | 5WWC | not pursued |
| S3-203171 | Authentication method selection for N5CW | Ericsson | 33.501 | 0995 | - | Rel-16 | F | 5WWC | not pursued |
| S3-203192 | Addition of UDM sending GPSI of the UE for AKMA | Qualcomm Incorporated | 33.501 | 0996 | - | Rel-16 | F | AKMA | not pursued |
| S3-203194 | R15 NFc and NFp alignment in static authorization | Nokia, Nokia Shanghai Bell | 33.501 | 0997 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-203195 | R16 NFc and NFp alignment in static authorization | Nokia, Nokia Shanghai Bell | 33.501 | 0998 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-203196 | R15 Access Token Get Service - removal of ambigiouty | Nokia, Nokia Shanghai Bell | 33.501 | 0999 | - | Rel-15 | F | 5GS\_Ph1-SEC | merged |
| S3-203197 | R16 Access Token Get Service - removal of ambigiouty | Nokia, Nokia Shanghai Bell | 33.501 | 1000 | - | Rel-16 | A | 5GS\_Ph1-SEC | merged |
| S3-203198 | R15 Authorization of NF service access - removal of ambigious terminology | Nokia, Nokia Shanghai Bell | 33.501 | 1001 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-203199 | R16 Authorization of NF service access - removal of ambigious terminology | Nokia, Nokia Shanghai Bell | 33.501 | 1002 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-203200 | R15 Authorization of NF service access - service requst process steps | Nokia, Nokia Shanghai Bell | 33.501 | 1003 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-203502 | R15 Authorization of NF service access - service requst process steps | Nokia, Nokia Shanghai Bell | 33.501 | 1003 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-203201 | R16 Authorization of NF service access - service requst process steps | Nokia, Nokia Shanghai Bell | 33.501 | 1004 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-203503 | R16 Authorization of NF service access - service requst process steps | Nokia, Nokia Shanghai Bell | 33.501 | 1004 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-203202 | R16 NF Service Consumer authentication | Nokia, Nokia Shanghai Bell | 33.501 | 1005 | - | Rel-16 | F | 5G\_eSBA | agreed |
| S3-203203 | NF-SCP Authorization | Nokia, Nokia Shanghai Bell | 33.501 | 1006 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-203501 | NF-SCP Authorization | Nokia, Nokia Shanghai Bell, Ericsson | 33.501 | 1006 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-203204 | SCP-SCP Authorization | Nokia, Nokia Shanghai Bell | 33.501 | 1007 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-203205 | Making NF instance id in SBA certificate profile mandatory to support | Nokia, Nokia Shanghai Bell | 33.501 | 1008 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-203227 | Selection of latest KAUSF for SoR/UPU and storage of KAUSF in the UE and AUSF | Ericsson | 33.501 | 1009 | - | Rel-16 | F | TEI16 | not pursued |
| S3-203249 | [Rel-15]Correction to derivation of KSN for dual connectivity | Samsung | 33.501 | 1010 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-203250 | [Mirror]Correction to derivation of KSN for dual connectivity | Samsung | 33.501 | 1011 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-203251 | Handling of KAUSF upon successful primary authentication | Samsung, Nokia, Nokia Shanghai Bell, Intel | 33.501 | 1012 | - | Rel-16 | F | TEI16 | not pursued |
| S3-203253 | Support for mutual authentication between network entities | Samsung, Verizon | 33.501 | 1013 | - | Rel-16 | F | TEI16 | revised |
| S3-203491 | Support for mutual authentication between network entities | Samsung, Verizon, Nokia, Nokia Shanghai Bell | 33.501 | 1013 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-203290 | Token-based authorization for indirect communication in roaming case | Ericsson | 33.501 | 1014 | - | Rel-16 | F | 5G\_eSBA | not pursued |
| S3-203309 | Anonymous SUCI for N5GC | Lenovo, Motorola Mobility | 33.501 | 1015 | - | Rel-16 | F | 5WWC | not pursued |
| S3-203311 | Selecting the authentication method for devices that do not support 5GC NAS over WLAN access | Lenovo, Motorola Mobility | 33.501 | 1016 | - | Rel-16 | F | 5WWC | not pursued |
| S3-203315 | Correcting use of (D)TLS in 33.501 | Ericsson | 33.501 | 1017 | - | Rel-16 | F | TEI16 | revised |
| S3-203506 | Correcting use of (D)TLS in 33.501 | Ericsson | 33.501 | 1017 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-202900 | Update the pre-condition in clause 4.2.2.1.1, 4.2.2.1.2, 4.2.2.1.9, 4.2.2.1.10 and 4.2.2.1.11 | ZTE Corporation | 33.511 | 0018 | - | Rel-16 | F | SCAS\_5G | not pursued |
| S3-203086 | Reference of general SBA/SBI aspect in 33.512 | Nokia, Nokia Shanghai Bell | 33.512 | 0008 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-203103 | Reference of general SBA/SBI aspect in 33.513 | Nokia, Nokia Shanghai Bell | 33.513 | 0003 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-203104 | Reference of general SBA/SBI aspect in 33.514 | Nokia, Nokia Shanghai Bell | 33.514 | 0004 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-203105 | Reference of general SBA/SBI aspect in 33.515 | Nokia, Nokia Shanghai Bell | 33.515 | 0006 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-203107 | Reference of general SBA/SBI aspect in 33.516 | Nokia, Nokia Shanghai Bell | 33.516 | 0002 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-203108 | Reference of general SBA/SBI aspect in 33.519 | Nokia, Nokia Shanghai Bell | 33.519 | 0003 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-202901 | Clarification of RID in clause 6.1 for AKMA | ZTE Corporation | 33.535 | 0035 | - | Rel-16 | F | AKMA | not pursued |
| S3-202902 | A new A-KID derivation after a new primary authentication | ZTE Corporation | 33.535 | 0036 | - | Rel-16 | F | AKMA | not pursued |
| S3-202903 | AAnF selection by AF | ZTE Corporation | 33.535 | 0037 | - | Rel-16 | F | AKMA | not pursued |
| S3-202904 | AKMA key lifetime expiration in clause 5.2 | ZTE Corporation | 33.535 | 0038 | - | Rel-16 | F | AKMA | not pursued |
| S3-202905 | Kakma and A-KID refresh in clause 6.1 | ZTE Corporation | 33.535 | 0039 | - | Rel-16 | F | AKMA | merged |
| S3-202906 | Kausf storing in AUSF | ZTE Corporation | 33.535 | 0040 | - | Rel-16 | F | AKMA | merged |
| S3-202907 | Resolution of editor's note on other parameter in clause 6.3 | ZTE Corporation | 33.535 | 0041 | - | Rel-16 | F | AKMA | not pursued |
| S3-202908 | Rewording Kaf refresh | ZTE Corporation | 33.535 | 0042 | - | Rel-16 | F | AKMA | not pursued |
| S3-202909 | the lifetime of KAF expiration | ZTE Corporation | 33.535 | 0043 | - | Rel-16 | F | AKMA | agreed |
| S3-202910 | UDM notifies AAnF AKMA context removal | ZTE Corporation | 33.535 | 0044 | - | Rel-16 | B | AKMA | not pursued |
| S3-202944 | Corrections of clause 6.1 | CATT | 33.535 | 0045 | - | Rel-16 | F | AKMA | revised |
| S3-203535 | Corrections of clause 6.1 | CATT | 33.535 | 0045 | 1 | Rel-16 | F | AKMA | agreed |
| S3-202945 | Editorial modifications of AKMA | CATT | 33.535 | 0046 | - | Rel-16 | F | AKMA | agreed |
| S3-202963 | Adding details of AKMA key generation in the UE | Huawei, Hisilicon | 33.535 | 0047 | - | Rel-16 | F | AKMA | revised |
| S3-203482 | Adding details of AKMA key generation in the UE | Huawei, Hisilicon | 33.535 | 0047 | 1 | Rel-16 | F | AKMA | agreed |
| S3-202967 | Adding AAnF selection | Huawei, Hisilicon | 33.535 | 0048 | - | Rel-17 | F | AKMA | not pursued |
| S3-203025 | Aware of AF‘s AKMA service capability in the UE | Huawei, HiSilicon | 33.535 | 0049 | - | Rel-17 | F | AKMA | not pursued |
| S3-203029 | Storage of the AKMA keys in the UE | THALES | 33.535 | 0050 | - | Rel-16 | B | AKMA | not pursued |
| S3-203037 | AKMA: Adding missing service definition | Huawei, Hisilicon | 33.535 | 0051 | - | Rel-16 | F | AKMA | revised |
| S3-203518 | AKMA: Adding missing service definition | Huawei, Hisilicon | 33.535 | 0051 | 1 | Rel-17 | F | AKMA | withdrawn |
| S3-203191 | Sending UE identifier to the AKMA AF | Qualcomm Incorporated | 33.535 | 0052 | - | Rel-16 | F | AKMA | not pursued |
| S3-203211 | Update of the reference point interface names of AKMA | Ericsson | 33.535 | 0053 | - | Rel-16 | F | AKMA | revised |
| S3-203493 | Update of the reference point interface names of AKMA | Ericsson | 33.535 | 0053 | 1 | Rel-16 | F | AKMA | agreed |
| S3-203213 | AKMA Anchor Function selection clause | Ericsson | 33.535 | 0054 | - | Rel-16 | F | AKMA | not pursued |
| S3-202882 | Corrections on security establishment | InterDigital, Europe, Ltd. | 33.536 | 0017 | - | Rel-16 | F | eV2XARC | agreed |
| S3-202884 | Security policy handling | Nokia, Nokia Shanghai Bell | 33.536 | 0018 | - | Rel-16 | F | eV2XARC | not pursued |
| S3-202952 | Clarification on cross-layer indication triggered by updating the security context | Huawei, Hisilicon | 33.536 | 0019 | - | Rel-16 | F | eV2XARC | revised |
| S3-203480 | Clarification on cross-layer indication triggered by updating the security context | Huawei, Hisilicon, LG Electronics | 33.536 | 0019 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-202953 | Propose to improve the user plane security policy handling logic | Huawei, Hisilicon | 33.536 | 0020 | - | Rel-16 | F | eV2XARC | revised |
| S3-203481 | Proposal for improvement of the user plane security policy handling logic | Huawei, Hisilicon, Interdigital | 33.536 | 0020 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-203051 | Clarification on the security policy handling | Huawei, Hisilicon | 33.536 | 0021 | - | Rel-16 | F | eV2XARC | revised |
| S3-203521 | Clarification on the security policy handling | Huawei, Hisilicon | 33.536 | 0021 | 1 | Rel-16 | F | eV2XARC | agreed |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Document | Original | Title | From | Decision | Reply TDoc |
| S3-202821 |  | LS response to TCCA on Public Safety | GSMA 5G Joint-Activity (5GJA) | noted | (none) |
| S3-202822 |  | Support of UAVs in 3GPP system and interfacing with USS/UTM | GSMA | noted | (none) |
| S3-202823 |  | Use of 256-bit block Rijndael in Milenage-256 | ETSI SAGE | replied to | S3-203550 |
| S3-202824 |  | Answer to ETSI SAGE LS dated 5 June 2020 regarding the use of 256-bit block Rijndael in Milenage-256 | TCA (Trusted Connectivity Alliance) | noted | (none) |
| S3-202825 |  | LS on 5G-GUTI reallocation after paging of a UE in 5GMM-IDLE mode with suspend indication | C1-200967 | postponed | (none) |
| S3-202826 |  | LS on NSSAA at inter-PLMN mobility | C1-206508 | noted | (none) |
| S3-202827 |  | LS on the re-keying procedure for NR SL | R2-2005978 | noted | (none) |
| S3-202828 |  | Reply LS on the re-keying procedure for NR SL | C1-206576 | replied to | S3-203483 |
| S3-202829 |  | LS on Clarification on processing of messages after NAS security establishment | C1-206582 | noted | (none) |
| S3-202830 |  | LS on MuDe functionality | C1-206625 | noted | (none) |
| S3-202831 |  | LS on AUSF/UDM discovery based on SUCI information | C4-204337 | noted | (none) |
| S3-202832 |  | LS on Misalignments on HTTP message format over N32-f | C4-204409 | replied to | S3-203522 |
| S3-202833 |  | LS on information of stage 3 aspects for AKMA | CP-202255 | noted | (none) |
| S3-202834 |  | Reply LS on ETSI Plugtest reports | ETSI MCX Plugtests | noted | (none) |
| S3-202835 |  | Reply LS to SA3 on FBS detection | R2-1914224 | postponed | (none) |
| S3-202836 |  | LS on propagation of user consent related information during Xn inter-PLMN handover | R3-204378 | postponed | (none) |
| S3-202837 |  | LS on architectures for access to SNPNs using credentials owned by an entity separate from the SNPN | S2-2004385 | replied to | S3-203399 |
| S3-202838 |  | LS on Security Requirements for Sidelink/PC5 Relays | S2-2004750 | postponed | (none) |
| S3-202839 |  | LS on IP address to GPSI translation | S2-2005923 | noted | (none) |
| S3-202840 |  | LS on System support for Multi-USIM devices | S2-2006011 | replied to | S3-203356 |
| S3-202841 |  | LS on method for collection of data from the UE | S2-2006292 | postponed | (none) |
| S3-202842 |  | LS on Clarification on AAA-Server address | C4-203452 | noted | (none) |
| S3-202843 |  | LS Response on Clarification on AAA-Server address | S2-2007826 | noted | (none) |
| S3-202844 |  | LS on NG-RAN broadcast of Onboarding Network information in the SIB | S2-2007849 | replied to | S3-203402 |
| S3-202845 |  | LS on authorization to access data | S2-2007931 | replied to | S3-203368 |
| S3-202846 |  | LS on SA2 progress on UE-to-Network Relay and UE-to-UE Relay | S2-2007945 | noted | (none) |
| S3-202847 |  | LS on Reference point interface names for AKMA | S2-2008003 | noted | (none) |
| S3-202848 |  | Regulatory LI compliance of AKMA | S3i200477 | replied to | S3-202950 |
| S3-202849 |  | Reply LS on IP address to GPSI translation | S6-202008 | replied to | S3-203360 |
| S3-202850 |  | Reply to LS on Resynchronisations | ETSI SAGE | postponed | (none) |
| S3-202851 |  | Observations and questions on 256-bit security goals | ETSI SAGE | replied to | S3-203500 |
| S3-202852 |  | Independent evaluation of SNOW V | ETSI SAGE | postponed | (none) |
| S3-202853 |  | LS on Physical layer assisted lightweight AKA (PL-AKA) protocol for the Internet of things | ITU-T SG17 | replied to | S3-203492 |
| S3-202854 |  | Comments on physical layer assisted lightweight AKA (PL-AKA) protocol for the Internet of things | ETSI SAGE | noted | (none) |
| S3-202855 |  | LS on threats of service disruption, SIP message alteration and content eavesdropping in 5G networks | ITU-T SG17 | replied to | S3-203498 |
| S3-202856 |  | LS on Security requirements for vertical services supporting Ultra Reliable and Low Latency Communication (URLLC) in the 5G non-public networks | ITU-T SG17 | noted | (none) |
| S3-202857 |  | LS on SG17 new work item 'Security Methodology for Zero-Touch Massive IoT Deployment | ITU-T SG17 | postponed | (none) |
| S3-202858 |  | LS on SG17 new work item “Security aspect on electric vertical take-off and landing (eVTOL) vehicle” | ITU-T SG17 | noted | (none) |
| S3-202859 |  | LS on draft ITU-T X.nsom-sec ‘Security requirements and architecture for network slice management and orchestration’ | ITU-T SG17 | noted | (none) |
| S3-202860 |  | LS on the stage 2 aspects of MINT (SP-200654 / C1-205332) | SP-200880 | noted | (none) |
| S3-202861 |  | LS on 5G GUTI re-allocation | SP-200883 | noted | (none) |
| S3-202862 |  | LS on Rel-17 schedule | SP-200888 | noted | (none) |
| S3-203338 |  | 256-bit algorithms based on SNOW 3G or SNOW V | ETSI SAGE | postponed | (none) |

### C2: Outgoing liaison statements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Document | Title | To | Cc | reply to i/c LS |
| S3-202950 | Reply LS on Regulatory LI compliance of AKMA | SA3-LI | - | S3-202848 |
| S3-203339 | LS on clarification regarding EEC ID | SA6 | - |  |
| S3-203356 | LS Reply to SA2 on System support for MUSIM devices | SA2 | - | S3-202840 |
| S3-203360 | Reply LS on IP address to GPSI translation | SA6, SA2 | - | S3-202849 |
| S3-203368 | Reply to LS on authorization to access data | SA2 | - | S3-202845 |
| S3-203399 | LS on AAA based solutions for credentials owned by an entity separate from the SNPN | SA2 | - | S3-202837 |
| S3-203402 | Reply LS on NG-RAN broadcast of Onboarding Network information in the SIB | SA2 | - | S3-202844 |
| S3-203466 | LS on locating the DCS with the help of SUPI or SUCI | SA2 | - |  |
| S3-203483 | Reply LS on the re-keying procedure for NR SL | RAN2, CT1 | - | S3-202828 |
| S3-203492 | LS on Physical layer assisted lightweight AKA (PL-AKA) protocol for the Internet of things | ITU-T SG17 | GSMA, ETSI CYBER, ETSI SAGE, ISO/IEC JTC 1/SC 27/WG 3, 3GPP RAN1, 3GPP RAN2 | S3-202853 |
| S3-203494 | LS on AKMA Anchor Function selection | SA2 | - |  |
| S3-203495 | LS: Misalignment on requirement for access token request between TS 29.510 and 33.501 | CT4 | - |  |
| S3-203498 | Reply LS on threats of service disruption, SIP message alternation and content eavesdropping in 5G networks | ITU-T SG17 | GSMA FASG | S3-202855 |
| S3-203500 | Reply LS on Observations and questions on 256-bit security goals | ETSI SAGE | - | S3-202851 |
| S3-203522 | Reply LS on Misalignments on HTTP message format over N32-f | CT4 | - | S3-202832 |
| S3-203534 | LS to CT6 on the NAS COUNTs storage | CT6 | - |  |
| S3-203550 | Reply LS to ETSI SAGE on use of 256-bit block Rijndael in Milenage-256 | ETSI SAGE, TCA | - | S3-202823 |

## Annex D: List of agreed/approved new and revised Work Items

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Title | Source | new/revised |
| S3-203504 | FS\_eSBA\_SEC | Nokia, Nokia Shanghai Bell, Mavenir, CableLabs, Deutsche Telekom, Verizon, Vodafone, T-Mobile, Docomo, China Mobile, Huawei, HiSilicon, Samsung | SID new |
| S3-202868 | New WID on removal AKMA from Rel-16 | China Mobile | WID new |
| S3-203484 | New WID on adapting BEST for use in 5G networks | KPN N.V. | WID new |
| S3-203485 | Revised WID of AKMA | China Mobile | WID revised |

## Annex E: List of draft Technical Specifications and Reports

|  |  |  |  |
| --- | --- | --- | --- |
| Document | Spec | vers | Doc title |
| S3-203335 | 33.853 | 1.2.0 | Draft TR 33.853 v1.2.0 |
| S3-203336 | 33.845 | 0.5.0 | Draft TR 33.845 v0.5.0 |
| S3-203350 | 33.818 | 0.9.0 | draft TR33.818 v0.9.0 |
| S3-203380 | 33.845 | 0.6.0 | Draft TR 33.845 v0.6.0 |
| S3-203383 | 33.853 | 1.3.0 | Draft TR 33.853 v1.3.0 |
| S3-203388 | 33.846 | 0.9.0 | Draft TR 33.846 v0.9.0 Study on authentication enhancements in the 5G System (5GS) |
| S3-203389 | 33.851 | 0.3.0 | TR\_33.851\_IIoT\_Sec |
| S3-203392 | 33.864 | 0.2.0 | Draft TR 33.864 v0.2.0 Study on the security of Access and Mobility Management Function (AMF) re-allocation |
| S3-203400 | 33.857 | 0.3.0 | Draft TR 33857 v030 Study on enhanced security support for Non-Public Networks (NPN) |
| S3-203415 | 33.840 | 0.2.0 | TR33.840 v0.2.0 |
| S3-203436 | 33.839 | 0.3.0 | Draft TR 33.839 v0.3.0 |
| S3-203447 | 33.809 | 0.12.0 | TR 33.809-5GFBS |
| S3-203455 | 33.850 | 0.3.0 | Draft TR 33.850 |
| S3-203456 | 33.824 | 0.7.0 | Draft TR33.824 v0.7.0 |
| S3-203458 | 33.867 | 0.2.0 | Draft TR 33.867 |
| S3-203459 | 33.847 | 0.3.0 | Draft TR 33.847 v0.3.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS |
| S3-203463 | 33.866 | 0.2.0 | draft TR 33.866 0.2.0 |
| S3-203464 | 33.862 | 0.2.0 | draft TR 33.862 0.2.0 |
| S3-203467 | 33.854 | 0.3.0 | TR 33.854 v0.3.0 |
| S3-203490 | 33.521 | 0.2.0 | draft TS 33.521v0.2.0 |
| S3-203514 | 33.326 | 0.0.0 | skeleton of NSSAAF SCAS |
| S3-203517 | 33.226 | 0.3.0 | Draft TS 33.226 v0.3.0 |
| S3-203549 | 33.326 | 0.1.0 | TS 33.326 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Dr. | Arumugam | Sivabalan | Rakuten Mobile, Inc | Rakuten Mobile, Inc |
| Prof. | Babbage | Steve | VODAFONE Group Plc | VODAFONE Group Plc |
| Dr. | Baboescu | Florin | BROADCOM CORPORATION | BROADCOM CORPORATION |
| Dr. | Baskaran | Sheeba Backia Mary | Motorola Mobility Germany GmbH | Motorola Mobility España SA |
| Dr. | Ben Henda | Noamen | Ericsson LM | Ericsson LM |
| Ms. | Bi | Xiaoyu | CATT | CATT |
| Mr. | Bjerrum | Bo Holm | Nokia Corporation | Nokia Corporation |
| Mr. | Brown | Michael | Affirmed Networks Inc. | Affirmed Networks Inc. |
| Mr. | Brusilovsky | Alec | InterDigital, Inc. | InterDigital Communications |
| Mr. | Bykampadi | Nagendra | Altiostar | Altiostar |
| Mr. | Cano Soveri | Mirko | ETSI | ETSI |
| Mr. | Canterbury | Mark | Tencastle Limited | National Technical Assistance |
| Mr. | Castagno | Mauro | TELECOM ITALIA S.p.A. | TELECOM ITALIA S.p.A. |
| Mr. | Choyi | Vinod Kumar | Verizon UK Ltd | Verizon Switzerland AG |
| Mr. | Chun | SungDuck | LG Electronics France | LG Electronics France |
| Mr. | Cichonski | Jeffrey | NIST | NIST |
| Ms. | Comak | Pinar | Ericsson LM | Ericsson LM |
| Dr. | Corbett | Cherita | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Dees | Walter | Philips International B.V. | Philips International B.V. |
| Ms. | Deng | Juan | HuaWei Technologies Co., Ltd | Huawei Technologies Sweden AB |
| Mr. | Doerr | Johannes | BMWi | BMWi |
| Mr. | Dressler | Christian | ZITiS | ZITiS |
| Dr. | Ekdahl | Patrik | Ericsson LM | Ericsson LM |
| Mr. | Ennesser | Francois | Huawei Technologies France | Huawei Technologies France |
| Dr. | Escott | Adrian | Qualcomm CDMA Technologies | QUALCOMM Europe Inc. - Italy |
| Mr. | Evans | Tim P. | VODAFONE Group Plc | Vodafone GmbH |
| Mr. | Everett | Jared | Johns Hopkins University APL | Johns Hopkins University APL |
| Dr. | Falk | Rainer | Siemens AG | Siemens AG |
| Mr. | Ferdi | Samir | InterDigital, Inc. | InterDigital, Europe, Ltd. |
| Mr. | Gamishev | Todor | Orange | Orange Spain |
| Dr. | Garcia-Morchon | Oscar | Philips International B.V. | Philips International B.V. |
| Mr. | Goldberg | Martin | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | Grewal | Rajpreet Singh | NTIA | NTIA |
| Ms. | Guo | Ivy | Apple Computer Trading Co. Ltd | Apple Computer Trading Co. Ltd |
| Mr. | Guo | Longhua | HUAWEI TECH. GmbH | HiSilicon Technologies Co. Ltd |
| Mr. | Hanhisalo | Markus | Ericsson LM | Ericsson LM |
| Mr. | Hegedus | Gabor | SSNS | SSNS |
| Mr. | Hoffpauir | Dusty | Charter Communications, Inc | Charter Communications, Inc |
| Miss | Huang | Xiaoting | China Mobile Com. Corporation | China Mobile International Ltd |
| Miss | Jerichow | Anja | Nokia Germany | Nokia Germany |
| Dr. | Jost | Christine | Ericsson LM | Ericsson LM |
| Dr. | Karakoc | Ferhat | Ericsson LM | Ericsson LM |
| Dr. | Keesmaat | Iko | TNO | TNO |
| Mr. | Kim | Dongjoo | LG Electronics Inc. | LG Electronics Inc. |
| Dr. | Kim | Hongil | Qualcomm Incorporated | Qualcomm Incorporated |
| Dr. | Kim | Joonwoong | SK Telecom | SK Telecom |
| Mr. | Kim | Warren | Johns Hopkins University APL | Johns Hopkins University APL |
| Mr. | Kohalmi | Steve | Juniper Networks | Juniper Networks |
| Mr. | Kolekar | Abhijeet | Intel Corporation (UK) Ltd | Intel |
| Ms. | Koser | Elizabeth | U.S. Department of Defense | U.S. Department of Defense |
| Dr. | Kunz | Andreas | Motorola Mobility Germany GmbH | Motorola Mobility UK Ltd. |
| Mr. | Laitinen | Mika | Airbus | Airbus |
| Mr. | Leadbeater | Alex | BT plc | BT plc |
| Dr. | Lee | Soo Bum | Qualcomm Incorporated | Qualcomm Incorporated |
| Mr. | Lee | Xiaoyang | CISA ECD | CISA ECD |
| Mr. | Lehtovirta | Vesa | Ericsson LM | Ericsson LM |
| Dr. | LEI | AO | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Tech.(UK) Co., Ltd |
| Dr. | Lei | Zander (Zhongding) | HuaWei Technologies Co., Ltd | Huawei Technologies Japan K.K. |
| Mr. | Li | He | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Libunao | Gerardo | Verizon UK Ltd | Verizon UK Ltd |
| Mr. | Liu | Chang | China Mobile Research Inst. | China Mobile Com. Corporation |
| Dr. | Liu | Fuwen | China Mobile Com. Corporation | China Mobile (Suzhou) Software |
| Mr. | LIU | Jianning(Carry) | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Mr. | Liu | Yuze | ZTE Corporation | ZTE Corporation |
| Mr. | Loushine | Mike | AT&T | AT&T |
| Mr. | Lu | Chengsui | Alibaba (China) Group., Ltd. | Alibaba (China) Group., Ltd. |
| Miss | Lu | Wei | Nokia Korea | Nokia Shanghai Bell |
| Mr. | Manganahalli Jayaprakash | Sandesh | TNO | KPN N.V. |
| Miss | Massascusa | Sofia | STMicroelectronics | STMicroelectronics |
| Dr. | Maximov | Alexander | Ericsson LM | Ericsson LM |
| Mr. | Munib SHah | Munib | Cisco Systems | Cisco Systems |
| Ms. | Nair | Divya | T-Mobile USA | T-Mobile USA |
| Mr. | Nair | Suresh | Nokia Germany | Nokia |
| Mr. | Nakarmi | Prajwol Kumar | Ericsson Limited | Ericsson España S.A. |
| Mr. | Niemi | Marko | MediaTek Inc. | MediaTek Inc. |
| Mr. | Normann | Henrik Andreas | Ericsson LM | Ericsson España S.A. |
| Mr. | O'Driscoll | James | NCSC | NCSC |
| Mr. | Palanigounder | Anand | Qualcomm Technologies Int | Qualcomm Incorporated |
| Ms. | Parambath Sasi | NIvedya | Samsung R&D Institute India | Samsung Electronics France SA |
| Dr. | Park | Justin | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | Pätzold | Thomas | Deutsche Telekom AG | Deutsche Telekom AG |
| Mr. | PENG | Jin | ZTE Corporation | ZTE Corporation |
| Mr. | Qi | Minpeng | China Mobile Com. Corporation | China Mobile Com. Corporation |
| Mr. | Qi | Yang | Qihoo 360 | Qihoo 360 |
| Mr. | Rajadurai | Rajavelsamy | Samsung R&D Institute UK | Samsung Research America |
| Ms. | Rajendran | Rohini | Samsung R&D Institute India | BEIJING SAMSUNG TELECOM R&D |
| Mr. | ren | xiongpeng | Xidian University | Xidian University |
| Mrs. | Rong | Wu | HUAWEI TECHNOLOGIES Co. Ltd. | HuaWei Technologies Co., Ltd |
| Mr. | Schumacher | Greg | T-Mobile USA | T-Mobile USA |
| Dr. | Shyy | DJ | MITRE Corporation | MITRE Corporation |
| Mr. | Smith | Brian | Bell Mobility | Bell Mobility |
| Ms. | Sun | Yunqing | Xidian University | Xidian University |
| Mr. | Syrett | Mark | Hewlett-Packard Enterprise | Hewlett-Packard Enterprise |
| Mr. | tang | rain | Beijing OPPO Com. corp., ltd | Beijing OPPO Com. corp., ltd |
| Mr. | Tiwari | Kundan | NEC Corporation | NEC Corporation |
| Mr. | Toor | Gurbakshish Singh | TD Tech Ltd | Huawei Device Co., Ltd |
| Mr. | Torrecilla | Joaquin | Keysight Technologies UK Ltd | Keysight Technologies UK Ltd |
| Ms. | Trakinat | Jean | T-Mobile USA Inc. | T-Mobile USA Inc. |
| Mr. | Trygar | Tobey | Perspecta Labs Inc. | Perspecta Labs Inc. |
| Dr. | Tsiatsis | Vlasios | Ericsson LM | Ericsson España S.A. |
| Mrs. | Vahidi | Helena | Ericsson LM | Ericsson LM |
| Ms. | Villebrun | Emmanuelle | Ministère Economie et Finances | Ministère Economie et Finances |
| Dr. | Wan | Tao | CableLabs | CableLabs |
| Mr. | Whorlow | Colin | NCSC | HOME OFFICE |
| Ms. | Wifvesson | Monica | Ericsson LM | Ericsson LM |
| 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 Co. Ltd. |
| Ms. | Xing | Zhen | ZTE Wistron Telecom AB | ZTE Corporation |
| Ms. | Xing | Zhen | ZTE Corporation | ZTE Corporation |
| Mr. | xu | sen | China Telecommunications | China Telecommunications |
| Mr. | Xu | Yang | Guangdong OPPO Mobile Telecom. | Guangdong OPPO Mobile Telecom. |
| Mr. | Yoo | Mike | Johns Hopkins University APL | Johns Hopkins University APL |
| Dr. | Yu | Xiaobo | Alibaba (China) Group., Ltd. | Alibaba (China) Group., Ltd. |
| Dr. | Zhang | Bo | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI Technologies Japan K.K. |
| Ms. | Zhang | Wanqiao | Alibaba (China) Group., Ltd. | Alibaba (China) Group., Ltd. |
| Mr. | Zhou | Wei | CATT | CATT |
| Mr. | Zhu | Chunhui | Spreadtrum Communications | Spreadtrum Communications |
| 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#102e | 18-01-2021 | 29-01-2021 |  | Electronic meeting | SA3#102e |
| SA3#102e-Bis | 01-03-2021 | 05-03-2021 |  | Electronic meeting | SA3#102e-Bis |
| SA3#103e | 17-05-2021 | 28-05-2021 |  | Electronic meeting | SA3#103e |