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

**Meeting Report  
for  
TSG SA WG3  
meeting: 102e**

**Electronic meeting, Online, 18/01/2021 to 29/01/2021**

Contents:

1 Agenda and Meeting Objectives 3

2 Meeting Reports 3

3 Reports and Liaisons from other Groups 3

4 Work areas 7

4.1 Security aspects of 5G System - Phase 1 (Rel-15) 7

4.2 Security Assurance Specification for 5G (Rel-16) 12

4.3 Mission Critical security (Rel-16) 14

4.4 Security Aspects of the 5G Service Based Architecture (Rel-16) 14

4.5 Authentication and key management for applications based on 3GPP credential in 5G (Rel-16) 18

4.6 Evolution of Cellular IoT security for the 5G System (Rel-16) 21

4.7 Security of the Wireless and Wireline Convergence for the 5G system architecture (Rel-16) 22

4.9 Security aspects of Enhancement of Network Slicing (Rel-16) 23

4.10 Security Aspects of 3GPP support for Advanced V2X Services (Rel-16) 24

4.11 Integration of GBA into 5GC (Rel-17) 25

4.12 Security Assurance Specification for IMS (Rel-17) 26

4.13 Security Assurance Specification Enhancements for 5G (Rel-17) 28

4.14 Security Assurance Specification for Service Communication Proxy (SECOP) (Rel-17) 31

4.15 Security Assurance Specification for 5G NWDAF (Rel-17) 31

4.16 Security Assurance Specification for Non-3GPP InterWorking Function (N3IWF) (Rel- 17) 31

4.17 Security Assurance Specification for Inter PLMN UP Security (Rel-17) 33

4.18 eSCAS\_5G for Network Slice-Specific Authentication and Authorization Function (NSSAAF) (Rel-17) 33

4.19 Mission critical security enhancements phase 2 (Rel-17) 34

4.20 Enhancements to User Plane Integrity Protection Support in 5GS (Rel-17) 34

4.21 Adapting BEST for use in 5G networks (Rel-17) 36

4.22 New work item proposals 36

4.23 Other work areas (no release restrictions) 37

5 Studies areas 43

5.1 Study on 5G security enhancement against false base stations 43

5.2 Study on SECAM and SCAS for 3GPP virtualized network products 46

5.3 Study on User Plane Integrity Protection 48

5.4 Study on Security Impacts of Virtualisation 53

5.5 Study on authentication enhancements in 5GS 53

5.6 Study on storage and transport of 5GC security parameters for ARPF authentication 59

5.7 Study on security aspects of Unmanned Aerial Systems 64

5.8 Study on Security Aspects of Enhancement of Support for Edge Computing in 5GC 69

5.9 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS 75

5.10 Study on security for enhanced support of Industrial IoT 86

5.11 Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services 88

5.12 Study on enhanced security support for Non-Public Networks 92

5.13 Study on security aspects of the Disaggregated gNB Architecture 100

5.14 Study on User Consent for 3GPP services 101

5.15 Study on security aspects of the 5GMSG Service 104

5.16 Study on security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) Phase 2 105

5.17 Study on the security of AMF re-allocation 110

5.18 Study on Security for NR Integrated Access and Backhaul 114

5.19 Study on the security of the system enablers for devices having multiple Universal Subscriber Identity Modules 114

5.20 Study on enhanced Security Aspects of the 5G Service Based Architecture 116

5.21 New study item proposals 118

5.22 Other study areas (no release restrictions) 119

6 CVD and research 119

7 Any Other Business 119

Annex A: Contribution documents and status 121

A1: List of TDocs 121

A2: Tdoc decision timing 139

Annex B: List of change requests 140

Annex C: Lists of liaisons 147

C1: Incoming liaison statements 147

C2: Outgoing liaison statements 148

Annex D: List of agreed/approved new and revised Work Items 150

Annex E: List of draft Technical Specifications and Reports 151

Annex F: List of participants 153

Annex G: List of future meetings 157

## 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.

**S3-210000 Agenda**

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

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

**S3-210002 Process for SA3#102e meeting**

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

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

**S3-210719 Process and agenda presentation for SA3#102e**

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

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

## 2 Meeting Reports

**S3-210001 Report from SA3#101e meeting**

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

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

**S3-210003 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

**S3-210048 TCG progress - report from TCG rapporteur**

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

**Abstract:**

It is proposed to add the contents of this contribution in the appropriate section, similar to “Reports and Liaisons from other Groups – TCG” of SA3#102-e meeting report.

**Discussion:**

Publication of new or revised deliverables (incremental changes from the status reported at SA3#101-e)

• TCG Canonical Event Log Format – public review December 2020

• TCG Endorsement Key Credential Profile – public review December 2020

• TCG Reference Integrity Manifest (RIM) Information Model – published November 2020

• TCG PC Client Reference Integrity Manifest – published November 2020

• TCG Cyber Resilient Module & Building Block Requirements – public review November 2020

• TCG SMBIOS-based Component Class Registry – public review November 2020

• TCG PC Client Platform Firmware Integrity Measurement – public review November 2020

• TCG MARS Use Cases and Considerations – public review October 2020

• TCG PC Client Platform Firmware Profile – public review October 2020

• TCG TPM 2.0 Keys for Device Identity and Attestation – public review October 2020

• TCG DICE Attestation Architecture – public review October 2020

Meetings

• TCG Members Meeting Virtual F2F – 22-26 February 2021

• MP WG meets every Monday at 10-11 ET

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

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

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

**S3-210033 TC CYBER Activities**

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

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

**S3-210006 User location identification from Carrier Aggregation secondary cell activation messages**

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

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

**S3-210302 Reply LS on SLIC**

*Type: LS out For: Approval  
 to RAN2  
 Source: Ericsson Limited*

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

**S3-210293 Reply LS on User location identification from Carrier Aggregation secondary cell activation messages**

*Type: LS out For: Approval  
 to GSMA FSAG, cc RAN2  
 Source: HUAWEI TECHNOLOGIES Co. Ltd.*

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

**S3-210013 Independent evaluation of SNOW V**

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

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

**S3-210014 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**.

**S3-210095 Choice of cryptographic algorithm in 256-bit Milenage**

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

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

**S3-210530 Notes: SAGE/SA3 2nd joint conference call on the 256-bit topics**

*Type: report For: Information  
 Source: NTT DOCOMO INC.*

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

**S3-210007 LS on broadcasting gNB ID length in system information block**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-207226*

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

**S3-210008 Reply LS on MuDe functionality**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S1-204380*

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

**S3-210010 LS Response on Support of L2TP in PFCP**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2009331*

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

**S3-210015 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 **noted**.

**S3-210016 LS on Use of Inclusive Language in 3GPP**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: SP-201143*

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

**S3-210023 Reply LS on AUSF/UDM discovery based on SUCI information**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2009207*

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

**S3-210024 LS on Support of L2TP on SGi/N6 with Control and User Plane Separation**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-205478*

**Decision:** The document was **replied to in S3-210791**.

**S3-210791 Reply-LS on Support of L2TP on SGi/N6 with Control and User Plane Separation**

*Type: LS out For: Approval  
 to CT4, cc SA2, CT3  
 Source: Ericsson*

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

**S3-210019 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 **withdrawn**.

**S3-210031 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 **withdrawn**.

## 4 Work areas

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

**S3-210065 Error code details - Resolving ed note in 13.2.2.6**

*Type: CR For: Agreement  
 33.501 v15.11.0 CR-0902 rev 1 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201797)

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

**S3-210074 Error code details - Resolving ed note in 13.2.2.6**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-0902 rev 2 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-201797)

**Decision:** The document was **revised to S3-210723**.

**S3-210075 Error code details - Resolving ed note in 13.2.2.6**

*Type: CR For: Agreement  
 33.501 v17.0.0 CR-1019 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210724**.

**S3-210102 Optional registration of NF Service Consumer to NRF**

*Type: CR For: (not specified)  
 33.501 v15.11.0 CR-1024 Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

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

**S3-210103 Optional registration of NF Service Consumer to NRF**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1025 Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

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

**S3-210104 Optional registration of NF Service Consumer to NRF**

*Type: CR For: (not specified)  
 33.501 v17.0.0 CR-1026 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Huawei, HiSilicon*

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

**S3-210238 Correction to the access token storage in NF service consumer**

*Type: CR For: Approval  
 33.501 v15.11.0 CR-1033 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

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

**S3-210239 Correction to the access token storage in NF service consumer**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1034 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210735**.

**S3-210240 Correction to the access token storage in NF service consumer**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1035 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210736**.

**S3-210339 Typo correction in clause 6.9.9.4**

*Type: CR For: (not specified)  
 33.501 v17.0.0 CR-1042 Cat: A (Rel-17)  
  
 Source: Xidian University*

**Abstract:**

In 6.9.9.4, the “EPS NAS security” is corrected to “5G NAS security”

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

**S3-210382 Align the JSON format on encryption IE with CT4 in Rel15**

*Type: CR For: Approval  
 33.501 v15.11.0 CR-1046 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210748**.

**S3-210383 Mirror: align the JSON format on encryption IE with CT4 in Rel16**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1047 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210749**.

**S3-210384 Mirror: align the JSON format on encryption IE with CT4 in Rel17**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1048 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210750**.

**S3-210385 Adding the security requirement with encBlockIndex in Rel15**

*Type: CR For: Approval  
 33.501 v15.11.0 CR-1049 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

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

**S3-210386 Mirror Adding the security requirement with encBlockIndex in Rel16**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1050 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210751**.

**S3-210387 Mirror Adding the security requirement with encBlockIndex in Rel17**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1051 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210752**.

**S3-210395 Clarification on PLMN ID verification in Rel15**

*Type: CR For: Approval  
 33.501 v15.11.0 CR-1052 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

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

**S3-210396 Clarification on PLMN ID verification in Rel16**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1053 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-210397 Discussion paper on TAU reject issue during MME handover**

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

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

**S3-210398 LS on TAU reject issue during MME handover**

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

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

**S3-210413 OAuth 2.0 client registration and NF Service registration**

*Type: discussion For: Discussion  
 Source: Ericsson*

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

**S3-210467 Typo correction in clause 6.9.9.4**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1061 Cat: A (Rel-16)  
  
 Source: Xidian University*

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

**S3-210515 Updated proposal to introduce draft-ietf-emu-rfc5448bis to TS 33.501**

*Type: discussion For: Discussion  
 Source: Ericsson*

(Replaces S3-203322)

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

**S3-210532 Typo correction in clause 6.9.4.4**

*Type: CR For: (not specified)  
 33.501 v15.11.0 CR-1064 Cat: F (Rel-15)  
  
 Source: Xidian University*

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

**S3-210545 resolving ed note on protection policy mismatch**

*Type: CR For: (not specified)  
 33.501 v15.11.0 CR-1065 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO INC.*

**Decision:** The document was **revised to S3-210792**.

**S3-210546 Typo correction in clause 6.9.4.4**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1066 Cat: A (Rel-16)  
  
 Source: Xidian University*

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

**S3-210547 Typo correction in clause 6.9.4.4**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1067 Cat: A (Rel-16)  
  
 Source: Xidian University*

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

**S3-210548 Typo correction in clause 6.9.4.4**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1068 Cat: A (Rel-16)  
  
 Source: Xidian University*

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

**S3-210549 Typo correction in clause 6.9.4.4**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1069 Cat: A (Rel-16)  
  
 Source: Xidian University*

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

**S3-210550 Typo correction in clause 6.9.4.4**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1070 Cat: A (Rel-16)  
  
 Source: Xidian University*

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

**S3-210551 resolving ed note on protection policy mismatch**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1071 Cat: A (Rel-16)  
  
 Source: NTT DOCOMO INC.*

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

**S3-210552 resolving ed note on protection policy mismatch**

*Type: CR For: Agreement  
 33.501 v17.0.0 CR-1072 Cat: A (Rel-17)  
  
 Source: NTT DOCOMO INC.*

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

**S3-210723 Resolving editor's note on encryption policy mismatch between SEPPs**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-0902 rev 3 Cat: A (Rel-16)  
  
 Source: NTT Docomo, Nokia, Nokia Shanghai Bell*

(Replaces S3-210074)

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

**S3-210724 Resolving editor's note on encryption policy mismatch between SEPPs**

*Type: CR For: Agreement  
 33.501 v17.0.0 CR-1019 rev 1 Cat: A (Rel-17)  
  
 Source: NTT Docomo, Nokia, Nokia Shanghai Bell*

(Replaces S3-210075)

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

**S3-210735 Correction to the access token storage in NF service consumer**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1034 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-210239)

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

**S3-210736 Correction to the access token storage in NF service consumer**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1035 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-210240)

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

**S3-210748 Align the JSON format on encryption IE with CT4 in Rel15**

*Type: CR For: Approval  
 33.501 v15.11.0 CR-1046 rev 1 Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210382)

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

**S3-210792 Resolving editor's note on encryption policy mismatch between SEPPs**

*Type: CR For: (not specified)  
 33.501 v15.11.0 CR-1065 rev 1 Cat: F (Rel-15)  
  
 Source: NTT DOCOMO INC., Nokia, Nokia Shanghai Bell*

(Replaces S3-210545)

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

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

**S3-210090 gNB Cipher Security Policy Verification**

*Type: CR For: Agreement  
 33.511 v16.5.0 CR-0019 Cat: F (Rel-16)  
  
 Source: Futurewei*

**Decision:** The document was **revised to S3-210795**.

**S3-210091 gNB Integrity Security Policy Verification**

*Type: CR For: Agreement  
 33.511 v16.5.0 CR-0020 Cat: F (Rel-16)  
  
 Source: Futurewei*

**Decision:** The document was **revised to S3-210796**.

**S3-210100 SCAS Protection Policies - TBD updated**

*Type: CR For: (not specified)  
 33.517 v16.1.0 CR-0005 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210729**.

**S3-210101 Protection policies test case**

*Type: CR For: (not specified)  
 33.517 v16.1.0 CR-0006 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, NTT Docomo, Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210730**.

**S3-210364 SCAS: Correction of incomplete test cases**

*Type: CR For: Approval  
 33.512 v16.4.0 CR-0009 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-210378 Clarification on confidential IEs replacement handling in original N32-f message**

*Type: CR For: Approval  
 33.517 v16.1.0 CR-0007 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210745**.

**S3-210379 Clarification on exposure of confidential IEs in N32-f message in TR 33.926**

*Type: CR For: Approval  
 33.926 v16.3.0 CR-0039 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210746**.

**S3-210729 SCAS Protection Policies - TBD updated**

*Type: CR For: (not specified)  
 33.517 v16.1.0 CR-0005 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-210100)

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

**S3-210730 Protection policies test case**

*Type: CR For: (not specified)  
 33.517 v16.1.0 CR-0006 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, NTT Docomo, Huawei, HiSilicon*

(Replaces S3-210101)

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

**S3-210745 Clarification on confidential IEs replacement handling in original N32-f message**

*Type: CR For: Approval  
 33.517 v16.1.0 CR-0007 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210378)

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

**S3-210746 Clarification on exposure of confidential IEs in N32-f message in TR 33.926**

*Type: CR For: Approval  
 33.926 v16.3.0 CR-0039 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210379)

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

**S3-210795 gNB Cipher Security Policy Verification**

*Type: CR For: Agreement  
 33.511 v16.5.0 CR-0019 rev 1 Cat: F (Rel-16)  
  
 Source: Futurewei*

(Replaces S3-210090)

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

**S3-210796 gNB Integrity Security Policy Verification**

*Type: CR For: Agreement  
 33.511 v16.5.0 CR-0020 rev 1 Cat: F (Rel-16)  
  
 Source: Futurewei*

(Replaces S3-210091)

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

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

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

**S3-210096 NF Service Consumer and Producer in Service Request Process**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1020 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210725**.

**S3-210097 Access Token Misuse Prevention**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1021 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210727**.

**S3-210098 NF Service Consumer and Producer in Service Request Process**

*Type: CR For: (not specified)  
 33.501 v17.0.0 CR-1022 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210726**.

**S3-210099 Access Token Misuse Prevention**

*Type: CR For: (not specified)  
 33.501 v17.0.0 CR-1023 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210728**.

**S3-210241 Correction to service request process in OAuth 2.0 based authorization rel16**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1036 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210793**.

**S3-210242 Correction to service request process in OAuth 2.0 based authorization rel17**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1037 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210794**.

**S3-210347 Clarification on the format of NF type in the NF certification**

*Type: CR For: Approval  
 33.310 v16.6.0 CR-0117 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon*

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

**S3-210381 Resolving the EN on the authorization between SCPs**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1045 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210747**.

**S3-210411 Corrections for the NRF token request service**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1054 Cat: F (Rel-16)  
  
 Source: Ericsson*

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

**S3-210412 Corrections for the NRF token request service**

*Type: CR For: Agreement  
 33.501 v17.0.0 CR-1055 Cat: A (Rel-17)  
  
 Source: Ericsson*

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

**S3-210699 LS on authorization for Indirect Communication and Delegated Discovery**

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

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

**S3-210725 NF Service Consumer and Producer in Service Request Process**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1020 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-210096)

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

**S3-210726 NF Service Consumer and Producer in Service Request Process**

*Type: CR For: (not specified)  
 33.501 v17.0.0 CR-1022 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-210098)

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

**S3-210727 Access Token Misuse Prevention**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1021 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, CableLabs, Mavenir*

(Replaces S3-210097)

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

**S3-210728 Access Token Misuse Prevention**

*Type: CR For: (not specified)  
 33.501 v17.0.0 CR-1023 rev 1 Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, CableLabs, Mavenir*

(Replaces S3-210099)

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

**S3-210747 Resolving the EN on the authorization between SCPs**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1045 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210381)

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

**S3-210749 Mirror: align the JSON format on encryption IE with CT4 in Rel16**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1047 rev 1 Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210383)

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

**S3-210750 Mirror: align the JSON format on encryption IE with CT4 in Rel17**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1048 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210384)

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

**S3-210751 Mirror Adding the security requirement with encBlockIndex in Rel16**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1050 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210386)

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

**S3-210752 Mirror Adding the security requirement with encBlockIndex in Rel17**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1051 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210387)

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

**S3-210793 Correction to service request process in OAuth 2.0 based authorization rel16**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1036 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, Hisilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210241)

**Decision:** The document was **revised to S3-210798**.

**S3-210794 Correction to service request process in OAuth 2.0 based authorization rel17**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1037 rev 1 Cat: A (Rel-17)  
  
 Source: Huawei, Hisilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210242)

**Decision:** The document was **revised to S3-210797**.

**S3-210797 Correction to service request process in OAuth 2.0 based authorization rel17**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1037 rev 2 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210794)

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

**S3-210798 Correction to service request process in OAuth 2.0 based authorization rel16**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1036 rev 2 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210793)

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

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

**S3-210151 AAnF checks AKMA service for UE and AF in clause 6.3**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0055 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210760**.

**S3-210152 AAnF selection in AF**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0056 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210761**.

**S3-210153 Add Application Key Get service in clause 7.1**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0057 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210762**.

**S3-210154 Kakma invalid and Kausf invalid in clause 6.2**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0058 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-210155 Resolution of EN on other parameter in clause 6.3**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0059 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-210156 the KAF lifetime expiration in clause 5.2**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0060 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210763**.

**S3-210157 Discussion paper on KAUSF invalid and KAKMA invalid**

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

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

**S3-210158 UDM notifies AAnF AKMA context removal**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0061 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

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

**S3-210253 Clarification on A-KID generation**

*Type: CR For: Approval  
 33.535 v17.0.0 CR-0062 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210739**.

**S3-210254 Clarification on AAnF Selection**

*Type: CR For: Approval  
 33.535 v17.0.0 CR-0063 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

**S3-210447 Network provides authorization to AF/UE for KAF key refresh**

*Type: CR For: Approval  
 33.535 v17.0.0 CR-0065 Cat: F (Rel-17)  
  
 Source: Samsung*

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

**S3-210489 Sending UE identifier to the AKMA AF**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0052 rev 1 Cat: F (Rel-17)  
  
 Source: Qualcomm Incorporated, China Mobile*

(Replaces S3-203191)

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

**S3-210496 UE Sending GPSI (if available) to the AF**

*Type: CR For: Approval  
 33.535 v17.0.0 CR-0067 Cat: B (Rel-17)  
  
 Source: Samsung*

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

**S3-210739 Clarification on A-KID generation**

*Type: CR For: Approval  
 33.535 v17.0.0 CR-0062 rev 1 Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-210253)

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

**S3-210760 AAnF checks AKMA service for UE and AF in clause 6.3**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0055 rev 1 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces S3-210151)

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

**S3-210761 AAnF selection in AF**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0056 rev 1 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces S3-210152)

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

**S3-210762 Add Application Key Get service in clause 7.1**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0057 rev 1 Cat: B (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces S3-210153)

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

**S3-210763 the KAF lifetime expiration in clause 5.2**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0060 rev 1 Cat: F (Rel-17)  
  
 Source: ZTE Corporation*

(Replaces S3-210156)

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

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

**S3-210017 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 **noted**.

**S3-210480 5G GUTI re-allocation**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1062 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210759**.

**S3-210481 5G CIoT K\_NG-RAN derivation**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1063 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated*

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

**S3-210759 5G GUTI re-allocation**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1062 rev 1 Cat: F (Rel-16)  
  
 Source: Qualcomm Incorporated, Huawei, Hisilicon*

(Replaces S3-210480)

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

**S3-210789 5G GUTI re-allocation**

*Type: CR For: Agreement  
 33.501 v17.0.0 CR-1077 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

**S3-210790 5G CIoT K\_NG-RAN derivation**

*Type: CR For: Agreement  
 33.501 v17.0.0 CR-1078 Cat: A (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

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

**S3-210342 Authentication method selection for N5CW**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1043 Cat: F (Rel-16)  
  
 Source: Ericsson,Lenovo, Motorola Mobility, Cablelabs,Samsung*

**Discussion:**

Overlaps with 453.

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

**S3-210345 Authentication method selection for N5CW**

*Type: CR For: Agreement  
 33.501 v17.0.0 CR-1044 Cat: A (Rel-17)  
  
 Source: Ericsson,Lenovo, Motorola Mobility, Cablelabs,Samsung*

**Discussion:**

Overlaps with 452.

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

**S3-210452 CR to correct figure 7A.2.4-1**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1058 Cat: A (Rel-17)  
  
 Source: Samsung*

**Discussion:**

Same change as in S3-210345.

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

**S3-210453 CR to correct figure 7A.2.4-1**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1059 Cat: F (Rel-16)  
  
 Source: Samsung*

**Discussion:**

Same change as in S3-210342.

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

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

**S3-210138 Discussion on NSSAA Editor note for sending S-NSSAI to the AAA-S.**

*Type: discussion For: Endorsement  
 Source: Nokia*

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

**S3-210139 CR to delete the EN (rel-16) in NSSAA clause**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1027 Cat: F (Rel-16)  
  
 Source: Nokia*

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

**S3-210140 CR to dete the NSSAA Editor Note (Rel-17)**

*Type: CR For: Approval  
 33.501 v17.0.0 CR-1028 Cat: A (Rel-17)  
  
 Source: Nokia*

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

**S3-210197 Discussion on SN-ID in NSSAA**

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

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

**S3-210198 Serving network ID in NSSAA**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1031 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-210199 validity peirod of NSSAA result**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1032 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-210243 Slice privacy protection in NSSAA related procedure**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1038 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

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

**S3-210027 Reply LS on the re-keying procedure for NR SL**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2010963*

**Decision:** The document was **replied to in S3-210738**.

**S3-210066 TS 33.536 - overall clean-up**

*Type: CR For: Approval  
 33.536 v16.2.0 CR-0022 Cat: D (Rel-16)  
  
 Source: LG Electronics Inc.*

**Decision:** The document was **revised to S3-210705**.

**S3-210135 Clarifications regarding Authentication procedure for V2X PC5 unicast link**

*Type: CR For: Approval  
 33.536 v16.2.0 CR-0023 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210804**.

**S3-210250 Clarification on key derivation**

*Type: CR For: Approval  
 33.536 v16.2.0 CR-0024 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210737**.

**S3-210251 Reply LS about the layer to provide security**

*Type: LS out For: Approval  
 to RAN2, CT1  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210738**.

**S3-210380 Clarification on a figure and the key activation**

*Type: CR For: Approval  
 33.535 v16.2.0 CR-0064 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

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

**S3-210705 TS 33.536 - overall clean-up**

*Type: CR For: Approval  
 33.536 v16.2.0 CR-0022 rev 1 Cat: F (Rel-16)  
  
 Source: LG Electronics Inc.*

(Replaces S3-210066)

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

**S3-210737 Clarification on key derivation**

*Type: CR For: Approval  
 33.536 v16.2.0 CR-0024 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-210250)

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

**S3-210738 Reply LS about the layer to provide security**

*Type: LS out For: Approval  
 to RAN2, CT1  
 Source: Huawei, HiSilicon*

(Replaces S3-210251)

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

**S3-210804 Clarifications regarding Authentication procedure for V2X PC5 unicast link**

*Type: CR For: Approval  
 33.536 v16.2.0 CR-0023 rev 1 Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-210135)

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

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

**S3-210127 Living document for TS 33.220: addition of UDM**

*Type: draftCR For: Approval  
 33.220 v17.0.0  
 Source: THALES*

**Abstract:**

Living document for TS 33.220: addition of UDM in architectural support

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

**S3-210128 Living document for TS 33.223: addition of UDM**

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

**Abstract:**

Living document for TS 33.223: addition of UDM

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

**S3-210519 Living document for TS 33.220: SBA support for Zh and Zn interfaces**

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

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

**S3-210520 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 **approved**.

**S3-210521 pCR to living document for TS 33.220: Support GBA in UDM**

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

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

**S3-210522 pCR to living document for TS 33.223: Support GBA in UDM**

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

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

**S3-210523 [DRAFT] LS on the SBA for GBA**

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

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

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

**S3-210297 Adding a new threat related with biding down attack in the threats**

*Type: CR For: Approval  
 33.926 v16.3.0 CR-0038 Cat: B (Rel-17)  
  
 Source: China Telecom, Huawei, HiSilicon*

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

**S3-210300 Resolving the ENs related with abort operation in the test case**

*Type: pCR For: Approval  
 33.226 v0.3.0  
 Source: China Telecom, Huawei, HiSilicon*

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

**S3-210325 Adding test case on the confidentiality configuration in P-CSCF**

*Type: pCR For: Approval  
 33.226 v0.3.0  
 Source: China Telecom, Huawei, HiSilicon*

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

**S3-210355 Assets and threats specific of encryption in network hiding in the I-CSCF**

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

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

**S3-210356 New test case on encryption in network hiding in the I-CSCF**

*Type: pCR For: Approval  
 33.226 v16.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210357 Assets and threats specific of network hiding in the IBCF**

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

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

**S3-210358 New test case on network hiding in the IBCF**

*Type: pCR For: Approval  
 33.226 v16.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210375 IMS SCAS: living doc for the threats**

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

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

**S3-210376 Resolving the ENs related with biding down attacker in the test case**

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

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

**S3-210377 Resolving the Ens related with biding down attack in the threats**

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

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

**S3-210399 IMS SCAS: Adding the assets and threats of the AS**

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

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

**S3-210400 Adding test cases on the authorization and privacy in AS**

*Type: pCR For: Approval  
 33.226 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210401 IMS SCAS: Adding the assets and threats of the MRFC**

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

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

**S3-210753 IMS SCAS: living doc for the threats**

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

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

**S3-210754 Draft TS 33.226 0.4.0**

*Type: draft TS For: Approval  
 33.226 v0.4.0  
 Source: Huawei, HiSilicon*

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

**S3-210765 Adding a new threat related with biding down attack in the threats**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: China Telecom, Huawei, HiSilicon*

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

**S3-210768 Adding a new threat related with biding down attack in the threats**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: China Telecom, Huawei, HiSilicon*

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

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

**S3-210234 Threat analysis related to RRCConnectionReestablsihment in CP CIoT 5GS Optimization**

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

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

**S3-210235 Draft CR on New Test Case on RRCConnectionReestablsihment in CP CIoT 5GS Optimization**

*Type: draftCR For: Approval  
 33.512 v16.4.0  
 Source: Huawei, HiSilicon*

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

**S3-210262 Threat to trigger condition on NSSAA procedure**

*Type: draftCR For: Approval  
 33.512 v16.4.0  
 Source: Huawei, HiSilicon*

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

**S3-210263 Living document for TS 33.511**

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

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

**S3-210264 Living document for TS 33.512**

*Type: draftCR For: Approval  
 33.512 v16.4.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210740**.

**S3-210265 Living document for TS 33.514**

*Type: draftCR For: Approval  
 33.514 v16.4.0  
 Source: Huawei, HiSilicon*

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

**S3-210266 Living document for TS 33.517**

*Type: draftCR For: Approval  
 33.517 v16.1.0  
 Source: Huawei, HiSilicon*

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

**S3-210267 Living document for TS 33.117**

*Type: draftCR For: Approval  
 33.117 v16.6.0  
 Source: Huawei, HiSilicon*

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

**S3-210268 Living document for TR 33.926**

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

**Decision:** The document was **revised to S3-210741**.

**S3-210348 Threats related to session establishment procedure**

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

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

**S3-210349 New test case on validation of S-NSSAIs in PDU session establishment request**

*Type: draftCR For: Approval  
 33.512 v16.4.0  
 Source: Huawei, Hisilicon*

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

**S3-210359 eSCAS:Add a new test case for GUTI allocation**

*Type: draftCR For: Approval  
 33.512 v16.4.0  
 Source: Huawei, Hisilicon*

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

**S3-210361 eSCAS:Add a new test case for NSSAA**

*Type: draftCR For: Approval  
 33.512 v16.4.0  
 Source: Huawei, Hisilicon*

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

**S3-210362 eSCAS: Updating the security threat to user privacy**

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

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

**S3-210363 eSCAS: Add a new threat on unauthorized slice access**

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

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

**S3-210740 Living document for TS 33.512**

*Type: draftCR For: Approval  
 33.512 v16.4.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210264)

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

**S3-210741 Living document for TR 33.926**

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

(Replaces S3-210268)

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

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

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

**S3-210236 Critical Assets for NWDAF**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, HiSilicon, China Mobile*

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

**S3-210237 Network Product Class Description for NWDAF**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, HiSilicon, China Mobile*

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

**S3-210276 Threat analysis on finding the right NF insances are serving this UE**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: Huawei, HiSilicon, China Mobile*

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

**S3-210323 Find the right NF instance are serving the UE**

*Type: pCR For: Approval  
 33.521 v0.2.0  
 Source: China Mobile, Huawei, HiSilicon*

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

**S3-210775 living document to TR 33.926 for NWDAF SCAS**

*Type: draftCR For: Approval  
 33.926 v16.3.0  
 Source: China Mobile Com. Corporation*

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

**S3-210776 TS 33.521 v0.3.0**

*Type: draft TS For: Approval  
 33.521 v0.3.0  
 Source: China Mobile Com. Corporation*

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

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

**S3-210221 Threat to send EAP-Identity Request by N3IWF**

*Type: CR For: (not specified)  
 33.926 v16.3.0 CR-0037 Cat: B (Rel-17)  
  
 Source: China Unicom*

**Decision:** The document was **revised to S3-210805**.

**S3-210805 Threat to send EAP-Identity Request by N3IWF**

*Type: CR For: -  
 33.926 v16.3.0 CR-0037 rev 1 Cat: B (Rel-17)  
  
 Source: China Unicom*

(Replaces S3-210221)

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

**S3-210222 Check whether the N3IWF sends the EAP-Identity Request message**

*Type: pCR For: (not specified)  
 33.520 v0.1.0  
 Source: China Unicom*

**Decision:** The document was **revised to S3-210802**.

**S3-210269 Threat analysis on the ability to create different child Sas**

*Type: pCR For: Approval  
 33.520 v0.1.0  
 Source: Huawei, HiSilicon, China Unicom*

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

**S3-210270 Check whether the N3IWF has the ability to create different child Sas**

*Type: pCR For: Approval  
 33.520 v0.1.0  
 Source: Huawei, HiSilicon, China Unicom*

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

**S3-210271 Threat analysis on mixing CP and UP into main SA**

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

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

**S3-210272 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**.

**S3-210777 TS 33.520 Security Assurance Specification for Non-3GPP InterWorking Function**

*Type: draft TS For: (not specified)  
 33.520 v0.2.0  
 Source: China Unicom*

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

**S3-210802 Check whether the N3IWF sends the EAP-Identity Request message**

*Type: pCR For: (not specified)  
 33.520 v0.1.0  
 Source: China Unicom*

(Replaces S3-210222)

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

**S3-210803 Threat to send EAP-Identity Request by N3IWF**

*Type: CR For: (not specified)  
 33.926 v16.3.0 CR-0040 Cat: B (Rel-17)  
  
 Source: China Unicom*

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

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

**S3-210159 New security functional requirement and related test case on validating of user data transported**

*Type: draftCR For: Agreement  
 33.513 v16.2.0  
 Source: ZTE Corporation*

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

**S3-210360 SCAS IPUPS: Add a new test**

*Type: draftCR For: Approval  
 33.513 v16.2.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210755**.

**S3-210755 SCAS IPUPS: Add a new test**

*Type: draftCR For: Approval  
 33.513 v16.2.0  
 Source: Huawei, Hisilicon,ZTE Corporation*

(Replaces S3-210360)

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

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

**S3-210273 Threat analysis on select AAA-P and AAA-S**

*Type: pCR For: Approval  
 33.326 v0.1.0  
 Source: Huawei, HiSilicon*

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

**S3-210274 NSSAAF route the S-NSSAI to the right place**

*Type: pCR For: Approval  
 33.326 v0.1.0  
 Source: Huawei, HiSilicon*

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

**S3-210744 Draft 33.326**

*Type: draft TS For: Approval  
 33.326 v0.2.0  
 Source: Huawei, HiSilicon*

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

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

**S3-210049 Limited service state for missioncritical services**

*Type: CR For: Agreement  
 33.180 v17.1.0 CR-0153 Cat: C (Rel-17)  
  
 Source: BDBOS*

**Abstract:**

CR to introduce Limited service state for mission critical services

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

**S3-210051 Discussion – R17 Group regroup and user regroup security**

*Type: discussion For: Information  
 33.180 v..  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

This paper describes a preconfigured group regroup and preconfigured user regroup security approach.

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

**S3-210052 [33.180] R17 Group regroup and user regroup security**

*Type: CR For: Agreement  
 33.180 v17.1.0 CR-0154 Cat: B (Rel-17)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Key management for group regroup with preconfigured group and user regroup with preconfigured group is needed.

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

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

**S3-210223 Draft CR on Clarification for UP integrity Mechanisms between the UE and the ng-eNB**

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

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

**S3-210224 Draft CR on Clarification for Handling for indication of UE supports UPIP**

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

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

**S3-210490 Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options**

*Type: draftCR For: Approval  
 33.501 v17.0.0  
 Source: Qualcomm Incorporated*

(Replaces S3-203511)

**Decision:** The document was **revised to S3-210701**.

**S3-210491 pCR to UP IP draft CR to TS 33.501**

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

**Decision:** The document was **revised to S3-210700**.

**S3-210529 Draft CR on algorithm selection**

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

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

**S3-210700 pCR to UP IP draft CR to TS 33.501**

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

(Replaces S3-210491)

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

**S3-210701 Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options**

*Type: draftCR For: Approval  
 33.501 v17.0.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210490)

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

**S3-210702 Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options**

*Type: CR For: Agreement  
 33.501 v17.0.0  
 Source: Qualcomm Incorporated*

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

**S3-210703 Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options**

*Type: CR For: Agreement  
 33.501 v17.0.0 CR-1073 Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

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

**S3-210064 5G architecture enhancements for BEST**

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

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

### 4.22 New work item proposals

**S3-210142 New WID for supporting NSWO in 5G**

*Type: WID new For: Approval  
 Source: ATT, Nokia, Nokia Shanghai Bell*

**Abstract:**

WID to support Non-seamless WLAN offload in 5G.

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

**S3-210211 New WID on 5GFBS**

*Type: WID new For: Approval  
 Source: Apple, AT&T, Deutsche Telekom, Charter Communication, China Unicom, NIST, CableLabs, Interdigital, Ericsson, Samsung, CAICT, CATT, Intel, vivo, MITRE, Philips*

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

**S3-210479 New WID on AKMA Ua protocol profiles**

*Type: WID new For: Agreement  
 Source: Qualcomm Incorporated*

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

**S3-210499 New WID on 3GPP profiles for cryptographic algorithms and security protocols**

*Type: WID new For: Agreement  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210781**.

**S3-210544 New WID on normative changes for User Plane Integrity Protection for LTE options**

*Type: WID new For: Agreement  
 Source: VODAFONE Group Plc*

**Decision:** The document was **revised to S3-210722**.

**S3-210722 New WID on normative changes for User Plane Integrity Protection for LTE options**

*Type: WID new For: Agreement  
 Source: VODAFONE Group Plc*

(Replaces S3-210544)

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

**S3-210781 New WID on 3GPP profiles for cryptographic algorithms and security protocols**

*Type: WID new For: Agreement  
 Source: Ericsson*

(Replaces S3-210499)

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

### 4.23 Other work areas (no release restrictions)

**S3-210472 Discussion on K\_AUSF handling**

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

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

**S3-210144 DISC Handling of latest Kasuf**

*Type: discussion For: Agreement  
 Source: NEC*

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

**S3-210146 Maintaining latest Kausf**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1030 Cat: F (Rel-16)  
  
 Source: NEC*

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

**S3-210005 LS on Storage of KAUSF**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-207764*

**Decision:** The document was **replied to in S3-210706**.

**S3-210459 LS on Reply LS on Storage of KAUSF from CT1**

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

**Decision:** The document was **revised to S3-210706**.

**S3-210460 Handling of KAUSF upon successful primary authentication**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1060 Cat: F (Rel-16)  
  
 Source: Samsung, Nokia, Nokia Shanghai Bell, Intel*

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

**S3-210477 Profiling the GBA TLS protocols for use with AKMA**

*Type: CR For: Agreement  
 33.535 v17.0.0 CR-0066 Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

**S3-210478 Adding references to AKMA profiles of Ua protocols**

*Type: CR For: Agreement  
 33.222 v16.1.0 CR-0053 Cat: B (Rel-17)  
  
 Source: Qualcomm Incorporated*

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

**S3-210030 LS on integrity and confidentiality protection of xcap-diff and pidf documents in MCPTT (TS 24.379)**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R5- 206273*

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

**S3-210053 [33.180] R14 RFC3830 reference correction**

*Type: CR For: Agreement  
 33.180 v14.8.0 CR-0155 Cat: F (Rel-14)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

This CR corrects the RFC3830 reference in 33.180 to match 33.179 which maintains backward compatibility.

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

**S3-210054 [33.180] R15 RFC3830 reference correction (mirror)**

*Type: CR For: Agreement  
 33.180 v15.8.0 CR-0156 Cat: A (Rel-15)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

This mirror CR corrects the RFC3830 reference in 33.180 to match 33.179 and maintains backward compatibility.

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

**S3-210055 [33.180] R16 RFC3830 reference correction (mirror)**

*Type: CR For: Agreement  
 33.180 v16.5.0 CR-0157 Cat: A (Rel-16)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

This mirror CR corrects the RFC3830 reference in 33.180 to match 33.179 and maintains backward compatibility.

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

**S3-210056 [33.180] R17 RFC3830 reference correction (mirror)**

*Type: CR For: Agreement  
 33.180 v17.1.0 CR-0158 Cat: A (Rel-17)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

This mirror CR corrects the RFC3830 reference in 33.180 to match 33.179 and maintains backward compatibility.

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

**S3-210057 [33.180] R14 XML encryption correction**

*Type: CR For: Agreement  
 33.180 v14.8.0 CR-0159 Cat: F (Rel-14)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Correct xmlenc note in clause 9.3.4.1.

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

**S3-210058 [33.180] R15 XML encryption correction (mirror)**

*Type: CR For: Agreement  
 33.180 v15.8.0 CR-0160 Cat: A (Rel-15)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Correct the xmlenc note in 9.3.4.1

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

**S3-210059 [33.180] R16 XML encryption correction (mirror)**

*Type: CR For: Agreement  
 33.180 v16.5.0 CR-0161 Cat: A (Rel-16)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Correct the xmlenc note in 9.3.4.1.

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

**S3-210060 [33.180] R17 XML encryption correction (mirror)**

*Type: CR For: Agreement  
 33.180 v17.1.0 CR-0162 Cat: A (Rel-17)  
  
 Source: Motorola Solutions Danmark A/S*

**Abstract:**

Correct the xmlenc note in 9.3.4.1.

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

**S3-210141 Authentication procedure during Xn handover procedure**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1029 Cat: F (Rel-16)  
  
 Source: NEC*

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

**S3-210073 Correct NAS uplink COUNT for KgNB/KeNB derivation**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-0962 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces S3-202947)

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

**S3-210279 Authentication procedure during Xn handover procedure**

*Type: CR For: Agreement  
 33.501 v17.0.0 CR-1039 Cat: A (Rel-17)  
  
 Source: NEC*

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

**S3-210294 Clarification on security protection in AMF reallocation(direct NAS reroute)**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1040 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210743**.

**S3-210326 Correct current uplink EPS NAS COUNT used at derivation of a mapped 5G security context**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1041 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

**Decision:** The document was **revised to S3-210787**.

**S3-210415 Correcting notation used for inter-AMF mobility key derivation**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-0963 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces S3-202948)

**Decision:** The document was **revised to S3-210782**.

**S3-210004 AMF transparency for SOR**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C1-207736*

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

**S3-210025 LS on Changes to SoR Delivery Mechanism**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: C4-205696*

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

**S3-210367 LS reply on changes to SoR delivery mechanims**

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

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

**S3-210351 LS on loop registration in CAG**

*Type: LS out For: Approval  
 to SA2, CT1  
 Source: Huawei, Hisilicon*

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

**S3-210350 DP on loop registration in CAG**

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

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

**S3-210449 Discussion on MitM attack**

*Type: discussion For: Discussion  
 33.501 v..  
 Source: Samsung*

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

**S3-210450 CR for identification of MitM attack**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-1057 Cat: F (Rel-16)  
  
 Source: Samsung*

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

**S3-210445 Correction to FC values in range for future use in 3GPP specifications**

*Type: CR For: Agreement  
 33.501 v17.0.0 CR-1056 Cat: F (Rel-17)  
  
 Source: Samsung*

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

**S3-210451 CR for correction in SEAL**

*Type: CR For: Agreement  
 33.434 v16.1.0 CR-0003 Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **revised to S3-210707**.

**S3-210706 LS on Reply LS on Storage of KAUSF from CT1**

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

(Replaces S3-210459)

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

**S3-210707 CR for correction in SEAL**

*Type: CR For: Agreement  
 33.434 v16.1.0 CR-0003 rev 1 Cat: F (Rel-16)  
  
 Source: Samsung*

(Replaces S3-210451)

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

**S3-210743 Clarification on security protection in AMF reallocation(direct NAS reroute)**

*Type: CR For: Approval  
 33.501 v16.5.0 CR-1040 rev 1 Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

(Replaces S3-210294)

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

**S3-210782 Correcting notation used for inter-AMF mobility key derivation**

*Type: CR For: Agreement  
 33.501 v16.5.0 CR-0963 rev 2 Cat: F (Rel-16)  
  
 Source: MediaTek Inc.*

(Replaces S3-210415)

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

**S3-210785 Correcting notation used for inter-AMF mobility key derivation**

*Type: CR For: (not specified)  
 33.501 v17.0.0 CR-1074 Cat: A (Rel-17)  
  
 Source: MediaTek Inc. / Marko*

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

**S3-210786 Correct NAS uplink COUNT for KgNB/KeNB derivation**

*Type: CR For: (not specified)  
 33.501 v17.0.0 CR-1075 Cat: A (Rel-17)  
  
 Source: MediaTek Inc. / Marko*

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

**S3-210787 Correct current uplink EPS NAS COUNT used at derivation of a mapped 5G security context**

*Type: CR For: (not specified)  
 33.501 v16.5.0 CR-1041 rev 1 Cat: F (Rel-16)  
  
 Source: MediaTek Inc. / Marko*

(Replaces S3-210326)

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

**S3-210788 Correct current uplink EPS NAS COUNT used at derivation of a mapped 5G security context**

*Type: CR For: (not specified)  
 33.501 v17.0.0 CR-1076 Cat: A (Rel-17)  
  
 Source: MediaTek Inc. / Marko*

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

**S3-210799 Mirror\_Clarification on security protection in AMF reallocation**

*Type: CR For: (not specified)  
 33.501 v17.0.0 CR-1079 Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

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

## 5 Studies areas

### 5.1 Study on 5G security enhancement against false base stations

**S3-210050 Update to solution #17 (6.17.2) of TR 33.809**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: Deutsche Telekom AG*

**Abstract:**

Clarification that the solution#17 intends to ADD the whole ResumeRequest and keeps the existing VarResumeMac-Input part.

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

**S3-210092 pCR Signing solutions and cell selection in TR 33.809**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: VODAFONE Group Plc*

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

**S3-210133 New solution FBS KI#2**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: Philips International B.V.*

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

**S3-210541 New annex of TR 33.809 – analysis of KI#2 and recommendations**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: CableLabs, Deutsche Telekom AG, InterDigital*

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

**S3-210131 Additions to FBS Solution #23**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-210783**.

**S3-210132 Additions to FBS Solution #24**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: Philips International B.V., CableLabs, Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210784**.

**S3-210193 Detection of MitM FBS**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: Huawei, HiSilicon*

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

**S3-210018 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 **replied to in S3-210756**.

**S3-210194 Reply LS on FBS detection**

*Type: LS out For: Approval  
 to RAN2, cc RAN3  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210756**.

**S3-210488 Reply LS on False Base Station Detection**

*Type: LS out For: (not specified)  
 to RAN2, cc RAN3  
 Source: Qualcomm Incorporated*

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

**S3-210518 pCR to 33.809 - addition of evaluation for solution 8**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: VODAFONE Group Plc*

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

**S3-210143 Enhanced description for KI#7**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: Nokia, Nokia Shanghai Bell, Philips*

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

**S3-210212 5GFBS-Edotorial change After EditHelp**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: Apple*

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

**S3-210756 Reply LS on FBS detection**

*Type: LS out For: Approval  
 to RAN2, cc RAN3  
 Source: Huawei, HiSilicon*

(Replaces S3-210194)

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

**S3-210778 draft TR of TR 33.809-5GFBS**

*Type: draft TR For: Approval  
 33.809 v0.13.0  
 Source: Apple*

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

**S3-210783 Clarifications on Cryptographic CRC in MAC to avoid MitM relay nodes**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: Philips International B.V.*

(Replaces S3-210131)

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

**S3-210784 Clarifications in Solution #24**

*Type: pCR For: Approval  
 33.809 v0.12.1  
 Source: Philips International B.V., CableLabs, Nokia, Nokia Shanghai Bell*

(Replaces S3-210132)

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

### 5.2 Study on SECAM and SCAS for 3GPP virtualized network products

**S3-210160 Update the clause 5.2.5.5.7**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: ZTE Corporation, China Mobile*

**Decision:** The document was **revised to S3-210764**.

**S3-210303 Clarifying the scope**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

**Decision:** The document was **revised to S3-210770**.

**S3-210304 Clarifying for types of virtualised network product class**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

**Decision:** The document was **revised to S3-210771**.

**S3-210305 Clarifying for Generic virtualised network product model class description**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

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

**S3-210306 Clarifying for Generic assets and threats for GVNP of type 1**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

**Decision:** The document was **revised to S3-210772**.

**S3-210307 Clarifying for Generic assets and threats for GVNP of type 2 and type 3**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

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

**S3-210308 Adding comparison**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

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

**S3-210309 Modifying test case in clause 5.2.5.5.7.2**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

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

**S3-210310 clarifying the content in clause 5.2.5.6.6.1 and clause 5.2.5.6.7**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

**Decision:** The document was **revised to S3-210773**.

**S3-210311 Clarifying for the security requirements and test cases in clause 5.2.5.7.7.1 and 5.2.5.7.7.2**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

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

**S3-210312 Adding hardening requirements for GVNP of type 3**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

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

**S3-210313 Adding vendor development and product lifecycle processes and test laboratory accreditation into Clause 6**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

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

**S3-210314 Adding evaluation and SCAS instantiation into clause 7**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

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

**S3-210315 new proposal for way forward v2**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

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

**S3-210316 editorial correction on TR33818-coversheet**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

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

**S3-210764 Update the clause 5.2.5.5.7**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: ZTE Corporation, China Mobile*

(Replaces S3-210160)

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

**S3-210770 Clarifying the scope**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

(Replaces S3-210303)

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

**S3-210771 Clarifying for types of virtualised network product class**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

(Replaces S3-210304)

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

**S3-210772 Clarifying for Generic assets and threats for GVNP of type 1**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

(Replaces S3-210306)

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

**S3-210773 clarifying the content in clause 5.2.5.6.6.1 and clause 5.2.5.6.7**

*Type: pCR For: Approval  
 33.818 v0.9.2  
 Source: China Mobile*

(Replaces S3-210310)

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

**S3-210774 TR 33.818 v0.a.0**

*Type: draft TR For: Approval  
 33.818 v0.10.0  
 Source: China Mobile Com. Corporation*

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

### 5.3 Study on User Plane Integrity Protection

**S3-210225 New Solution for UPIP for EPS**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210655**.

**S3-210433 Update to Solution #24: Interworking handover from 5GS to EPS**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210588**.

**S3-210434 Update to Solution #21: Interworking handover from EPS to 5GS**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210589**.

**S3-210435 Update to Solution #22: S1 handover**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210590**.

**S3-210436 Update to Solution #23: X2 handover**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210591**.

**S3-210437 Discussion paper on UP IP policy in EPS**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

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

**S3-210438 Conclusion on UE connects to EPC via eUTRA**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210592**.

**S3-210474 Addressing the EN in solution #18**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210632**.

**S3-210475 Addressing some ENs in solution #20**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Qualcomm Incorporated*

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

**S3-210476 Proposed partial conclusion to key issues #1 and #2**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Qualcomm Incorporated*

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

**S3-210497 pCR to TR 33.853 – New Best Effort solution for EPS using UE Radio Access capabilities**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

**Decision:** The document was **revised to S3-210556**.

**S3-210500 pCR to TR 33.853 - Updates to Solution#13 - MME and IoDT test impacts**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

**Decision:** The document was **revised to S3-210558**.

**S3-210502 pCR to TR 33.853 - Updates to Solution#14 – optional use of security mode command**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

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

**S3-210503 pCR to TR 33.853 - Updates to Solution#15 – 5GC control concept**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

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

**S3-210504 pCR to TR 33.853 - Updates to Solution#18 – small corrections**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

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

**S3-210513 pCR to TR 33.853 - Updates to Solution #20 – small corrections**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

**Decision:** The document was **revised to S3-210559**.

**S3-210514 pCR to TR 33.853 - Updates to Solution #21 EPS to 5GS handover– evaluation**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

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

**S3-210516 pCR to TR 33.853 – New Solution #AC Handover from EPS to 5GS using unmodified R15/16 messages and procedures**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

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

**S3-210536 Presentation of Specification/Report to TSG: TR33.853, Version <2.0.0>**

*Type: TS or TR cover For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

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

**S3-210540 pCR to TR 33.853 – Conclusion on UE connects to EPC via eUTRA**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

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

**S3-210542 [DRAFT] LS on User Plane Integrity Protection for eUTRA connected to EPC**

*Type: LS out For: Approval  
 to RAN2, RAN3, CT1, SA2  
 Source: VODAFONE Group Plc*

**Decision:** The document was **revised to S3-210563**.

**S3-210556 pCR to TR 33.853 – New Best Effort solution for EPS using UE Radio Access capabilities**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

(Replaces S3-210497)

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

**S3-210558 pCR to TR 33.853 - Updates to Solution#13 - MME and IoDT test impacts**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

(Replaces S3-210500)

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

**S3-210559 pCR to TR 33.853 - Updates to Solution #20 – small corrections**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: VODAFONE Group Plc*

(Replaces S3-210513)

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

**S3-210563 LS on User Plane Integrity Protection for eUTRA connected to EPC**

*Type: LS out For: Approval  
 to RAN2, RAN3, CT4, SA2, cc CT1  
 Source: VODAFONE Group Plc*

(Replaces S3-210542)

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

**S3-210568 TR33.853 1.4.0**

*Type: draft TR For: Approval  
 33.853 v1.4.0  
 Source: VODAFONE Group Plc*

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

**S3-210588 Update to Solution #24: Interworking handover from 5GS to EPS**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

(Replaces S3-210433)

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

**S3-210589 Update to Solution #21: Interworking handover from EPS to 5GS**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

(Replaces S3-210434)

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

**S3-210590 Update to Solution #22: S1 handover**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

(Replaces S3-210435)

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

**S3-210591 Update to Solution #23: X2 handover**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

(Replaces S3-210436)

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

**S3-210592 Conclusion on UE connects to EPC via eUTRA**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Ericsson*

(Replaces S3-210438)

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

**S3-210632 Addressing the EN in solution #18**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Qualcomm Incorporated, Vodafone*

(Replaces S3-210474)

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

**S3-210655 New Solution for UPIP for EPS**

*Type: pCR For: Approval  
 33.853 v1.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210225)

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

### 5.4 Study on Security Impacts of Virtualisation

**S3-210087 TR 33.848 Jan 2021 Refresh**

*Type: pCR For: Agreement  
 33.848 v0.5.0  
 Source: BT plc*

**Abstract:**

Refresh of 33.848 to align it with state of the art virtualisation approaches as of Jan 2021. Intended to provide a new baseline from which study can be completed within R17.

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

**S3-210734 TR 33.848 v0.6.0**

*Type: draft TR For: Information  
 33.848 v0.6.0  
 Source: BT plc*

**Abstract:**

TR 33.848 v0.6.0

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

### 5.5 Study on authentication enhancements in 5GS

**S3-210129 TR 33.846: conclusion for key issue #2.1**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: THALES*

**Abstract:**

TR 33.846: conclusion for key issue #2.1

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

**S3-210164 Update solution#2.1 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210767**.

**S3-210327 Linkability by distinguishing MAC failure and synchronization failure**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210332 Evaluation of solution 2.3**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210148 SUCI Linkability attack**

*Type: pCR For: Agreement  
 33.846 v0.9.0  
 Source: NEC*

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

**S3-210163 Solution of Mitigation against the SUPI replay attack**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210769**.

**S3-210321 Solution to address the Key issue #2.2 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: China Mobile*

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

**S3-210328 Update KI on SUPI guessing**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210130 TR 33.846: conclusion for key issue #4.1**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: THALES*

**Abstract:**

TR 33.846: conclusion for key issue #4.1

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

**S3-210161 Conclusion for Key Issue #4.1**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

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

**S3-210162 New solution for key issue# 4.1 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210766**.

**S3-210165 Update the evaluation for solution# 4.1**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

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

**S3-210166 Update the evaluation for solution# 4.2**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

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

**S3-210167 Update the evaluation for solution# 4.3**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

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

**S3-210168 Update the evaluation for solution# 4.4**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

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

**S3-210169 Update the key issue 4.1**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

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

**S3-210331 EN resolution on SQNms protection**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210333 EN related note to solution 4.4**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210337 AUTS SQNMS solution for EPS**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210338 AUTS SQNMS solution for 5GS**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210282 new solution to mitigate supi guessing and suci replay attack**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210742**.

**S3-210022 Reply to LS on Resynchronisations**

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

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

**S3-210336 SQNms protection by concealment in ME**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-203330)

**Decision:** The document was **revised to S3-210733**.

**S3-210329 KI on linkability by SUCI**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210731**.

**S3-210330 Assuring SUCI generation by legitimiate SUPI owner**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210501 Home network triggered reauthentication**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: NTT DOCOMO INC.*

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

**S3-210334 Evaluation criterias**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210335 Editorial changes to TR**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210732**.

**S3-210322 Discussion on enlarging the length of truncated MACs for 5G systems**

*Type: pCR For: Discussion  
 33.846 v0.9.0  
 Source: China Mobile*

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

**S3-210517 TR 33.846: comparison of candidate solutions**

*Type: pCR For: Discussion  
 33.846 v0.9.0  
 Source: THALES*

**Abstract:**

TR 33.846: comparison of candidate solutions

**Decision:** The document was **revised to S3-210779**.

**S3-210731 KI on linkability by SUCI**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-210329)

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

**S3-210732 Editorial changes to TR**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-210335)

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

**S3-210733 SQNms protection by concealment in ME**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-210336)

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

**S3-210742 new solution to mitigate supi guessing and suci replay attack**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210282)

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

**S3-210758 Draft TR 33.846 v0.10.0 Study on authentication enhancements in the 5G System (5GS)**

*Type: draft TR For: Approval  
 33.846 v0.10.0  
 Source: Ericsson Japan K.K.*

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

**S3-210766 New solution for key issue# 4.1 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

(Replaces S3-210162)

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

**S3-210767 Update solution#2.1 in TR 33.846**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

(Replaces S3-210164)

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

**S3-210769 Solution of Mitigation against the SUPI replay attack**

*Type: pCR For: Approval  
 33.846 v0.9.0  
 Source: ZTE Corporation*

(Replaces S3-210163)

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

**S3-210779 TR 33.846: comparison of candidate solutions**

*Type: pCR For: Discussion  
 33.846 v0.9.0  
 Source: THALES*

(Replaces S3-210517)

**Abstract:**

TR 33.846: comparison of candidate solutions

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

### 5.6 Study on storage and transport of 5GC security parameters for ARPF authentication

**S3-210037 Update of clause 4.2**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

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

**S3-210038 New KI: Protection of TUAK TOPc value during storage in UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

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

**S3-210039 New KI: Protection of TUAK TOPc value during transfer out of UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

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

**S3-210040 New Solution: Protection of SQN during storage in UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-210709**.

**S3-210041 New Solution: Protection of SQN during transfer out of UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

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

**S3-210042 New Solution: Protection of TUAK TOPc value during storage in UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-210712**.

**S3-210043 New Solution: Protection of TUAK TOPc value during transfer out of UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-210713**.

**S3-210044 Updated Solution #8: Encrypted transfer of OPc between UDR and UDM/ARPF**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-210714**.

**S3-210045 Updated Solution #9: Encrypted transfer of OP between UDR and UDM/ARPF**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-210716**.

**S3-210046 Updated Solution #10: Encrypted strorage of OPc in UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-210717**.

**S3-210047 Updated Solution #11: Encrypted storage of OP in UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-210718**.

**S3-210076 Evaluation of solution 6**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

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

**S3-210077 Evaluation of solution 7**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

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

**S3-210078 Evaluation of solution 8**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

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

**S3-210079 Evaluation of solution 9**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

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

**S3-210080 Evaluation of solution 10**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

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

**S3-210081 Evaluation of solution 11**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

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

**S3-210082 New solution for KI#8**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

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

**S3-210083 New solution for KI#9**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

**Decision:** The document was **revised to S3-210715**.

**S3-210084 Some conclusions for TR 33.845**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

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

**S3-210085 Editorial corrections**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

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

**S3-210464 Conclusions for TR 33.845**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: Ericsson*

**Abstract:**

This contribution 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 **revised to S3-210708**.

**S3-210468 removal of Editor’s Notes**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: Ericsson*

**Abstract:**

This contribution proposes the removal of some Editor’s Note’s in TR 33.845.

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

**S3-210708 Conclusions for TR 33.845**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: Ericsson*

(Replaces S3-210464)

**Abstract:**

This contribution 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 **approved**.

**S3-210709 New Solution: Protection of SQN during storage in UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

(Replaces S3-210040)

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

**S3-210710 New solution for KI#9**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

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

**S3-210711 New Solution: Protection of TUAK TOPc value during storage in UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

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

**S3-210712 New Solution: Protection of TUAK TOPc value during storage in UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

(Replaces S3-210042)

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

**S3-210713 New Solution: Protection of TUAK TOPc value during transfer out of UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

(Replaces S3-210043)

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

**S3-210714 Updated Solution #8: Encrypted transfer of OPc between UDR and UDM/ARPF**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

(Replaces S3-210044)

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

**S3-210715 New solution for KI#9**

*Type: pCR For: (not specified)  
 33.845 v0.6.0  
 Source: NCSC*

(Replaces S3-210083)

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

**S3-210716 Updated Solution #9: Encrypted transfer of OP between UDR and UDM/ARPF**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

(Replaces S3-210045)

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

**S3-210717 Updated Solution #10: Encrypted strorage of OPc in UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

(Replaces S3-210046)

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

**S3-210718 Updated Solution #11: Encrypted storage of OP in UDR**

*Type: pCR For: Approval  
 33.845 v0.6.0  
 Source: KPN N.V.*

(Replaces S3-210047)

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

**S3-210720 Cover sheet for TR 33.845 - presentation for information**

*Type: TS or TR cover For: Agreement  
 33.845 v0.6.0  
 Source: VODAFONE Group Plc*

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

**S3-210721 TR 33.845 v0.7.0**

*Type: draft TR For: Approval  
 33.845 v0.7.0  
 Source: VODAFONE Group Plc*

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

### 5.7 Study on security aspects of Unmanned Aerial Systems

**S3-210093 TR 33.854 Update for solution#5**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: InterDigital, Europe, Ltd.*

**Abstract:**

Update with complements for UAV and UAV-C pairing authorization support

**Decision:** The document was **revised to S3-210593**.

**S3-210201 Remove EN1-align SA2 procedure**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210202 Remove EN2-align AF defined by SA2**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210203 Remove EN3-revocation**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210615**.

**S3-210204 Remove EN1-exchange ID with USS**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210616**.

**S3-210205 Remove EN2- revocation**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210617**.

**S3-210443 Evaluation update of solution 7**

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

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

**S3-210466 Update to solution #2**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210605**.

**S3-210469 Some clarifications to solution #10**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210628**.

**S3-210470 Proposed solution for pairing authorisation in 5G**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210629**.

**S3-210471 Proposed solution for UAV authorisation when connected to 4G**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210630**.

**S3-210537 Update to Solution #7**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR proposes to update Solution #7 in TR 33.854 based on SA2 conclusions from TR 23.754.

**Decision:** The document was **revised to S3-210687**.

**S3-210538 Solution on UAV and UAV-C Pairing Authorization**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR proposes a Solution to Key Issue #2 in TR 33.854.

**Decision:** The document was **revised to S3-210688**.

**S3-210094 Solution for UAV location privacy**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: InterDigital, Europe, Ltd.*

**Abstract:**

New solution to ensure that only authorized entities can obtain UAV location information from the 3GPP system.

**Decision:** The document was **revised to S3-210594**.

**S3-210200 Addressing EN in KI#7: scope of C2 Security**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210535 Updates to Key Issue #7**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This pCR proposes to update KI#7 in TR 33.854 based on SA2 conclusions from TR 23.754.

**Decision:** The document was **revised to S3-210686**.

**S3-210444 DHIES encryption to avoid UAV spoofing**

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

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

**S3-210442 Mapping table**

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

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

**S3-210593 TR 33.854 Update for solution#5**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-210093)

**Abstract:**

Update with complements for UAV and UAV-C pairing authorization support

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

**S3-210594 Solution for UAV location privacy**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: InterDigital, Europe, Ltd.*

(Replaces S3-210094)

**Abstract:**

New solution to ensure that only authorized entities can obtain UAV location information from the 3GPP system.

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

**S3-210605 Update to solution #2**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Ericsson*

(Replaces S3-210466)

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

**S3-210615 Remove EN3-revocation**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210203)

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

**S3-210616 Remove EN1-exchange ID with USS**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210204)

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

**S3-210617 Remove EN2- revocation**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210205)

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

**S3-210628 Some clarifications to solution #10**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210469)

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

**S3-210629 Proposed solution for pairing authorisation in 5G**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210470)

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

**S3-210630 Proposed solution for UAV authorisation when connected to 4G**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210471)

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

**S3-210686 Updates to Key Issue #7**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Lenovo, Motorola Mobility, Interdigital, Huawei, HiSilicon*

(Replaces S3-210535)

**Abstract:**

This pCR proposes to update KI#7 in TR 33.854 based on SA2 conclusions from TR 23.754.

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

**S3-210687 Update to Solution #7**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-210537)

**Abstract:**

This pCR proposes to update Solution #7 in TR 33.854 based on SA2 conclusions from TR 23.754.

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

**S3-210688 Solution on UAV and UAV-C Pairing Authorization**

*Type: pCR For: Approval  
 33.854 v0.3.0  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-210538)

**Abstract:**

This pCR proposes a Solution to Key Issue #2 in TR 33.854.

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

**S3-210695 TR 33.854 v0.4.0**

*Type: draft TR For: Approval  
 33.854 v0.4.0  
 Source: Qualcomm Incoporated*

(Replaces S3-203467)

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

### 5.8 Study on Security Aspects of Enhancement of Support for Edge Computing in 5GC

**S3-210170 AMF selection in multiple NAS connections in solution#6.7 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: ZTE Corporation*

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

**S3-210171 LBO roaming scenario should be supported in solution#6.7 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210633**.

**S3-210181 Add new solution in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: CATT*

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

**S3-210183 Remove the EN in solution #5**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: CATT*

**Decision:** The document was **revised to S3-210677**.

**S3-210185 Remove EN in Solution #6 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: CATT*

**Decision:** The document was **revised to S3-210678**.

**S3-210190 Updates to solution 4: evaluation**

*Type: pCR For: (not specified)  
 33.839 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

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

**S3-210191 Updates to solution 4**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

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

**S3-210389 EC: Resolving the En and adding evalution of solution #16**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210648**.

**S3-210430 Update of Solution #7**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This document proposes an update of Solution #7.

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

**S3-210458 Updates to solution#7 to identify the appropriate AMF by the NEF**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-210575**.

**S3-210011 Reply LS on IP address to GPSI translation**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2009339*

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

**S3-210465 Update to solution #17**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210604**.

**S3-210505 Evaluation of Solution #7**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This document proposes an evaluation of Solution #7.

**Decision:** The document was **revised to S3-210682**.

**S3-210180 Updates to solution 18: Removal EN related to EEC ID**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-210623**.

**S3-210182 Updates to solution 18: Removal EN related to identification of serving AMF**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-210624**.

**S3-210186 Updates to solution 18: Removal EN related to roaming**

*Type: pCR For: (not specified)  
 33.839 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

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

**S3-210192 Updates to solution 12: Removing EN**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-210625**.

**S3-210393 EC: skeleton of clause 7 and conclusion of KI #4**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210651**.

**S3-210388 EC: Editorial changes and Resolving the ENs of solution #13**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

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

**S3-210172 Update the key issue#7 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210634**.

**S3-210173 Update the solution#14 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210635**.

**S3-210390 EC: Evaluation of solution #20 and conclusion of KI #8**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210649**.

**S3-210216 MEC-Evaluation on solution#1**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Apple*

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

**S3-210391 EC: Evaluation of solution #21**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

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

**S3-210217 MEC-Modification on solution#22**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Apple*

**Decision:** The document was **revised to S3-210692**.

**S3-210392 EC: Resolving the Editor’s notes and evaluation of solution #22**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210650**.

**S3-210184 Key issue on authorization revocation in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: CATT*

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

**S3-210365 EC: New key issue on N4 protection for UPF in customer network**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

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

**S3-210366 EC: New solution to th ekey issue on N4 security**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

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

**S3-210575 Updates to solution#7 to identify the appropriate AMF by the NEF**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Samsung, Lenovo and Motorola Mobility*

(Replaces S3-210458)

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

**S3-210604 Update to solution #17**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Ericsson*

(Replaces S3-210465)

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

**S3-210623 Updates to solution 18: Removal EN related to EEC ID**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-210180)

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

**S3-210624 Updates to solution 18: Removal EN related to identification of serving AMF**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-210182)

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

**S3-210625 Updates to solution 12: Removing EN**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-210192)

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

**S3-210633 LBO roaming scenario should be supported in solution#6.7 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: ZTE Corporation*

(Replaces S3-210171)

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

**S3-210634 Update the key issue#7 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: ZTE Corporation*

(Replaces S3-210172)

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

**S3-210635 Update the solution#14 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: ZTE Corporation*

(Replaces S3-210173)

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

**S3-210648 EC: Resolving the En and adding evalution of solution #16**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210389)

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

**S3-210649 EC: Evaluation of solution #20 and conclusion of KI #8**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210390)

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

**S3-210650 EC: Resolving the Editor’s notes and evaluation of solution #22**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210392)

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

**S3-210651 EC: skeleton of clause 7 and conclusion of KI #4**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210393)

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

**S3-210654 Draft TR33.839 0.4.0**

*Type: draft TR For: Approval  
 33.839 v0.4.0  
 Source: Huawei, Hisilicon*

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

**S3-210677 Remove the EN in solution #5**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: CATT*

(Replaces S3-210183)

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

**S3-210678 Remove EN in Solution #6 in TR 33.839**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: CATT*

(Replaces S3-210185)

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

**S3-210682 Evaluation of Solution #7**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Lenovo, Motorola Mobility*

(Replaces S3-210505)

**Abstract:**

This document proposes an evaluation of Solution #7.

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

**S3-210691 MEC-Evaluation on solution#1**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Apple*

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

**S3-210692 MEC-Modification on solution#22**

*Type: pCR For: Approval  
 33.839 v0.3.0  
 Source: Apple*

(Replaces S3-210217)

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

### 5.9 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS

**S3-210020 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**.

**S3-210067 TR 33.847 - Remove ENs in KI1**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: LG Electronics Inc.*

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

**S3-210070 TR 33.847 - New KI on security protection misalignment in L3 UE2NW relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: LG Electronics Inc.*

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

**S3-210086 TR 33.847 Update for KI #4**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: InterDigital, Inc.*

**Abstract:**

It is proposed to approve changes aiming to add requirements to support secondary authentication/authorization and network slice authorization for inclusion in TR 33.847. In addition, this PCR makes minor editorial changes in the existing text of KI#4.

**Decision:** The document was **revised to S3-210149**.

**S3-210149 TR 33.847 Update for KI #4**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: InterDigital, Inc., LG Electronics*

(Replaces S3-210086)

**Abstract:**

This pCR replaces previously submitted S3-210086 and proposes a modification to existing KI #4 aiming to add requirements for support of secondary authentication/authorization and network slice authorization. In addition, this PCR makes minor editorial c

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

**S3-210246 Propose to resolve EN in KI#16**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210247 Propose to resolve ENs in the clause of KI detail of KI#12**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210255 Update Key issue #11**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210482 New Key Issue on security policy handling for 5G Prose services**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Qualcomm Incorporated, Huawei, Hisilicon, Ericsson*

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

**S3-210068 TR 33.847 - Resolve ENs in Sol13**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: LG Electronics Inc.*

**Decision:** The document was **revised to S3-210636**.

**S3-210069 TR 33.847 - Evaluation of Sol13**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: LG Electronics Inc.*

**Decision:** The document was **revised to S3-210637**.

**S3-210071 Updated Solution #22: Representation of identities during broadcast**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-210555**.

**S3-210072 Updated Solution #23: Initial key with validity time**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: KPN N.V.*

**Decision:** The document was **revised to S3-210557**.

**S3-210122 TR 33.847 Update for solution #10**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: InterDigital, Inc.*

**Abstract:**

The contribution proposes to address the following ENs.

**Decision:** The document was **revised to S3-210598**.

**S3-210123 Solution for NSSAA procedure for Remote UE with L3 UE-to-Network relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a solution to address the following Key Issue #4.

**Decision:** The document was **revised to S3-210601**.

**S3-210124 Solution for secondary authentication Remote UE with L3 UE-to-Network relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: InterDigital, Inc.*

**Abstract:**

The solution describes how to support a secondary authentication of a Remote UE via a L3 UE-to-Network relay.

**Decision:** The document was **revised to S3-210600**.

**S3-210125 TR 33.847 Update for solution #12**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: InterDigital, Inc.*

**Abstract:**

The contribution proposes to address ENs in Solution #12.

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

**S3-210174 Update to Solution #3**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: ZTE Corporation*

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

**S3-210175 Update to Solution #4**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: ZTE Corporation*

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

**S3-210206 Remove EN1:security of group management**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210618**.

**S3-210207 Remove EN2: Time synchronization**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210619**.

**S3-210208 Adding Evalaution**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210244 Address Editor's Note in solution 15**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210659**.

**S3-210245 A solution to protect PDU session related parameters for L2 relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210660**.

**S3-210248 Propose to mitigate policy confliction using match report**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210662**.

**S3-210249 Propose to mitigate policy conflication using restricted discovery**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210663**.

**S3-210252 Update evaluation to Solution#7**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210256 Evaluation on Solution#3**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210664**.

**S3-210257 Evaluation on Solution#4**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210665**.

**S3-210258 Evaluation on Solution#5**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210259 Evaluation on solution #11**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210261 Address Editor's Note in solution 14**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210680**.

**S3-210281 pCR to TR33.847- New solution on L3 UE-to-Network Relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: CATT*

**Decision:** The document was **revised to S3-210674**.

**S3-210296 pCR to TR33.847- New solution on UE-to-Network Relay based on primary authentication**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: CATT*

**Decision:** The document was **revised to S3-210675**.

**S3-210299 Evaluation on solution #14**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210394 ProSe: Resolving the ENs of solution #16**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210652**.

**S3-210439 ProSe: Update to solution #21**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210585**.

**S3-210440 ProSe: New solution for the use of authorization token in UE-to-UE relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210586**.

**S3-210441 ProSe: Update to solution #6**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210587**.

**S3-210448 [ProSe] pCR for resolving ENs in solution#1**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-210577**.

**S3-210483 Solution 18 EN resolution**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210608**.

**S3-210484 Solution 19 EN resolution**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Qualcomm Incorporated*

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

**S3-210485 Solution 20 EN resolution**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210609**.

**S3-210486 Update of solution #18 to add authorization for the UE-to-Network relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210607**.

**S3-210543 Solution to mitigate privacy issues of relay service codes and PDU parameters for L3 UE-to-NW relays**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-210597**.

**S3-210260 Conclusion on PC3 protection**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210555 Updated Solution #22: Representation of identities during broadcast**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: KPN N.V.*

(Replaces S3-210071)

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

**S3-210557 Updated Solution #23: Initial key with validity time**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: KPN N.V.*

(Replaces S3-210072)

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

**S3-210577 [ProSe] pCR for resolving ENs in solution#1**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Samsung*

(Replaces S3-210448)

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

**S3-210585 ProSe: Update to solution #21**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Ericsson*

(Replaces S3-210439)

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

**S3-210586 ProSe: New solution for the use of authorization token in UE-to-UE relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Ericsson*

(Replaces S3-210440)

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

**S3-210587 ProSe: Update to solution #6**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Ericsson*

(Replaces S3-210441)

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

**S3-210597 Solution to mitigate privacy issues of relay service codes and PDU parameters for L3 UE-to-NW relays**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Philips International B.V.*

(Replaces S3-210543)

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

**S3-210598 TR 33.847 Update for solution #10**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: InterDigital, Inc.*

(Replaces S3-210122)

**Abstract:**

Revision of S3-210122-r1 approved during SA3#102-e.

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

**S3-210599 Solution for NSSAA procedure for Remote UE with L3 UE-to-Network relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: InterDigital, Inc.*

**Abstract:**

Revision of S3-210123-r2 approved during SA3#102-e.

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

**S3-210600 Solution for secondary authentication Remote UE with L3 UE-to-Network relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: InterDigital, Inc.*

(Replaces S3-210124)

**Abstract:**

Revision of S3-210124-r2 approved during SA3#102-e.

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

**S3-210601 Solution for NSSAA procedure for Remote UE with L3 UE-to-Network relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: InterDigital, Inc.*

(Replaces S3-210123)

**Abstract:**

Revision of S3-210123-r3 approved during SA3#102-e.

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

**S3-210607 Update of solution #18 to add authorization for the UE-to-Network relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210486)

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

**S3-210608 Solution 18 EN resolution**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210483)

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

**S3-210609 Solution 20 EN resolution**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210485)

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

**S3-210618 Remove EN1:security of group management**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210206)

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

**S3-210619 Remove EN2: Time synchronization**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210207)

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

**S3-210636 TR 33.847 - Resolve ENs in Sol13**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: LG Electronics Inc.*

(Replaces S3-210068)

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

**S3-210637 TR 33.847 - Evaluation of Sol13**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: LG Electronics Inc.*

(Replaces S3-210069)

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

**S3-210652 ProSe: Resolving the ENs of solution #16**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210394)

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

**S3-210659 Address Editor's Note in solution 15**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210244)

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

**S3-210660 A solution to protect PDU session related parameters for L2 relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210245)

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

**S3-210661 Propose to resolve ENs in the clause of KI detail of KI#12**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210662 Mitigate the conflict between policies using match report**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210248)

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

**S3-210663 Mitigate the conflict between policies using restricted discovery**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210249)

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

**S3-210664 Evaluation on Solution#3**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210256)

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

**S3-210665 Evaluation on Solution#4**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210257)

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

**S3-210674 pCR to TR33.847- New solution on L3 UE-to-Network Relay**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: CATT*

(Replaces S3-210281)

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

**S3-210675 pCR to TR33.847- New solution on UE-to-Network Relay based on primary authentication**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: CATT*

(Replaces S3-210296)

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

**S3-210676 Draft TR 33.847 v0.4.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS**

*Type: draft TR For: Approval  
 33.847 v0.4.0  
 Source: CATT*

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

**S3-210680 Address Editor's Note in solution 14**

*Type: pCR For: Approval  
 33.847 v0.3.0  
 Source: Huawei Technologies (Korea)*

(Replaces S3-210261)

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

### 5.10 Study on security for enhanced support of Industrial IoT

**S3-210291 Add evaluation to solution 1**

*Type: pCR For: Approval  
 33.851 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210668**.

**S3-210292 Add evaluation to solution 3**

*Type: pCR For: Approval  
 33.851 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210669**.

**S3-210354 New requirement on key issue #2 of TR 33.851**

*Type: pCR For: Approval  
 33.851 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210506 TR editorials**

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

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

**S3-210507 Mapping table**

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

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

**S3-210508 Annex on Security considerations for integration with TSN**

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

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

**S3-210509 KI details Attacks based on asymmetric channel delay**

*Type: pCR For: Approval  
 33.851 v0.3.0  
 Source: Nokia, Nokia Shanghai Bell, Deutsche Telekom*

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

**S3-210510 Authorization of incoming time synchronization messages based on policies**

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

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

**S3-210511 Evaluation to solution 1**

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

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

**S3-210512 Evaluation to solution 3**

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

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

**S3-210668 Add evaluation to solution 1**

*Type: pCR For: Approval  
 33.851 v0.3.0  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210291)

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

**S3-210669 Add evaluation to solution 3**

*Type: pCR For: Approval  
 33.851 v0.3.0  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell*

(Replaces S3-210292)

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

**S3-210698 TR\_33.851-040\_IIoT\_Sec**

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

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

### 5.11 Study on Security Aspects of Enhancements for 5G Multicast-Broadcast Services

**S3-210290 Update the terms in TR 33.850**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210369 5MBS: Adding overview**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, Hisilicon*

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

**S3-210036 New Key Issue: MBS Location Privacy**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: MITRE*

(Replaces S3-210034)

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

**S3-210288 New solution for traffic protection in service layer**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210667**.

**S3-210215 MBS-Modification on solution#1**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Apple*

**Decision:** The document was **revised to S3-210693**.

**S3-210286 Addressing the EN on solution1**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210289 New solution to support the UE mobility in MBS**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210463 Addition to support key update in Solution 1**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Philips International B.V.*

**Decision:** The document was **revised to S3-210690**.

**S3-210487 Security for MBS traffic during handover**

*Type: pCR For: (not specified)  
 33.850 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210610**.

**S3-210134 Additions to MBS Solution #2**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Philips International B.V.*

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

**S3-210287 Addressing the EN on solution2**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210672**.

**S3-210368 5MBS: Updats to solution #3**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210641**.

**S3-210370 5MBS: Updates to solution #4**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210642**.

**S3-210371 5MBS: Updates to solution #5**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210643**.

**S3-210285 Conclusion on key issue 4**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210034 New Key Issue: MBS Location Privacy**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: MITRE*

**Decision:** The document was **revised to S3-210036**.

**S3-210035 New Key Issue: MBS Location Privacy**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: MITRE*

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

**S3-210610 Security for MBS traffic during handover**

*Type: pCR For: (not specified)  
 33.850 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210487)

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

**S3-210640 Draft TR 33.850**

*Type: pCR For: Approval  
 33.850 v0.4.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210670**.

**S3-210641 5MBS: Updats to solution #3**

*Type: pCR For: Agreement  
 33.850 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210368)

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

**S3-210642 5MBS: Updates to solution #4**

*Type: pCR For: Agreement  
 33.850 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210370)

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

**S3-210643 5MBS: Updates to solution #5**

*Type: pCR For: Agreement  
 33.850 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210371)

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

**S3-210667 New solution for traffic protection in service layer**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210288)

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

**S3-210670 Draft TR 33.850**

*Type: draft TR For: Approval  
 33.850 v0.4.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210640)

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

**S3-210672 Addressing the EN on solution2**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210287)

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

**S3-210690 Addition to support key update in Solution 1**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Philips International B.V.*

(Replaces S3-210463)

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

**S3-210693 MBS-Modification on solution#1**

*Type: pCR For: Approval  
 33.850 v0.3.0  
 Source: Apple*

(Replaces S3-210215)

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

### 5.12 Study on enhanced security support for Non-Public Networks

**S3-210009 Reply LS on security issue for on-boarding and remote provisioning from SA3**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2009132*

**Decision:** The document was **replied to in S3-210800**.

**S3-210137 [DRAFT] Reply-LS on security issue for on-boarding and remote provisioning.**

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

**Decision:** The document was **revised to S3-210800**.

**S3-210230 Reply LS on Security issue for On-boarding and Remote Provisioning**

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

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

**S3-210343 draft LS on Feedback on function supporting primary authentication and authorization of SNPN UEs that use credentials from the AAA Server**

*Type: LS out For: Approval  
 to SA2, cc CT1, CT3, CT4  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210560**.

**S3-210344 Resolving EN on SUPI privacy in solution #1**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210561**.

**S3-210406 LS on Feedback on Key Issue #4 "UE onboarding and remote provisioning"**

*Type: LS out For: Approval  
 to SA2, cc CT1, CT3, CT4  
 Source: Ericsson*

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

**S3-210232 Solution Update for Solution #5**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210658**.

**S3-210346 High-level conclusions for KI#1 (Credentials owned by an external entity)**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

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

**S3-210233 System Impact and Evaluation for solution #5**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Huawei, HiSilicon*

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

**S3-210372 NPN: New solution to key issue #1**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Huawei, Hisilicon*

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

**S3-210340 High-level conclusions for KI#1 (Credentials owned by an external entity)**

*Type: discussion For: Discussion  
 33.857 v..  
 Source: Ericsson*

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

**S3-210431 Update of solution #6**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This document proposes updates to solution #6.

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

**S3-210341 Resolving EN in KI#1**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

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

**S3-210432 Evaluation of solution #6**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Lenovo, Motorola Mobility*

**Abstract:**

This document proposes and evaluation to solution #6.

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

**S3-210493 Addressing the EN in solution #4**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210613**.

**S3-210494 pCR: Security architecture conclusion for KI #1**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210614**.

**S3-210402 Adding details to provisioning key issue**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson, China Mobile, Huawei, InterDigital, Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell, Philips, Samsung, ZTE*

**Decision:** The document was **revised to S3-210704**.

**S3-210318 Solution to provisioning of PNI-NPN credentials**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: China Mobile*

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

**S3-210403 Use case for KI#3 (Supporting IMS in SNPNs) not yet covered by existing specifications**

*Type: discussion For: Endorsement  
 Source: Ericsson*

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

**S3-210404 New Solution to KI#3: Authentication to IMS Core using credentials generated with AKMA**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

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

**S3-210405 New Solution to KI#3: Authentication to IMS Core using credentials generated from the KAUSF**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

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

**S3-210136 Solution for protecting the privacy of the UE identity.**

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

**Decision:** The document was **revised to S3-210801**.

**S3-210176 Evaluation of Solution #8**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210638**.

**S3-210177 Evaluation of Solution #9**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: ZTE Corporation*

**Decision:** The document was **revised to S3-210639**.

**S3-210220 New solution on UE onboarding for SNPN with the interaction between PS and DCS**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Alibaba Group*

**Decision:** The document was **revised to S3-210602**.

**S3-210231 New Solution on Authentication for UE onboarding for SNPN**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210657**.

**S3-210277 Solution to UE onboarding for non-public networks**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-210621**.

**S3-210280 Solution to UE onboarding for non-public networks using PA and SA**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-210622**.

**S3-210407 Resolving SUPI privacy EN in solution #10**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210583**.

**S3-210408 Resolving prerequisite EN in solution #10**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

**Decision:** The document was **revised to S3-210584**.

**S3-210409 Resolving indication EN in solution #10**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

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

**S3-210410 Resolving CP provisioning EN in solution #10**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

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

**S3-210495 Addressing some ENs in solution #11**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210612**.

**S3-210218 New Key Issue on UE preferred SNPN information update**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Alibaba Group*

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

**S3-210219 New solution on preferred SNPN information update**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Alibaba Group*

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

**S3-210352 New KI on service authorization for SNPNs**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210644**.

**S3-210353 New solution on service authorization for SNPNs**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Huawei, Hisilicon*

**Decision:** The document was **revised to S3-210645**.

**S3-210126 TR 33.857: scope**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: THALES*

**Abstract:**

Addition of scope for TR 33.857

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

**S3-210560 LS on Feedback on function supporting primary authentication and authorization of SNPN UEs that use credentials from the AAA Server**

*Type: LS out For: Approval  
 to SA2, cc CT1, CT3, CT4  
 Source: Ericsson*

(Replaces S3-210343)

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

**S3-210561 Resolving EN on SUPI privacy in solution #1**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

(Replaces S3-210344)

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

**S3-210583 Resolving SUPI privacy EN in solution #10**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

(Replaces S3-210407)

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

**S3-210584 Resolving prerequisite EN in solution #10**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson*

(Replaces S3-210408)

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

**S3-210602 New solution on UE onboarding for SNPN with the interaction between PS and DCS**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Alibaba Group*

(Replaces S3-210220)

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

**S3-210612 Addressing some ENs in solution #11**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210495)

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

**S3-210613 Addressing the EN in solution #4**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210493)

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

**S3-210614 pCR: Security architecture conclusion for KI #1**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Qualcomm Incorporated*

(Replaces S3-210494)

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

**S3-210621 Solution to UE onboarding for non-public networks**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-210277)

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

**S3-210622 Solution to UE onboarding for non-public networks using PA and SA**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-210280)

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

**S3-210638 Evaluation of Solution #8**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: ZTE Corporation*

(Replaces S3-210176)

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

**S3-210639 Evaluation of Solution #9**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: ZTE Corporation*

(Replaces S3-210177)

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

**S3-210644 New KI on service authorization for SNPNs**

*Type: pCR For: Agreement  
 33.857 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210352)

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

**S3-210645 New solution on service authorization for SNPNs**

*Type: pCR For: Agreement  
 33.857 v0.3.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210353)

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

**S3-210657 New Solution on Authentication for UE onboarding for SNPN**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210231)

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

**S3-210658 Solution Update for Solution #5**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210232)

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

**S3-210704 Adding details to provisioning key issue**

*Type: pCR For: Approval  
 33.857 v0.3.0  
 Source: Ericsson, China Mobile, Huawei, InterDigital, Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell, Philips, Samsung, ZTE*

(Replaces S3-210402)

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

**S3-210780 draft TR 33.857 v0.4.0**

*Type: draft TR For: Approval  
 33.857 v0.4.0  
 Source: Ericsson*

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

**S3-210800 Reply-LS on security issue for on-boarding and remote provisioning.**

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

(Replaces S3-210137)

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

**S3-210801 Solution for protecting the privacy of the UE identity.**

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

(Replaces S3-210136)

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

### 5.13 Study on security aspects of the Disaggregated gNB Architecture

**S3-210061 Discussion on Conclusion to TR 33.840**

*Type: discussion For: Endorsement  
 33.840 v..  
 Source: Futurewei*

**Abstract:**

This is a discussion paper on conclusion of TR 33.840 with two proposals for endorsement

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

**S3-210062 Conclusion to TR 33.840**

*Type: pCR For: Approval  
 33.840 v0.2.0  
 Source: Futurewei*

**Abstract:**

This contribution proposes a conclusion to TR 33.840.

**Decision:** The document was **revised to S3-210595**.

**S3-210063 LS on conclusion of security study of disaggregated gNB architecture**

*Type: LS out For: Approval  
 to RAN3  
 Source: Futurewei*

**Abstract:**

This contribution is a proposed LS to RAN3 on conclusion of security study of disaggregated gNB architecture

**Decision:** The document was **revised to S3-210596**.

**S3-210278 Conclusions to TR33.840**

*Type: pCR For: Approval  
 33.840 v0.2.0  
 Source: China Telecommunications*

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

**S3-210595 Conclusion to TR 33.840**

*Type: pCR For: Approval  
 33.840 v0.2.0  
 Source: Futurewei*

(Replaces S3-210062)

**Abstract:**

This contribution proposes a conclusion to TR 33.840.

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

**S3-210596 LS on conclusion of security study of disaggregated gNB architecture**

*Type: LS out For: Approval  
 to RAN3  
 Source: Futurewei*

(Replaces S3-210063)

**Abstract:**

This contribution is a proposed LS to RAN3 on conclusion of security study of disaggregated gNB architecture

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

**S3-210606 TR 33.840 v1.0.0**

*Type: pCR For: Approval  
 33.840 v0.2.0  
 Source: China Telecomunication Corp.*

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

### 5.14 Study on User Consent for 3GPP services

**S3-210088 Discussion on user versus subscriber in relation to the U3C study**

*Type: discussion For: Endorsement  
 33.867 v..  
 Source: Futurewei*

**Abstract:**

This contribution discusses user versus subscriber in relation to the U3C study.

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

**S3-210089 KI on U3C User Identification**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: Futurewei*

**Abstract:**

This contribution proposes a new KI on user identification based on discussion in S3-210088

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

**S3-210117 TR 33.867 – New KI – Confidentiality Protection**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new Key Issue for TR 33.867.

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

**S3-210118 TR 33.867 – New KI – User Authentication**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new Key Issue for TR 33.867.

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

**S3-210119 TR 33.867 – New KI – Replay Protection**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new Key Issue for TR 33.867.

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

**S3-210120 TR 33.867 – New KI – Integrity Protection**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new Key Issue for TR 33.867.

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

**S3-210121 TR 33.867 – New KI – Non-Repudiation**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: InterDigital, Inc.*

**Abstract:**

This contribution proposes a new Key Issue for TR 33.867.

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

**S3-210187 Add new key issue for user consent**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: CATT*

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

**S3-210324 New Use Case for eNA**

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

**Decision:** The document was **revised to S3-210603**.

**S3-210226 New Use Case for MEC**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: Huawei, HiSilicon, Samsung*

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

**S3-210227 Add Terms for UC3S**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-210228 Analysis for UC3S**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210656**.

**S3-210275 New skeleton to TR 33867**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-210028 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**.

**S3-210026 Reply LS on the user consent for trace reporting**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R2-2010894*

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

**S3-210301 Reply LS on propagation of user consent related information during Xn inter-PLMN handover**

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

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

**S3-210603 New Use Case for eNA**

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

(Replaces S3-210324)

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

**S3-210656 Analysis for UC3S**

*Type: pCR For: Approval  
 33.867 v0.2.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210228)

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

**S3-210671 Draft TR 33.867**

*Type: draft TR For: (not specified)  
 33.867 v0.3.0  
 Source: Huawei,Hisilicon*

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

### 5.15 Study on security aspects of the 5GMSG Service

**S3-210319 Authentication and Authorization between 5GMSGS Client and MSGin5G server based on AKMA**

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

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

**S3-210320 Overview of MSGin5G Service**

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

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

**S3-210454 Update to KI#4 in TR 33.862**

*Type: pCR For: Approval  
 33.862 v0.2.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-210578**.

**S3-210455 Authentication and authorization for MSGin5G UE**

*Type: pCR For: Approval  
 33.862 v0.2.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-210579**.

**S3-210456 Authentication and authorization for legacy UE**

*Type: pCR For: Approval  
 33.862 v0.2.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-210580**.

**S3-210457 Authentication and authorization for Non-3GPP UE**

*Type: pCR For: Approval  
 33.862 v0.2.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-210582**.

**S3-210578 Update to KI#4 in TR 33.862**

*Type: pCR For: Approval  
 33.862 v0.2.0  
 Source: Samsung*

(Replaces S3-210454)

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

**S3-210579 Authentication and authorization for MSGin5G UE**

*Type: pCR For: Approval  
 33.862 v0.2.0  
 Source: Samsung*

(Replaces S3-210455)

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

**S3-210580 Authentication and authorization for legacy UE**

*Type: pCR For: Approval  
 33.862 v0.2.0  
 Source: Samsung*

(Replaces S3-210456)

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

**S3-210582 Authentication and authorization for Non-3GPP UE**

*Type: pCR For: Approval  
 33.862 v0.2.0  
 Source: Samsung*

(Replaces S3-210457)

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

**S3-210673 draft TR 33.862 0.3.0**

*Type: draft TR For: Approval  
 33.862 v0.3.0  
 Source: china mobile*

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

### 5.16 Study on security aspects of enablers for Network Automation (eNA) for the 5G system (5GS) Phase 2

**S3-210105 TR 33866-020\_update on formats and typos**

*Type: pCR For: Approval  
 33.866 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell, China Mobile*

**Decision:** The document was **revised to S3-210569**.

**S3-210106 Abbreviations.doc**

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

**Decision:** The document was **revised to S3-210570**.

**S3-210188 Add references in TR 33.866**

*Type: pCR For: Approval  
 33.866 v0.2.0  
 Source: CATT*

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

**S3-210012 Reply-LS on user consent requirements for analytics**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S2-2009383*

**Decision:** The document was **replied to in S3-210689**.

**S3-210021 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 **replied to in S3-210611**.

**S3-210032 Reply on method for collection of data from the UE**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: S4-201584*

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

**S3-210492 Reply LS method for collection of data from the UE**

*Type: LS out For: Approval  
 to SA2, cc SA4  
 Source: Qualcomm Incorporated*

**Decision:** The document was **revised to S3-210611**.

**S3-210112 KI on UE data collection protection**

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

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

**S3-210113 Threats and requirements to KI on UE data collection protection**

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

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

**S3-210114 Solution on UE data collection protection.docx**

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

**Decision:** The document was **revised to S3-210581**.

**S3-210115 Requirements to KI on Processing of tampered data**

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

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

**S3-210116 KI on Authorization of consumers for data access via DCCF.doc**

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

**Decision:** The document was **revised to S3-210571**.

**S3-210189 Add new key issue in TR 33.866**

*Type: pCR For: Approval  
 33.866 v0.2.0  
 Source: CATT*

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

**S3-210446 [eNA]Updates to KI #1.1**

*Type: pCR For: Approval  
 33.866 v0.2.0  
 Source: Samsung*

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

**S3-210498 Key issue on security of data via Messaging Framework**

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

**Decision:** The document was **revised to S3-210679**.

**S3-210109 KI details on Anomalous NF behaviour detection by NWDAF**

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

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

**S3-210110 Threats on KI Anomalous NF behavior detection by NWDAF**

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

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

**S3-210111 Requirements on KI Anomalous NF behavior detection by NWDAF**

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

**Decision:** The document was **revised to S3-210572**.

**S3-210229 New Solution for Network Framework for DDoS Attack**

*Type: pCR For: Approval  
 33.866 v0.2.0  
 Source: Huawei, HiSilicon*

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

**S3-210317 Solution to botnet terminal detection**

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

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

**S3-210419 Analytics for MitM Attack Detection**

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

**Abstract:**

This document proposes analytics for MitM Attack Detection.

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

**S3-210107 KI on protection of data in transfer**

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

**Decision:** The document was **revised to S3-210573**.

**S3-210108 Usage of current SBA mechanisms to protect data in transfer**

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

**Decision:** The document was **revised to S3-210574**.

**S3-210569 TR 33866-020\_update on formats and typos**

*Type: pCR For: Approval  
 33.866 v0.2.0  
 Source: Nokia, Nokia Shanghai Bell, China Mobile*

(Replaces S3-210105)

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

**S3-210570 Abbreviations.doc**

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

(Replaces S3-210106)

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

**S3-210571 KI on Authorization of consumers for data access via DCCF.doc**

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

(Replaces S3-210116)

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

**S3-210572 Requirements on KI Anomalous NF behavior detection by NWDAF**

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

(Replaces S3-210111)

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

**S3-210573 KI on protection of data in transfer**

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

(Replaces S3-210107)

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

**S3-210574 Usage of current SBA mechanisms to protect data in transfer**

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

(Replaces S3-210108)

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

**S3-210581 Solution on UE data collection protection.docx**

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

(Replaces S3-210114)

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

**S3-210611 Reply LS method for collection of data from the UE**

*Type: LS out For: Approval  
 to SA2, cc SA4  
 Source: Qualcomm Incorporated*

(Replaces S3-210492)

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

**S3-210679 Key issue on security of data via Messaging Framework**

*Type: pCR For: Approval  
 33.866 v0.2.0  
 Source: Ericsson, CATT*

(Replaces S3-210498)

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

**S3-210681 draft TR 33.866 0.3.0**

*Type: draft TR For: Approval  
 33.866 v0.3.0  
 Source: china mobile*

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

**S3-210689 Reply-LS on user consent requirements for analytics**

*Type: LS out For: Approval  
 to SA2  
 Source: NTT DOCOMO INC.*

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

### 5.17 Study on the security of AMF re-allocation

**S3-210525 Discussion paper on the shared network entity assumptions for the AMF re-allocation security study**

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

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

**S3-210526 Shared network entity assumptions for the purpose of AMF re-allocation**

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

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

**S3-210531 Resolving EN in Clause 4.3 Architecture and Security Assumptions**

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

**Abstract:**

This pCR proposes to resolve an EN in TR 33.864 Clause 4.3 Architecture and Security Assumptions

**Decision:** The document was **revised to S3-210683**.

**S3-210473 Update of solution #1 in TR 33.864**

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

**Decision:** The document was **revised to S3-210631**.

**S3-210524 AMF reallocation: Update to solution #2**

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

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

**S3-210373 AMFReal: Updates to solution #3**

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

**Decision:** The document was **revised to S3-210646**.

**S3-210150 AMF re-allocation Solution#4**

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

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

**S3-210533 Update to Solution#4 on enabling security during AMF reallocation via RAN**

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

**Abstract:**

This pCR proposes to update solution#4 in TR 33.864

**Decision:** The document was **revised to S3-210684**.

**S3-210178 New solution on security of AMF re-allocation using Registration Reject message**

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

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

**S3-210179 New solution on security of AMF re-allocation using RRC Release message**

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

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

**S3-210461 pCR: AMF re-allocation by re-directing UE to new AMF**

*Type: pCR For: Approval  
 33.864 v0.2.0  
 Source: Samsung*

**Decision:** The document was **revised to S3-210576**.

**S3-210527 New solution for NAS re-route via RAN and the use of a well-connected network function**

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

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

**S3-210528 New solution for AMF re-allocation using a well-connected network function**

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

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

**S3-210534 Solution to ensure system availability for indirect AMF reallocation**

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

**Abstract:**

This pCR proposes to a new solution to Key Issue#1 in TR 33.864

**Decision:** The document was **revised to S3-210685**.

**S3-210374 AMFReal: Updates to TR 33.864**

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

**Decision:** The document was **revised to S3-210647**.

**S3-210576 pCR: AMF re-allocation by re-directing UE to new AMF**

*Type: pCR For: Approval  
 33.864 v0.2.0  
 Source: Samsung*

(Replaces S3-210461)

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

**S3-210620 Draft TR 33.864 v0.3.0 Study on the security of Access and Mobility Management Function (AMF) re-allocation**

*Type: draft TR For: Approval  
 33.864 v0.3.0  
 Source: Ericsson Japan K.K.*

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

**S3-210631 Update of solution #1 in TR 33.864**

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

(Replaces S3-210473)

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

**S3-210646 AMFReal: Updates to solution #3**

*Type: pCR For: Agreement  
 33.864 v0.2.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210373)

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

**S3-210647 AMFReal: Updates to TR 33.864**

*Type: pCR For: Agreement  
 33.864 v0.2.0  
 Source: Huawei, Hisilicon*

(Replaces S3-210374)

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

**S3-210683 Resolving EN in Clause 4.3 Architecture and Security Assumptions**

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

(Replaces S3-210531)

**Abstract:**

This pCR proposes to resolve an EN in TR 33.864 Clause 4.3 Architecture and Security Assumptions

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

**S3-210684 Update to Solution#4 on enabling security during AMF reallocation via RAN**

*Type: pCR For: Approval  
 33.864 v0.2.0  
 Source: Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell*

(Replaces S3-210533)

**Abstract:**

This pCR proposes to update solution#4 in TR 33.864

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

**S3-210685 Solution to ensure system availability for indirect AMF reallocation**

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

(Replaces S3-210534)

**Abstract:**

This pCR proposes to a new solution to Key Issue#1 in TR 33.864

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

### 5.18 Study on Security for NR Integrated Access and Backhaul

**S3-210283 F1 interface security for IAB in NR-DC mode**

*Type: pCR For: Approval  
 33.824 v0.7.0  
 Source: Huawei, HiSilicon*

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

**S3-210284 updating the scope in TR33.824**

*Type: pCR For: Approval  
 33.824 v0.7.0  
 Source: Huawei, HiSilicon*

**Decision:** The document was **revised to S3-210666**.

**S3-210666 updating the scope in TR33.824**

*Type: pCR For: Approval  
 33.824 v0.7.0  
 Source: Huawei, HiSilicon*

(Replaces S3-210284)

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

**S3-210696 IAB draft TR 33.824 v 0.8.0**

*Type: draft TR For: (not specified)  
 33.824 v0.8.0  
 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

**S3-210029 Reply LS on System support for Multi-USIM devices**

*Type: LS in For: (not specified)  
 Original outgoing LS: -, to -, cc -  
 Source: R3-207207*

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

**S3-210145 Key Issue on privacy issues relating to Paging Cause exposure**

*Type: other For: Approval  
 Source: Nokia, Nokia Shangahi Bell, Samsung*

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

**S3-210147 Secure Busy indication**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210209 Security Solution for Busy Indication using NAS signaling**

*Type: other For: Approval  
 Source: Intel Corporation (UK) Ltd*

**Decision:** The document was **revised to S3-210626**.

**S3-210210 Updates to key issue 2**

*Type: other For: Approval  
 Source: Intel Corporation (UK) Ltd*

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

**S3-210213 MUSIM-key issue on BUSY indication**

*Type: pCR For: Approval  
 33.873 v0.0.0  
 Source: Apple*

**Decision:** The document was **revised to S3-210694**.

**S3-210214 MUSIM-Solution to protect BUSY indication**

*Type: pCR For: Approval  
 33.873 v0.0.0  
 Source: Apple*

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

**S3-210418 New key issue for Paging Cause protection**

*Type: pCR For: Approval  
 33.873 v0.0.0  
 Source: Huawei, HiSilicon*

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

**S3-210462 Key Issue on Authorization for MUSIM optimizations**

*Type: pCR For: Approval  
 33.873 v0.0.0  
 Source: Samsung*

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

**S3-210626 Security Solution for Busy Indication using NAS signaling**

*Type: other For: Approval  
 Source: Intel Corporation (UK) Ltd*

(Replaces S3-210209)

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

**S3-210627 draft TR 33.873 Study on the security of the system enablers for devices having multiple Universal Subscriber Identity Modules 0.2**

*Type: draft TR For: Approval  
 33.873 v0.2.0  
 Source: Intel China Ltd.*

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

**S3-210694 MUSIM-key issue on BUSY indication**

*Type: pCR For: Approval  
 33.873 v0.0.0  
 Source: Apple*

(Replaces S3-210213)

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

### 5.20 Study on enhanced Security Aspects of the 5G Service Based Architecture

**S3-210414 New KI: Roaming case for token-based authorization in indirect communication**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Ericsson*

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

**S3-210416 KI on Verification of UE in subscription and notification in the delegated "Subscribe-Notify" scenarios**

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

**Decision:** The document was **revised to S3-210653**.

**S3-210417 KI on Verification of UE in subscription and notification in the non-delegated "Subscribe-Notify" scenarios**

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

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

**S3-210420 Skeleton of TR eSBA SEC**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210421 Introduction**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210562**.

**S3-210422 Scope**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210423 Authentication of NRF and NFp in indirect communication**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210564**.

**S3-210424 End-to-end authentication in roaming case**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210425 SCP deployment models**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210565**.

**S3-210426 Verification of URI in subscription and notification**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210427 Dynamic authorization between SCPs or between NF and SCP**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210566**.

**S3-210428 End-to-End Critical HTTP headers and body parts integrity protection**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **revised to S3-210567**.

**S3-210429 NRF service management**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

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

**S3-210562 Introduction**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-210421)

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

**S3-210564 Authentication of NRF and NFp in indirect communication**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell, CableLabs, Mavenir*

(Replaces S3-210423)

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

**S3-210565 SCP deployment models**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-210425)

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

**S3-210566 Dynamic authorization between SCPs or between NF and SCP**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell*

(Replaces S3-210427)

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

**S3-210567 End-to-End Critical HTTP headers and body parts integrity protection**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Nokia, Nokia Shanghai Bell, Mavenir, CablLabs*

(Replaces S3-210428)

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

**S3-210653 KI on Verification of UE in subscription and notification in the delegated "Subscribe-Notify" scenarios**

*Type: pCR For: Approval  
 33.875 v0.0.0  
 Source: Huawei, Hisilicon,Nokia, Nokia Shanghai Bell*

(Replaces S3-210416)

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

**S3-210697 TR 33875-010 FS\_eSBA\_SEC**

*Type: draft TR For: (not specified)  
 33.875 v0.1.0  
 Source: Nokia, Nokia Shanghai Bell*

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

### 5.21 New study item proposals

**S3-210195 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, NEC*

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

**S3-210196 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, NEC*

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

**S3-210295 UC3S\_SID\_revision**

*Type: SID revised For: Approval  
 Source: Huawei, HiSilicon*

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

**S3-210298 New SID on security aspects on PAP/CHAP protocols in 5GS**

*Type: SID new For: Approval  
 Source: China Telecom, Huawei, HiSilicon*

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

**S3-210539 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, NEC*

**Decision:** The document was **revised to S3-210757**.

**S3-210757 R17 SID on enhanced security for Phase 2 network slicing**

*Type: SID new For: Approval  
 Source: Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT, China Unicom, China Mobile, InterDigital, NEC, Telecom Italia*

(Replaces S3-210539)

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

### 5.22 Other study areas (no release restrictions)

## 6 CVD and research

## 7 Any Other Business

**S3-210553 SA3 meeting calendar**

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

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

**S3-210554 Draft agenda for SA3 102bis-e**

*Type: agenda For: Discussion  
 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 |
| S3-210000 | Agenda | SA WG3 Chair | approved | - | - |
| S3-210001 | Report from SA3#101e meeting | MCC | approved | - | - |
| S3-210002 | Process for SA3#102e meeting | SA WG3 Chair | noted | - | - |
| S3-210003 | Report from last SA | SA WG3 Chair | noted | - | - |
| S3-210004 | AMF transparency for SOR | C1-207736 | postponed | - | - |
| S3-210005 | LS on Storage of KAUSF | C1-207764 | replied to | - | - |
| S3-210006 | User location identification from Carrier Aggregation secondary cell activation messages | GSMA FSAG | postponed | - | - |
| S3-210007 | LS on broadcasting gNB ID length in system information block | R3-207226 | noted | - | - |
| S3-210008 | Reply LS on MuDe functionality | S1-204380 | noted | - | - |
| S3-210009 | Reply LS on security issue for on-boarding and remote provisioning from SA3 | S2-2009132 | replied to | - | - |
| S3-210010 | LS Response on Support of L2TP in PFCP | S2-2009331 | noted | - | - |
| S3-210011 | Reply LS on IP address to GPSI translation | S2-2009339 | postponed | - | - |
| S3-210012 | Reply-LS on user consent requirements for analytics | S2-2009383 | replied to | - | - |
| S3-210013 | Independent evaluation of SNOW V | ETSI SAGE | noted | - | - |
| S3-210014 | 256-bit algorithms based on SNOW 3G or SNOW V | ETSI SAGE | postponed | - | - |
| S3-210015 | LS on SG17 new work item 'Security Methodology for Zero-Touch Massive IoT Deployment' | ITU-T SG17 | noted | - | - |
| S3-210016 | LS on Use of Inclusive Language in 3GPP | SP-201143 | noted | - | - |
| S3-210017 | LS on 5G-GUTI reallocation after paging of a UE in 5GMM-IDLE mode with suspend indication | C1-200967 | noted | - | - |
| S3-210018 | Reply LS to SA3 on FBS detection | R2-1914224 | replied to | - | - |
| S3-210019 | LS on propagation of user consent related information during Xn inter-PLMN handover | R3-204378 | withdrawn | - | - |
| S3-210020 | LS on Security Requirements for Sidelink/PC5 Relays | S2-2004750 | postponed | - | - |
| S3-210021 | LS on method for collection of data from the UE | S2-2006292 | replied to | - | - |
| S3-210022 | Reply to LS on Resynchronisations | ETSI SAGE | postponed | - | - |
| S3-210023 | Reply LS on AUSF/UDM discovery based on SUCI information | S2-2009207 | noted | - | - |
| S3-210024 | LS on Support of L2TP on SGi/N6 with Control and User Plane Separation | C4-205478 | replied to | - | - |
| S3-210025 | LS on Changes to SoR Delivery Mechanism | C4-205696 | postponed | - | - |
| S3-210026 | Reply LS on the user consent for trace reporting | R2-2010894 | postponed | - | - |
| S3-210027 | Reply LS on the re-keying procedure for NR SL | R2-2010963 | replied to | - | - |
| S3-210028 | LS on propagation of user consent related information during Xn inter-PLMN handover | R3-204378 | postponed | - | - |
| S3-210029 | Reply LS on System support for Multi-USIM devices | R3-207207 | noted | - | - |
| S3-210030 | LS on integrity and confidentiality protection of xcap-diff and pidf documents in MCPTT (TS 24.379) | R5- 206273 | noted | - | - |
| S3-210031 | LS on Security Requirements for Sidelink/PC5 Relays | S2-2004750 | withdrawn | - | - |
| S3-210032 | Reply on method for collection of data from the UE | S4-201584 | noted | - | - |
| S3-210033 | TC CYBER Activities | ETSI TC CYBER | noted | - | - |
| S3-210034 | New Key Issue: MBS Location Privacy | MITRE | revised | - | S3-210036 |
| S3-210035 | New Key Issue: MBS Location Privacy | MITRE | withdrawn | - | - |
| S3-210036 | New Key Issue: MBS Location Privacy | MITRE | noted | S3-210034 | - |
| S3-210037 | Update of clause 4.2 | KPN N.V. | approved | - | - |
| S3-210038 | New KI: Protection of TUAK TOPc value during storage in UDR | KPN N.V. | approved | - | - |
| S3-210039 | New KI: Protection of TUAK TOPc value during transfer out of UDR | KPN N.V. | approved | - | - |
| S3-210040 | New Solution: Protection of SQN during storage in UDR | KPN N.V. | revised | - | S3-210709 |
| S3-210041 | New Solution: Protection of SQN during transfer out of UDR | KPN N.V. | merged | - | S3-210715 |
| S3-210042 | New Solution: Protection of TUAK TOPc value during storage in UDR | KPN N.V. | revised | - | S3-210712 |
| S3-210043 | New Solution: Protection of TUAK TOPc value during transfer out of UDR | KPN N.V. | revised | - | S3-210713 |
| S3-210044 | Updated Solution #8: Encrypted transfer of OPc between UDR and UDM/ARPF | KPN N.V. | revised | - | S3-210714 |
| S3-210045 | Updated Solution #9: Encrypted transfer of OP between UDR and UDM/ARPF | KPN N.V. | revised | - | S3-210716 |
| S3-210046 | Updated Solution #10: Encrypted strorage of OPc in UDR | KPN N.V. | revised | - | S3-210717 |
| S3-210047 | Updated Solution #11: Encrypted storage of OP in UDR | KPN N.V. | revised | - | S3-210718 |
| S3-210048 | TCG progress - report from TCG rapporteur | InterDigital, Inc. | noted | - | - |
| S3-210049 | Limited service state for missioncritical services | BDBOS | not pursued | - | - |
| S3-210050 | Update to solution #17 (6.17.2) of TR 33.809 | Deutsche Telekom AG | approved | - | - |
| S3-210051 | Discussion – R17 Group regroup and user regroup security | Motorola Solutions Danmark A/S | noted | - | - |
| S3-210052 | [33.180] R17 Group regroup and user regroup security | Motorola Solutions Danmark A/S | not pursued | - | - |
| S3-210053 | [33.180] R14 RFC3830 reference correction | Motorola Solutions Danmark A/S | agreed | - | - |
| S3-210054 | [33.180] R15 RFC3830 reference correction (mirror) | Motorola Solutions Danmark A/S | agreed | - | - |
| S3-210055 | [33.180] R16 RFC3830 reference correction (mirror) | Motorola Solutions Danmark A/S | agreed | - | - |
| S3-210056 | [33.180] R17 RFC3830 reference correction (mirror) | Motorola Solutions Danmark A/S | agreed | - | - |
| S3-210057 | [33.180] R14 XML encryption correction | Motorola Solutions Danmark A/S | agreed | - | - |
| S3-210058 | [33.180] R15 XML encryption correction (mirror) | Motorola Solutions Danmark A/S | agreed | - | - |
| S3-210059 | [33.180] R16 XML encryption correction (mirror) | Motorola Solutions Danmark A/S | agreed | - | - |
| S3-210060 | [33.180] R17 XML encryption correction (mirror) | Motorola Solutions Danmark A/S | agreed | - | - |
| S3-210061 | Discussion on Conclusion to TR 33.840 | Futurewei | endorsed | - | - |
| S3-210062 | Conclusion to TR 33.840 | Futurewei | revised | - | S3-210595 |
| S3-210063 | LS on conclusion of security study of disaggregated gNB architecture | Futurewei | revised | - | S3-210596 |
| S3-210064 | 5G architecture enhancements for BEST | KPN N.V. | approved | - | - |
| S3-210065 | Error code details - Resolving ed note in 13.2.2.6 | Nokia, Nokia Shanghai Bell | withdrawn | S3-201797 | - |
| S3-210066 | TS 33.536 - overall clean-up | LG Electronics Inc. | revised | - | S3-210705 |
| S3-210067 | TR 33.847 - Remove ENs in KI1 | LG Electronics Inc. | noted | - | - |
| S3-210068 | TR 33.847 - Resolve ENs in Sol13 | LG Electronics Inc. | revised | - | S3-210636 |
| S3-210069 | TR 33.847 - Evaluation of Sol13 | LG Electronics Inc. | revised | - | S3-210637 |
| S3-210070 | TR 33.847 - New KI on security protection misalignment in L3 UE2NW relay | LG Electronics Inc. | noted | - | - |
| S3-210071 | Updated Solution #22: Representation of identities during broadcast | KPN N.V. | revised | - | S3-210555 |
| S3-210072 | Updated Solution #23: Initial key with validity time | KPN N.V. | revised | - | S3-210557 |
| S3-210073 | Correct NAS uplink COUNT for KgNB/KeNB derivation | MediaTek Inc. | agreed | S3-202947 | - |
| S3-210074 | Error code details - Resolving ed note in 13.2.2.6 | Nokia, Nokia Shanghai Bell | revised | S3-201797 | S3-210723 |
| S3-210075 | Error code details - Resolving ed note in 13.2.2.6 | Nokia, Nokia Shanghai Bell | revised | - | S3-210724 |
| S3-210076 | Evaluation of solution 6 | NCSC | approved | - | - |
| S3-210077 | Evaluation of solution 7 | NCSC | approved | - | - |
| S3-210078 | Evaluation of solution 8 | NCSC | noted | - | - |
| S3-210079 | Evaluation of solution 9 | NCSC | noted | - | - |
| S3-210080 | Evaluation of solution 10 | NCSC | noted | - | - |
| S3-210081 | Evaluation of solution 11 | NCSC | noted | - | - |
| S3-210082 | New solution for KI#8 | NCSC | merged | - | S3-210709 |
| S3-210083 | New solution for KI#9 | NCSC | revised | - | S3-210715 |
| S3-210084 | Some conclusions for TR 33.845 | NCSC | merged | - | S3-210708 |
| S3-210085 | Editorial corrections | NCSC | approved | - | - |
| S3-210086 | TR 33.847 Update for KI #4 | InterDigital, Inc. | revised | - | S3-210149 |
| S3-210087 | TR 33.848 Jan 2021 Refresh | BT plc | approved | - | - |
| S3-210088 | Discussion on user versus subscriber in relation to the U3C study | Futurewei | noted | - | - |
| S3-210089 | KI on U3C User Identification | Futurewei | noted | - | - |
| S3-210090 | gNB Cipher Security Policy Verification | Futurewei | revised | - | S3-210795 |
| S3-210091 | gNB Integrity Security Policy Verification | Futurewei | revised | - | S3-210796 |
| S3-210092 | pCR Signing solutions and cell selection in TR 33.809 | VODAFONE Group Plc | noted | - | - |
| S3-210093 | TR 33.854 Update for solution#5 | InterDigital, Europe, Ltd. | revised | - | S3-210593 |
| S3-210094 | Solution for UAV location privacy | InterDigital, Europe, Ltd. | revised | - | S3-210594 |
| S3-210095 | Choice of cryptographic algorithm in 256-bit Milenage | ETSI SAGE | postponed | - | - |
| S3-210096 | NF Service Consumer and Producer in Service Request Process | Nokia, Nokia Shanghai Bell | revised | - | S3-210725 |
| S3-210097 | Access Token Misuse Prevention | Nokia, Nokia Shanghai Bell | revised | - | S3-210727 |
| S3-210098 | NF Service Consumer and Producer in Service Request Process | Nokia, Nokia Shanghai Bell | revised | - | S3-210726 |
| S3-210099 | Access Token Misuse Prevention | Nokia, Nokia Shanghai Bell | revised | - | S3-210728 |
| S3-210100 | SCAS Protection Policies - TBD updated | Nokia, Nokia Shanghai Bell | revised | - | S3-210729 |
| S3-210101 | Protection policies test case | Nokia, Nokia Shanghai Bell, NTT Docomo, Huawei, HiSilicon | revised | - | S3-210730 |
| S3-210102 | Optional registration of NF Service Consumer to NRF | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | not pursued | - | - |
| S3-210103 | Optional registration of NF Service Consumer to NRF | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | not pursued | - | - |
| S3-210104 | Optional registration of NF Service Consumer to NRF | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | not pursued | - | - |
| S3-210105 | TR 33866-020\_update on formats and typos | Nokia, Nokia Shanghai Bell, China Mobile | revised | - | S3-210569 |
| S3-210106 | Abbreviations.doc | Nokia, Nokia Shanghai Bell | revised | - | S3-210570 |
| S3-210107 | KI on protection of data in transfer | Nokia, Nokia Shanghai Bell | revised | - | S3-210573 |
| S3-210108 | Usage of current SBA mechanisms to protect data in transfer | Nokia, Nokia Shanghai Bell | revised | - | S3-210574 |
| S3-210109 | KI details on Anomalous NF behaviour detection by NWDAF | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210110 | Threats on KI Anomalous NF behavior detection by NWDAF | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210111 | Requirements on KI Anomalous NF behavior detection by NWDAF | Nokia, Nokia Shanghai Bell | revised | - | S3-210572 |
| S3-210112 | KI on UE data collection protection | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210113 | Threats and requirements to KI on UE data collection protection | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210114 | Solution on UE data collection protection.docx | Nokia, Nokia Shanghai Bell | revised | - | S3-210581 |
| S3-210115 | Requirements to KI on Processing of tampered data | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210116 | KI on Authorization of consumers for data access via DCCF.doc | Nokia, Nokia Shanghai Bell | revised | - | S3-210571 |
| S3-210117 | TR 33.867 – New KI – Confidentiality Protection | InterDigital, Inc. | noted | - | - |
| S3-210118 | TR 33.867 – New KI – User Authentication | InterDigital, Inc. | noted | - | - |
| S3-210119 | TR 33.867 – New KI – Replay Protection | InterDigital, Inc. | noted | - | - |
| S3-210120 | TR 33.867 – New KI – Integrity Protection | InterDigital, Inc. | noted | - | - |
| S3-210121 | TR 33.867 – New KI – Non-Repudiation | InterDigital, Inc. | noted | - | - |
| S3-210122 | TR 33.847 Update for solution #10 | InterDigital, Inc. | revised | - | S3-210598 |
| S3-210123 | Solution for NSSAA procedure for Remote UE with L3 UE-to-Network relay | InterDigital, Inc. | revised | - | S3-210601 |
| S3-210124 | Solution for secondary authentication Remote UE with L3 UE-to-Network relay | InterDigital, Inc. | revised | - | S3-210600 |
| S3-210125 | TR 33.847 Update for solution #12 | InterDigital, Inc. | approved | - | - |
| S3-210126 | TR 33.857: scope | THALES | noted | - | - |
| S3-210127 | Living document for TS 33.220: addition of UDM | THALES | noted | - | - |
| S3-210128 | Living document for TS 33.223: addition of UDM | THALES | noted | - | - |
| S3-210129 | TR 33.846: conclusion for key issue #2.1 | THALES | noted | - | - |
| S3-210130 | TR 33.846: conclusion for key issue #4.1 | THALES | noted | - | - |
| S3-210131 | Additions to FBS Solution #23 | Philips International B.V. | revised | - | S3-210783 |
| S3-210132 | Additions to FBS Solution #24 | Philips International B.V., CableLabs, Nokia, Nokia Shanghai Bell | revised | - | S3-210784 |
| S3-210133 | New solution FBS KI#2 | Philips International B.V. | noted | - | - |
| S3-210134 | Additions to MBS Solution #2 | Philips International B.V. | approved | - | - |
| S3-210135 | Clarifications regarding Authentication procedure for V2X PC5 unicast link | Nokia, Nokia Shanghai Bell | revised | - | S3-210804 |
| S3-210136 | Solution for protecting the privacy of the UE identity. | Nokia, Nokia Shanghai Bell | revised | - | S3-210801 |
| S3-210137 | [DRAFT] Reply-LS on security issue for on-boarding and remote provisioning. | Nokia, Nokia Shanghai Bell | revised | - | S3-210800 |
| S3-210138 | Discussion on NSSAA Editor note for sending S-NSSAI to the AAA-S. | Nokia | noted | - | - |
| S3-210139 | CR to delete the EN (rel-16) in NSSAA clause | Nokia | not pursued | - | - |
| S3-210140 | CR to dete the NSSAA Editor Note (Rel-17) | Nokia | not pursued | - | - |
| S3-210141 | Authentication procedure during Xn handover procedure | NEC | not pursued | - | - |
| S3-210142 | New WID for supporting NSWO in 5G | ATT, Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210143 | Enhanced description for KI#7 | Nokia, Nokia Shanghai Bell, Philips | noted | - | - |
| S3-210144 | DISC Handling of latest Kasuf | NEC | noted | - | - |
| S3-210145 | Key Issue on privacy issues relating to Paging Cause exposure | Nokia, Nokia Shangahi Bell, Samsung | noted | - | - |
| S3-210146 | Maintaining latest Kausf | NEC | not pursued | - | - |
| S3-210147 | Secure Busy indication | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210148 | SUCI Linkability attack | NEC | noted | - | - |
| S3-210149 | TR 33.847 Update for KI #4 | InterDigital, Inc., LG Electronics | noted | S3-210086 | - |
| S3-210150 | AMF re-allocation Solution#4 | Nokia, Nokia Shanghai Bell | merged | - | S3-210684 |
| S3-210151 | AAnF checks AKMA service for UE and AF in clause 6.3 | ZTE Corporation | revised | - | S3-210760 |
| S3-210152 | AAnF selection in AF | ZTE Corporation | revised | - | S3-210761 |
| S3-210153 | Add Application Key Get service in clause 7.1 | ZTE Corporation | revised | - | S3-210762 |
| S3-210154 | Kakma invalid and Kausf invalid in clause 6.2 | ZTE Corporation | not pursued | - | - |
| S3-210155 | Resolution of EN on other parameter in clause 6.3 | ZTE Corporation | not pursued | - | - |
| S3-210156 | the KAF lifetime expiration in clause 5.2 | ZTE Corporation | revised | - | S3-210763 |
| S3-210157 | Discussion paper on KAUSF invalid and KAKMA invalid | ZTE Corporation | noted | - | - |
| S3-210158 | UDM notifies AAnF AKMA context removal | ZTE Corporation | not pursued | - | - |
| S3-210159 | New security functional requirement and related test case on validating of user data transported | ZTE Corporation | merged | - | S3-210755 |
| S3-210160 | Update the clause 5.2.5.5.7 | ZTE Corporation, China Mobile | revised | - | S3-210764 |
| S3-210161 | Conclusion for Key Issue #4.1 | ZTE Corporation | noted | - | - |
| S3-210162 | New solution for key issue# 4.1 in TR 33.846 | ZTE Corporation | revised | - | S3-210766 |
| S3-210163 | Solution of Mitigation against the SUPI replay attack | ZTE Corporation | revised | - | S3-210769 |
| S3-210164 | Update solution#2.1 in TR 33.846 | ZTE Corporation | revised | - | S3-210767 |
| S3-210165 | Update the evaluation for solution# 4.1 | ZTE Corporation | approved | - | - |
| S3-210166 | Update the evaluation for solution# 4.2 | ZTE Corporation | approved | - | - |
| S3-210167 | Update the evaluation for solution# 4.3 | ZTE Corporation | noted | - | - |
| S3-210168 | Update the evaluation for solution# 4.4 | ZTE Corporation | noted | - | - |
| S3-210169 | Update the key issue 4.1 | ZTE Corporation | noted | - | - |
| S3-210170 | AMF selection in multiple NAS connections in solution#6.7 in TR 33.839 | ZTE Corporation | approved | - | - |
| S3-210171 | LBO roaming scenario should be supported in solution#6.7 in TR 33.839 | ZTE Corporation | revised | - | S3-210633 |
| S3-210172 | Update the key issue#7 in TR 33.839 | ZTE Corporation | revised | - | S3-210634 |
| S3-210173 | Update the solution#14 in TR 33.839 | ZTE Corporation | revised | - | S3-210635 |
| S3-210174 | Update to Solution #3 | ZTE Corporation | approved | - | - |
| S3-210175 | Update to Solution #4 | ZTE Corporation | approved | - | - |
| S3-210176 | Evaluation of Solution #8 | ZTE Corporation | revised | - | S3-210638 |
| S3-210177 | Evaluation of Solution #9 | ZTE Corporation | revised | - | S3-210639 |
| S3-210178 | New solution on security of AMF re-allocation using Registration Reject message | ZTE Corporation | noted | - | - |
| S3-210179 | New solution on security of AMF re-allocation using RRC Release message | ZTE Corporation | noted | - | - |
| S3-210180 | Updates to solution 18: Removal EN related to EEC ID | Intel Corporation (UK) Ltd | revised | - | S3-210623 |
| S3-210181 | Add new solution in TR 33.839 | CATT | noted | - | - |
| S3-210182 | Updates to solution 18: Removal EN related to identification of serving AMF | Intel Corporation (UK) Ltd | revised | - | S3-210624 |
| S3-210183 | Remove the EN in solution #5 | CATT | revised | - | S3-210677 |
| S3-210184 | Key issue on authorization revocation in TR 33.839 | CATT | noted | - | - |
| S3-210185 | Remove EN in Solution #6 in TR 33.839 | CATT | revised | - | S3-210678 |
| S3-210186 | Updates to solution 18: Removal EN related to roaming | Intel Corporation (UK) Ltd | noted | - | - |
| S3-210187 | Add new key issue for user consent | CATT | noted | - | - |
| S3-210188 | Add references in TR 33.866 | CATT | merged | - | S3-210569 |
| S3-210189 | Add new key issue in TR 33.866 | CATT | merged | - | S3-210679 |
| S3-210190 | Updates to solution 4: evaluation | Intel Corporation (UK) Ltd | noted | - | - |
| S3-210191 | Updates to solution 4 | Intel Corporation (UK) Ltd | noted | - | - |
| S3-210192 | Updates to solution 12: Removing EN | Intel Corporation (UK) Ltd | revised | - | S3-210625 |
| S3-210193 | Detection of MitM FBS | Huawei, HiSilicon | noted | - | - |
| S3-210194 | Reply LS on FBS detection | Huawei, HiSilicon | revised | - | S3-210756 |
| S3-210195 | Discussion paper for Rel17 SID on network slicing security | Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT, China Unicom, China Mobile, InterDigital, NEC | noted | - | - |
| S3-210196 | Rel17 SID on network slice security | Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT, China Unicom, China Mobile, InterDigital, NEC | withdrawn | - | - |
| S3-210197 | Discussion on SN-ID in NSSAA | Huawei, HiSilicon | noted | - | - |
| S3-210198 | Serving network ID in NSSAA | Huawei, HiSilicon | not pursued | - | - |
| S3-210199 | validity peirod of NSSAA result | Huawei, HiSilicon | not pursued | - | - |
| S3-210200 | Addressing EN in KI#7: scope of C2 Security | Huawei, HiSilicon | noted | - | - |
| S3-210201 | Remove EN1-align SA2 procedure | Huawei, HiSilicon | approved | - | - |
| S3-210202 | Remove EN2-align AF defined by SA2 | Huawei, HiSilicon | approved | - | - |
| S3-210203 | Remove EN3-revocation | Huawei, HiSilicon | revised | - | S3-210615 |
| S3-210204 | Remove EN1-exchange ID with USS | Huawei, HiSilicon | revised | - | S3-210616 |
| S3-210205 | Remove EN2- revocation | Huawei, HiSilicon | revised | - | S3-210617 |
| S3-210206 | Remove EN1:security of group management | Huawei, HiSilicon | revised | - | S3-210618 |
| S3-210207 | Remove EN2: Time synchronization | Huawei, HiSilicon | revised | - | S3-210619 |
| S3-210208 | Adding Evalaution | Huawei, HiSilicon | approved | - | - |
| S3-210209 | Security Solution for Busy Indication using NAS signaling | Intel Corporation (UK) Ltd | revised | - | S3-210626 |
| S3-210210 | Updates to key issue 2 | Intel Corporation (UK) Ltd | noted | - | - |
| S3-210211 | New WID on 5GFBS | Apple, AT&T, Deutsche Telekom, Charter Communication, China Unicom, NIST, CableLabs, Interdigital, Ericsson, Samsung, CAICT, CATT, Intel, vivo, MITRE, Philips | noted | - | - |
| S3-210212 | 5GFBS-Edotorial change After EditHelp | Apple | approved | - | - |
| S3-210213 | MUSIM-key issue on BUSY indication | Apple | revised | - | S3-210694 |
| S3-210214 | MUSIM-Solution to protect BUSY indication | Apple | merged | - | S3-210626 |
| S3-210215 | MBS-Modification on solution#1 | Apple | revised | - | S3-210693 |
| S3-210216 | MEC-Evaluation on solution#1 | Apple | approved | - | - |
| S3-210217 | MEC-Modification on solution#22 | Apple | revised | - | S3-210692 |
| S3-210218 | New Key Issue on UE preferred SNPN information update | Alibaba Group | noted | - | - |
| S3-210219 | New solution on preferred SNPN information update | Alibaba Group | noted | - | - |
| S3-210220 | New solution on UE onboarding for SNPN with the interaction between PS and DCS | Alibaba Group | revised | - | S3-210602 |
| S3-210221 | Threat to send EAP-Identity Request by N3IWF | China Unicom | revised | - | S3-210805 |
| S3-210222 | Check whether the N3IWF sends the EAP-Identity Request message | China Unicom | revised | - | S3-210802 |
| S3-210223 | Draft CR on Clarification for UP integrity Mechanisms between the UE and the ng-eNB | Huawei, HiSilicon | merged | - | S3-210700 |
| S3-210224 | Draft CR on Clarification for Handling for indication of UE supports UPIP | Huawei, HiSilicon | approved | - | - |
| S3-210225 | New Solution for UPIP for EPS | Huawei, HiSilicon | revised | - | S3-210655 |
| S3-210226 | New Use Case for MEC | Huawei, HiSilicon, Samsung | noted | - | - |
| S3-210227 | Add Terms for UC3S | Huawei, HiSilicon | approved | - | - |
| S3-210228 | Analysis for UC3S | Huawei, HiSilicon | revised | - | S3-210656 |
| S3-210229 | New Solution for Network Framework for DDoS Attack | Huawei, HiSilicon | approved | - | - |
| S3-210230 | Reply LS on Security issue for On-boarding and Remote Provisioning | Huawei, HiSilicon | merged | - | S3-210800 |
| S3-210231 | New Solution on Authentication for UE onboarding for SNPN | Huawei, HiSilicon | revised | - | S3-210657 |
| S3-210232 | Solution Update for Solution #5 | Huawei, HiSilicon | revised | - | S3-210658 |
| S3-210233 | System Impact and Evaluation for solution #5 | Huawei, HiSilicon | noted | - | - |
| S3-210234 | Threat analysis related to RRCConnectionReestablsihment in CP CIoT 5GS Optimization | Huawei, HiSilicon | approved | - | - |
| S3-210235 | Draft CR on New Test Case on RRCConnectionReestablsihment in CP CIoT 5GS Optimization | Huawei, HiSilicon | approved | - | - |
| S3-210236 | Critical Assets for NWDAF | Huawei, HiSilicon, China Mobile | approved | - | - |
| S3-210237 | Network Product Class Description for NWDAF | Huawei, HiSilicon, China Mobile | approved | - | - |
| S3-210238 | Correction to the access token storage in NF service consumer | Huawei, HiSilicon | not pursued | - | - |
| S3-210239 | Correction to the access token storage in NF service consumer | Huawei, HiSilicon | revised | - | S3-210735 |
| S3-210240 | Correction to the access token storage in NF service consumer | Huawei, HiSilicon | revised | - | S3-210736 |
| S3-210241 | Correction to service request process in OAuth 2.0 based authorization rel16 | Huawei, HiSilicon | revised | - | S3-210793 |
| S3-210242 | Correction to service request process in OAuth 2.0 based authorization rel17 | Huawei, HiSilicon | revised | - | S3-210794 |
| S3-210243 | Slice privacy protection in NSSAA related procedure | Huawei, HiSilicon | not pursued | - | - |
| S3-210244 | Address Editor's Note in solution 15 | Huawei, HiSilicon | revised | - | S3-210659 |
| S3-210245 | A solution to protect PDU session related parameters for L2 relay | Huawei, HiSilicon | revised | - | S3-210660 |
| S3-210246 | Propose to resolve EN in KI#16 | Huawei, HiSilicon | noted | - | - |
| S3-210247 | Propose to resolve ENs in the clause of KI detail of KI#12 | Huawei, HiSilicon | approved | - | - |
| S3-210248 | Propose to mitigate policy confliction using match report | Huawei, HiSilicon | revised | - | S3-210662 |
| S3-210249 | Propose to mitigate policy conflication using restricted discovery | Huawei, HiSilicon | revised | - | S3-210663 |
| S3-210250 | Clarification on key derivation | Huawei, HiSilicon | revised | - | S3-210737 |
| S3-210251 | Reply LS about the layer to provide security | Huawei, HiSilicon | revised | - | S3-210738 |
| S3-210252 | Update evaluation to Solution#7 | Huawei, HiSilicon | noted | - | - |
| S3-210253 | Clarification on A-KID generation | Huawei, HiSilicon | revised | - | S3-210739 |
| S3-210254 | Clarification on AAnF Selection | Huawei, HiSilicon | not pursued | - | - |
| S3-210255 | Update Key issue #11 | Huawei, HiSilicon | noted | - | - |
| S3-210256 | Evaluation on Solution#3 | Huawei, HiSilicon | revised | - | S3-210664 |
| S3-210257 | Evaluation on Solution#4 | Huawei, HiSilicon | revised | - | S3-210665 |
| S3-210258 | Evaluation on Solution#5 | Huawei, HiSilicon | noted | - | - |
| S3-210259 | Evaluation on solution #11 | Huawei, HiSilicon | noted | - | - |
| S3-210260 | Conclusion on PC3 protection | Huawei, HiSilicon | noted | - | - |
| S3-210261 | Address Editor's Note in solution 14 | Huawei, HiSilicon | revised | - | S3-210680 |
| S3-210262 | Threat to trigger condition on NSSAA procedure | Huawei, HiSilicon | noted | - | - |
| S3-210263 | Living document for TS 33.511 | Huawei, HiSilicon | approved | - | - |
| S3-210264 | Living document for TS 33.512 | Huawei, HiSilicon | revised | - | S3-210740 |
| S3-210265 | Living document for TS 33.514 | Huawei, HiSilicon | approved | - | - |
| S3-210266 | Living document for TS 33.517 | Huawei, HiSilicon | approved | - | - |
| S3-210267 | Living document for TS 33.117 | Huawei, HiSilicon | approved | - | - |
| S3-210268 | Living document for TR 33.926 | Huawei, HiSilicon | revised | - | S3-210741 |
| S3-210269 | Threat analysis on the ability to create different child Sas | Huawei, HiSilicon, China Unicom | noted | - | - |
| S3-210270 | Check whether the N3IWF has the ability to create different child Sas | Huawei, HiSilicon, China Unicom | noted | - | - |
| S3-210271 | Threat analysis on mixing CP and UP into main SA | Huawei, HiSilicon | noted | - | - |
| S3-210272 | Check whether the N3IWF creats a child SA for PDU session | Huawei, HiSilicon | noted | - | - |
| S3-210273 | Threat analysis on select AAA-P and AAA-S | Huawei, HiSilicon | approved | - | - |
| S3-210274 | NSSAAF route the S-NSSAI to the right place | Huawei, HiSilicon | approved | - | - |
| S3-210275 | New skeleton to TR 33867 | Huawei, HiSilicon | approved | - | - |
| S3-210276 | Threat analysis on finding the right NF insances are serving this UE | Huawei, HiSilicon, China Mobile | approved | - | - |
| S3-210277 | Solution to UE onboarding for non-public networks | Intel Corporation (UK) Ltd | revised | - | S3-210621 |
| S3-210278 | Conclusions to TR33.840 | China Telecommunications | merged | - | S3-210595 |
| S3-210279 | Authentication procedure during Xn handover procedure | NEC | not pursued | - | - |
| S3-210280 | Solution to UE onboarding for non-public networks using PA and SA | Intel Corporation (UK) Ltd | revised | - | S3-210622 |
| S3-210281 | pCR to TR33.847- New solution on L3 UE-to-Network Relay | CATT | revised | - | S3-210674 |
| S3-210282 | new solution to mitigate supi guessing and suci replay attack | Huawei, HiSilicon | revised | - | S3-210742 |
| S3-210283 | F1 interface security for IAB in NR-DC mode | Huawei, HiSilicon | noted | - | - |
| S3-210284 | updating the scope in TR33.824 | Huawei, HiSilicon | revised | - | S3-210666 |
| S3-210285 | Conclusion on key issue 4 | Huawei, HiSilicon | noted | - | - |
| S3-210286 | Addressing the EN on solution1 | Huawei, HiSilicon | approved | - | - |
| S3-210287 | Addressing the EN on solution2 | Huawei, HiSilicon | revised | - | S3-210672 |
| S3-210288 | New solution for traffic protection in service layer | Huawei, HiSilicon | revised | - | S3-210667 |
| S3-210289 | New solution to support the UE mobility in MBS | Huawei, HiSilicon | merged | - | S3-210610 |
| S3-210290 | Update the terms in TR 33.850 | Huawei, HiSilicon | approved | - | - |
| S3-210291 | Add evaluation to solution 1 | Huawei, HiSilicon | revised | - | S3-210668 |
| S3-210292 | Add evaluation to solution 3 | Huawei, HiSilicon | revised | - | S3-210669 |
| S3-210293 | Reply LS on User location identification from Carrier Aggregation secondary cell activation messages | HUAWEI TECHNOLOGIES Co. Ltd. | noted | - | - |
| S3-210294 | Clarification on security protection in AMF reallocation(direct NAS reroute) | Huawei, HiSilicon | revised | - | S3-210743 |
| S3-210295 | UC3S\_SID\_revision | Huawei, HiSilicon | noted | - | - |
| S3-210296 | pCR to TR33.847- New solution on UE-to-Network Relay based on primary authentication | CATT | revised | - | S3-210675 |
| S3-210297 | Adding a new threat related with biding down attack in the threats | China Telecom, Huawei, HiSilicon | not pursued | - | - |
| S3-210298 | New SID on security aspects on PAP/CHAP protocols in 5GS | China Telecom, Huawei, HiSilicon | noted | - | - |
| S3-210299 | Evaluation on solution #14 | Huawei, HiSilicon | approved | - | - |
| S3-210300 | Resolving the ENs related with abort operation in the test case | China Telecom, Huawei, HiSilicon | approved | - | - |
| S3-210301 | Reply LS on propagation of user consent related information during Xn inter-PLMN handover | Ericsson Limited | noted | - | - |
| S3-210302 | Reply LS on SLIC | Ericsson Limited | noted | - | - |
| S3-210303 | Clarifying the scope | China Mobile | revised | - | S3-210770 |
| S3-210304 | Clarifying for types of virtualised network product class | China Mobile | revised | - | S3-210771 |
| S3-210305 | Clarifying for Generic virtualised network product model class description | China Mobile | approved | - | - |
| S3-210306 | Clarifying for Generic assets and threats for GVNP of type 1 | China Mobile | revised | - | S3-210772 |
| S3-210307 | Clarifying for Generic assets and threats for GVNP of type 2 and type 3 | China Mobile | approved | - | - |
| S3-210308 | Adding comparison | China Mobile | approved | - | - |
| S3-210309 | Modifying test case in clause 5.2.5.5.7.2 | China Mobile | noted | - | - |
| S3-210310 | clarifying the content in clause 5.2.5.6.6.1 and clause 5.2.5.6.7 | China Mobile | revised | - | S3-210773 |
| S3-210311 | Clarifying for the security requirements and test cases in clause 5.2.5.7.7.1 and 5.2.5.7.7.2 | China Mobile | noted | - | - |
| S3-210312 | Adding hardening requirements for GVNP of type 3 | China Mobile | approved | - | - |
| S3-210313 | Adding vendor development and product lifecycle processes and test laboratory accreditation into Clause 6 | China Mobile | noted | - | - |
| S3-210314 | Adding evaluation and SCAS instantiation into clause 7 | China Mobile | approved | - | - |
| S3-210315 | new proposal for way forward v2 | China Mobile | noted | - | - |
| S3-210316 | editorial correction on TR33818-coversheet | China Mobile | approved | - | - |
| S3-210317 | Solution to botnet terminal detection | China Mobile | noted | - | - |
| S3-210318 | Solution to provisioning of PNI-NPN credentials | China Mobile | approved | - | - |
| S3-210319 | Authentication and Authorization between 5GMSGS Client and MSGin5G server based on AKMA | China Mobile | approved | - | - |
| S3-210320 | Overview of MSGin5G Service | China Mobile | approved | - | - |
| S3-210321 | Solution to address the Key issue #2.2 in TR 33.846 | China Mobile | noted | - | - |
| S3-210322 | Discussion on enlarging the length of truncated MACs for 5G systems | China Mobile | noted | - | - |
| S3-210323 | Find the right NF instance are serving the UE | China Mobile, Huawei, HiSilicon | approved | - | - |
| S3-210324 | New Use Case for eNA | China Mobile | revised | - | S3-210603 |
| S3-210325 | Adding test case on the confidentiality configuration in P-CSCF | China Telecom, Huawei, HiSilicon | approved | - | - |
| S3-210326 | Correct current uplink EPS NAS COUNT used at derivation of a mapped 5G security context | MediaTek Inc. | revised | - | S3-210787 |
| S3-210327 | Linkability by distinguishing MAC failure and synchronization failure | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210328 | Update KI on SUPI guessing | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210329 | KI on linkability by SUCI | Nokia, Nokia Shanghai Bell | revised | - | S3-210731 |
| S3-210330 | Assuring SUCI generation by legitimiate SUPI owner | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210331 | EN resolution on SQNms protection | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210332 | Evaluation of solution 2.3 | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210333 | EN related note to solution 4.4 | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210334 | Evaluation criterias | Nokia, Nokia Shanghai Bell | merged | - | S3-210779 |
| S3-210335 | Editorial changes to TR | Nokia, Nokia Shanghai Bell | revised | - | S3-210732 |
| S3-210336 | SQNms protection by concealment in ME | Nokia, Nokia Shanghai Bell | revised | S3-203330 | S3-210733 |
| S3-210337 | AUTS SQNMS solution for EPS | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210338 | AUTS SQNMS solution for 5GS | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210339 | Typo correction in clause 6.9.9.4 | Xidian University | not pursued | - | - |
| S3-210340 | High-level conclusions for KI#1 (Credentials owned by an external entity) | Ericsson | noted | - | - |
| S3-210341 | Resolving EN in KI#1 | Ericsson | approved | - | - |
| S3-210342 | Authentication method selection for N5CW | Ericsson,Lenovo, Motorola Mobility, Cablelabs,Samsung | agreed | - | - |
| S3-210343 | draft LS on Feedback on function supporting primary authentication and authorization of SNPN UEs that use credentials from the AAA Server | Ericsson | revised | - | S3-210560 |
| S3-210344 | Resolving EN on SUPI privacy in solution #1 | Ericsson | revised | - | S3-210561 |
| S3-210345 | Authentication method selection for N5CW | Ericsson,Lenovo, Motorola Mobility, Cablelabs,Samsung | agreed | - | - |
| S3-210346 | High-level conclusions for KI#1 (Credentials owned by an external entity) | Ericsson | noted | - | - |
| S3-210347 | Clarification on the format of NF type in the NF certification | Huawei, Hisilicon | agreed | - | - |
| S3-210348 | Threats related to session establishment procedure | Huawei, Hisilicon | noted | - | - |
| S3-210349 | New test case on validation of S-NSSAIs in PDU session establishment request | Huawei, Hisilicon | noted | - | - |
| S3-210350 | DP on loop registration in CAG | Huawei, Hisilicon | noted | - | - |
| S3-210351 | LS on loop registration in CAG | Huawei, Hisilicon | noted | - | - |
| S3-210352 | New KI on service authorization for SNPNs | Huawei, Hisilicon | revised | - | S3-210644 |
| S3-210353 | New solution on service authorization for SNPNs | Huawei, Hisilicon | revised | - | S3-210645 |
| S3-210354 | New requirement on key issue #2 of TR 33.851 | Huawei, HiSilicon | noted | - | - |
| S3-210355 | Assets and threats specific of encryption in network hiding in the I-CSCF | Huawei, HiSilicon | approved | - | - |
| S3-210356 | New test case on encryption in network hiding in the I-CSCF | Huawei, HiSilicon | approved | - | - |
| S3-210357 | Assets and threats specific of network hiding in the IBCF | Huawei, HiSilicon | approved | - | - |
| S3-210358 | New test case on network hiding in the IBCF | Huawei, HiSilicon | approved | - | - |
| S3-210359 | eSCAS:Add a new test case for GUTI allocation | Huawei, Hisilicon | approved | - | - |
| S3-210360 | SCAS IPUPS: Add a new test | Huawei, Hisilicon | revised | - | S3-210755 |
| S3-210361 | eSCAS:Add a new test case for NSSAA | Huawei, Hisilicon | noted | - | - |
| S3-210362 | eSCAS: Updating the security threat to user privacy | Huawei, Hisilicon | approved | - | - |
| S3-210363 | eSCAS: Add a new threat on unauthorized slice access | Huawei, Hisilicon | noted | - | - |
| S3-210364 | SCAS: Correction of incomplete test cases | Huawei, Hisilicon | agreed | - | - |
| S3-210365 | EC: New key issue on N4 protection for UPF in customer network | Huawei, Hisilicon | noted | - | - |
| S3-210366 | EC: New solution to th ekey issue on N4 security | Huawei, Hisilicon | noted | - | - |
| S3-210367 | LS reply on changes to SoR delivery mechanims | Huawei, Hisilicon | noted | - | - |
| S3-210368 | 5MBS: Updats to solution #3 | Huawei, Hisilicon | revised | - | S3-210641 |
| S3-210369 | 5MBS: Adding overview | Huawei, Hisilicon | approved | - | - |
| S3-210370 | 5MBS: Updates to solution #4 | Huawei, Hisilicon | revised | - | S3-210642 |
| S3-210371 | 5MBS: Updates to solution #5 | Huawei, Hisilicon | revised | - | S3-210643 |
| S3-210372 | NPN: New solution to key issue #1 | Huawei, Hisilicon | noted | - | - |
| S3-210373 | AMFReal: Updates to solution #3 | Huawei, Hisilicon | revised | - | S3-210646 |
| S3-210374 | AMFReal: Updates to TR 33.864 | Huawei, Hisilicon | revised | - | S3-210647 |
| S3-210375 | IMS SCAS: living doc for the threats | Huawei, HiSilicon | approved | - | - |
| S3-210376 | Resolving the ENs related with biding down attacker in the test case | Huawei, HiSilicon | approved | - | - |
| S3-210377 | Resolving the Ens related with biding down attack in the threats | Huawei, HiSilicon | approved | - | - |
| S3-210378 | Clarification on confidential IEs replacement handling in original N32-f message | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | revised | - | S3-210745 |
| S3-210379 | Clarification on exposure of confidential IEs in N32-f message in TR 33.926 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | revised | - | S3-210746 |
| S3-210380 | Clarification on a figure and the key activation | Huawei, HiSilicon | agreed | - | - |
| S3-210381 | Resolving the EN on the authorization between SCPs | Huawei, HiSilicon | revised | - | S3-210747 |
| S3-210382 | Align the JSON format on encryption IE with CT4 in Rel15 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | revised | - | S3-210748 |
| S3-210383 | Mirror: align the JSON format on encryption IE with CT4 in Rel16 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | revised | - | S3-210749 |
| S3-210384 | Mirror: align the JSON format on encryption IE with CT4 in Rel17 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | revised | - | S3-210750 |
| S3-210385 | Adding the security requirement with encBlockIndex in Rel15 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | not pursued | - | - |
| S3-210386 | Mirror Adding the security requirement with encBlockIndex in Rel16 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | revised | - | S3-210751 |
| S3-210387 | Mirror Adding the security requirement with encBlockIndex in Rel17 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | revised | - | S3-210752 |
| S3-210388 | EC: Editorial changes and Resolving the ENs of solution #13 | Huawei, Hisilicon | approved | - | - |
| S3-210389 | EC: Resolving the En and adding evalution of solution #16 | Huawei, Hisilicon | revised | - | S3-210648 |
| S3-210390 | EC: Evaluation of solution #20 and conclusion of KI #8 | Huawei, Hisilicon | revised | - | S3-210649 |
| S3-210391 | EC: Evaluation of solution #21 | Huawei, Hisilicon | approved | - | - |
| S3-210392 | EC: Resolving the Editor’s notes and evaluation of solution #22 | Huawei, Hisilicon | revised | - | S3-210650 |
| S3-210393 | EC: skeleton of clause 7 and conclusion of KI #4 | Huawei, Hisilicon | revised | - | S3-210651 |
| S3-210394 | ProSe: Resolving the ENs of solution #16 | Huawei, Hisilicon | revised | - | S3-210652 |
| S3-210395 | Clarification on PLMN ID verification in Rel15 | Huawei, HiSilicon | not pursued | - | - |
| S3-210396 | Clarification on PLMN ID verification in Rel16 | Huawei, HiSilicon | not pursued | - | - |
| S3-210397 | Discussion paper on TAU reject issue during MME handover | Huawei, HiSilicon | noted | - | - |
| S3-210398 | LS on TAU reject issue during MME handover | Huawei, HiSilicon | noted | - | - |
| S3-210399 | IMS SCAS: Adding the assets and threats of the AS | Huawei, HiSilicon | approved | - | - |
| S3-210400 | Adding test cases on the authorization and privacy in AS | Huawei, HiSilicon | approved | - | - |
| S3-210401 | IMS SCAS: Adding the assets and threats of the MRFC | Huawei, HiSilicon | approved | - | - |
| S3-210402 | Adding details to provisioning key issue | Ericsson, China Mobile, Huawei, InterDigital, Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell, Philips, Samsung, ZTE | revised | - | S3-210704 |
| S3-210403 | Use case for KI#3 (Supporting IMS in SNPNs) not yet covered by existing specifications | Ericsson | noted | - | - |
| S3-210404 | New Solution to KI#3: Authentication to IMS Core using credentials generated with AKMA | Ericsson | noted | - | - |
| S3-210405 | New Solution to KI#3: Authentication to IMS Core using credentials generated from the KAUSF | Ericsson | noted | - | - |
| S3-210406 | LS on Feedback on Key Issue #4 "UE onboarding and remote provisioning" | Ericsson | noted | - | - |
| S3-210407 | Resolving SUPI privacy EN in solution #10 | Ericsson | revised | - | S3-210583 |
| S3-210408 | Resolving prerequisite EN in solution #10 | Ericsson | revised | - | S3-210584 |
| S3-210409 | Resolving indication EN in solution #10 | Ericsson | approved | - | - |
| S3-210410 | Resolving CP provisioning EN in solution #10 | Ericsson | noted | - | - |
| S3-210411 | Corrections for the NRF token request service | Ericsson | agreed | - | - |
| S3-210412 | Corrections for the NRF token request service | Ericsson | agreed | - | - |
| S3-210413 | OAuth 2.0 client registration and NF Service registration | Ericsson | noted | - | - |
| S3-210414 | New KI: Roaming case for token-based authorization in indirect communication | Ericsson | noted | - | - |
| S3-210415 | Correcting notation used for inter-AMF mobility key derivation | MediaTek Inc. | revised | S3-202948 | S3-210782 |
| S3-210416 | KI on Verification of UE in subscription and notification in the delegated "Subscribe-Notify" scenarios | Huawei, Hisilicon | revised | - | S3-210653 |
| S3-210417 | KI on Verification of UE in subscription and notification in the non-delegated "Subscribe-Notify" scenarios | Huawei, Hisilicon | merged | - | S3-210653 |
| S3-210418 | New key issue for Paging Cause protection | Huawei, HiSilicon | noted | - | - |
| S3-210419 | Analytics for MitM Attack Detection | Lenovo, Motorola Mobility | noted | - | - |
| S3-210420 | Skeleton of TR eSBA SEC | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210421 | Introduction | Nokia, Nokia Shanghai Bell | revised | - | S3-210562 |
| S3-210422 | Scope | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210423 | Authentication of NRF and NFp in indirect communication | Nokia, Nokia Shanghai Bell | revised | - | S3-210564 |
| S3-210424 | End-to-end authentication in roaming case | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210425 | SCP deployment models | Nokia, Nokia Shanghai Bell | revised | - | S3-210565 |
| S3-210426 | Verification of URI in subscription and notification | Nokia, Nokia Shanghai Bell | merged | - | S3-210653 |
| S3-210427 | Dynamic authorization between SCPs or between NF and SCP | Nokia, Nokia Shanghai Bell | revised | - | S3-210566 |
| S3-210428 | End-to-End Critical HTTP headers and body parts integrity protection | Nokia, Nokia Shanghai Bell | revised | - | S3-210567 |
| S3-210429 | NRF service management | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210430 | Update of Solution #7 | Lenovo, Motorola Mobility | noted | - | - |
| S3-210431 | Update of solution #6 | Lenovo, Motorola Mobility | approved | - | - |
| S3-210432 | Evaluation of solution #6 | Lenovo, Motorola Mobility | approved | - | - |
| S3-210433 | Update to Solution #24: Interworking handover from 5GS to EPS | Ericsson | revised | - | S3-210588 |
| S3-210434 | Update to Solution #21: Interworking handover from EPS to 5GS | Ericsson | revised | - | S3-210589 |
| S3-210435 | Update to Solution #22: S1 handover | Ericsson | revised | - | S3-210590 |
| S3-210436 | Update to Solution #23: X2 handover | Ericsson | revised | - | S3-210591 |
| S3-210437 | Discussion paper on UP IP policy in EPS | Ericsson | noted | - | - |
| S3-210438 | Conclusion on UE connects to EPC via eUTRA | Ericsson | revised | - | S3-210592 |
| S3-210439 | ProSe: Update to solution #21 | Ericsson | revised | - | S3-210585 |
| S3-210440 | ProSe: New solution for the use of authorization token in UE-to-UE relay | Ericsson | revised | - | S3-210586 |
| S3-210441 | ProSe: Update to solution #6 | Ericsson | revised | - | S3-210587 |
| S3-210442 | Mapping table | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210443 | Evaluation update of solution 7 | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210444 | DHIES encryption to avoid UAV spoofing | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210445 | Correction to FC values in range for future use in 3GPP specifications | Samsung | agreed | - | - |
| S3-210446 | [eNA]Updates to KI #1.1 | Samsung | approved | - | - |
| S3-210447 | Network provides authorization to AF/UE for KAF key refresh | Samsung | not pursued | - | - |
| S3-210448 | [ProSe] pCR for resolving ENs in solution#1 | Samsung | revised | - | S3-210577 |
| S3-210449 | Discussion on MitM attack | Samsung | noted | - | - |
| S3-210450 | CR for identification of MitM attack | Samsung | not pursued | - | - |
| S3-210451 | CR for correction in SEAL | Samsung | revised | - | S3-210707 |
| S3-210452 | CR to correct figure 7A.2.4-1 | Samsung | not pursued | - | - |
| S3-210453 | CR to correct figure 7A.2.4-1 | Samsung | not pursued | - | - |
| S3-210454 | Update to KI#4 in TR 33.862 | Samsung | revised | - | S3-210578 |
| S3-210455 | Authentication and authorization for MSGin5G UE | Samsung | revised | - | S3-210579 |
| S3-210456 | Authentication and authorization for legacy UE | Samsung | revised | - | S3-210580 |
| S3-210457 | Authentication and authorization for Non-3GPP UE | Samsung | revised | - | S3-210582 |
| S3-210458 | Updates to solution#7 to identify the appropriate AMF by the NEF | Samsung | revised | - | S3-210575 |
| S3-210459 | LS on Reply LS on Storage of KAUSF from CT1 | Samsung | revised | - | S3-210706 |
| S3-210460 | Handling of KAUSF upon successful primary authentication | Samsung, Nokia, Nokia Shanghai Bell, Intel | not pursued | - | - |
| S3-210461 | pCR: AMF re-allocation by re-directing UE to new AMF | Samsung | revised | - | S3-210576 |
| S3-210462 | Key Issue on Authorization for MUSIM optimizations | Samsung | noted | - | - |
| S3-210463 | Addition to support key update in Solution 1 | Philips International B.V. | revised | - | S3-210690 |
| S3-210464 | Conclusions for TR 33.845 | Ericsson | revised | - | S3-210708 |
| S3-210465 | Update to solution #17 | Ericsson | revised | - | S3-210604 |
| S3-210466 | Update to solution #2 | Ericsson | revised | - | S3-210605 |
| S3-210467 | Typo correction in clause 6.9.9.4 | Xidian University | withdrawn | - | - |
| S3-210468 | removal of Editor’s Notes | Ericsson | approved | - | - |
| S3-210469 | Some clarifications to solution #10 | Qualcomm Incorporated | revised | - | S3-210628 |
| S3-210470 | Proposed solution for pairing authorisation in 5G | Qualcomm Incorporated | revised | - | S3-210629 |
| S3-210471 | Proposed solution for UAV authorisation when connected to 4G | Qualcomm Incorporated | revised | - | S3-210630 |
| S3-210472 | Discussion on K\_AUSF handling | Qualcomm Incorporated | noted | - | - |
| S3-210473 | Update of solution #1 in TR 33.864 | Qualcomm Incorporated | revised | - | S3-210631 |
| S3-210474 | Addressing the EN in solution #18 | Qualcomm Incorporated | revised | - | S3-210632 |
| S3-210475 | Addressing some ENs in solution #20 | Qualcomm Incorporated | approved | - | - |
| S3-210476 | Proposed partial conclusion to key issues #1 and #2 | Qualcomm Incorporated | merged | - | S3-210592 |
| S3-210477 | Profiling the GBA TLS protocols for use with AKMA | Qualcomm Incorporated | not pursued | - | - |
| S3-210478 | Adding references to AKMA profiles of Ua protocols | Qualcomm Incorporated | not pursued | - | - |
| S3-210479 | New WID on AKMA Ua protocol profiles | Qualcomm Incorporated | noted | - | - |
| S3-210480 | 5G GUTI re-allocation | Qualcomm Incorporated, Huawei, Hisilicon | revised | - | S3-210759 |
| S3-210481 | 5G CIoT K\_NG-RAN derivation | Qualcomm Incorporated | agreed | - | - |
| S3-210482 | New Key Issue on security policy handling for 5G Prose services | Qualcomm Incorporated, Huawei, Hisilicon, Ericsson | noted | - | - |
| S3-210483 | Solution 18 EN resolution | Qualcomm Incorporated | revised | - | S3-210608 |
| S3-210484 | Solution 19 EN resolution | Qualcomm Incorporated | approved | - | - |
| S3-210485 | Solution 20 EN resolution | Qualcomm Incorporated | revised | - | S3-210609 |
| S3-210486 | Update of solution #18 to add authorization for the UE-to-Network relay | Qualcomm Incorporated | revised | - | S3-210607 |
| S3-210487 | Security for MBS traffic during handover | Qualcomm Incorporated | revised | - | S3-210610 |
| S3-210488 | Reply LS on False Base Station Detection | Qualcomm Incorporated | noted | - | - |
| S3-210489 | Sending UE identifier to the AKMA AF | Qualcomm Incorporated, China Mobile | not pursued | S3-203191 | - |
| S3-210490 | Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options | Qualcomm Incorporated | revised | S3-203511 | S3-210701 |
| S3-210491 | pCR to UP IP draft CR to TS 33.501 | Qualcomm Incorporated | revised | - | S3-210700 |
| S3-210492 | Reply LS method for collection of data from the UE | Qualcomm Incorporated | revised | - | S3-210611 |
| S3-210493 | Addressing the EN in solution #4 | Qualcomm Incorporated | revised | - | S3-210613 |
| S3-210494 | pCR: Security architecture conclusion for KI #1 | Qualcomm Incorporated | revised | - | S3-210614 |
| S3-210495 | Addressing some ENs in solution #11 | Qualcomm Incorporated | revised | - | S3-210612 |
| S3-210496 | UE Sending GPSI (if available) to the AF | Samsung | not pursued | - | - |
| S3-210497 | pCR to TR 33.853 – New Best Effort solution for EPS using UE Radio Access capabilities | VODAFONE Group Plc | revised | - | S3-210556 |
| S3-210498 | Key issue on security of data via Messaging Framework | Ericsson | revised | - | S3-210679 |
| S3-210499 | New WID on 3GPP profiles for cryptographic algorithms and security protocols | Ericsson | revised | - | S3-210781 |
| S3-210500 | pCR to TR 33.853 - Updates to Solution#13 - MME and IoDT test impacts | VODAFONE Group Plc | revised | - | S3-210558 |
| S3-210501 | Home network triggered reauthentication | NTT DOCOMO INC. | noted | - | - |
| S3-210502 | pCR to TR 33.853 - Updates to Solution#14 – optional use of security mode command | VODAFONE Group Plc | approved | - | - |
| S3-210503 | pCR to TR 33.853 - Updates to Solution#15 – 5GC control concept | VODAFONE Group Plc | approved | - | - |
| S3-210504 | pCR to TR 33.853 - Updates to Solution#18 – small corrections | VODAFONE Group Plc | merged | - | S3-210632 |
| S3-210505 | Evaluation of Solution #7 | Lenovo, Motorola Mobility | revised | - | S3-210682 |
| S3-210506 | TR editorials | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210507 | Mapping table | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210508 | Annex on Security considerations for integration with TSN | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210509 | KI details Attacks based on asymmetric channel delay | Nokia, Nokia Shanghai Bell, Deutsche Telekom | noted | - | - |
| S3-210510 | Authorization of incoming time synchronization messages based on policies | Nokia, Nokia Shanghai Bell | noted | - | - |
| S3-210511 | Evaluation to solution 1 | Nokia, Nokia Shanghai Bell | merged | - | S3-210668 |
| S3-210512 | Evaluation to solution 3 | Nokia, Nokia Shanghai Bell | merged | - | S3-210669 |
| S3-210513 | pCR to TR 33.853 - Updates to Solution #20 – small corrections | VODAFONE Group Plc | revised | - | S3-210559 |
| S3-210514 | pCR to TR 33.853 - Updates to Solution #21 EPS to 5GS handover– evaluation | VODAFONE Group Plc | approved | - | - |
| S3-210515 | Updated proposal to introduce draft-ietf-emu-rfc5448bis to TS 33.501 | Ericsson | noted | S3-203322 | - |
| S3-210516 | pCR to TR 33.853 – New Solution #AC Handover from EPS to 5GS using unmodified R15/16 messages and procedures | VODAFONE Group Plc | approved | - | - |
| S3-210517 | TR 33.846: comparison of candidate solutions | THALES | revised | - | S3-210779 |
| S3-210518 | pCR to 33.809 - addition of evaluation for solution 8 | VODAFONE Group Plc | approved | - | - |
| S3-210519 | Living document for TS 33.220: SBA support for Zh and Zn interfaces | Ericsson | approved | - | - |
| S3-210520 | Living document for TS 33.223: SBA support for Zpn | Ericsson | approved | - | - |
| S3-210521 | pCR to living document for TS 33.220: Support GBA in UDM | Ericsson | noted | - | - |
| S3-210522 | pCR to living document for TS 33.223: Support GBA in UDM | Ericsson | noted | - | - |
| S3-210523 | [DRAFT] LS on the SBA for GBA | Ericsson | noted | - | - |
| S3-210524 | AMF reallocation: Update to solution #2 | Ericsson | noted | - | - |
| S3-210525 | Discussion paper on the shared network entity assumptions for the AMF re-allocation security study | Ericsson | noted | - | - |
| S3-210526 | Shared network entity assumptions for the purpose of AMF re-allocation | Ericsson | noted | - | - |
| S3-210527 | New solution for NAS re-route via RAN and the use of a well-connected network function | Ericsson | noted | - | - |
| S3-210528 | New solution for AMF re-allocation using a well-connected network function | Ericsson | noted | - | - |
| S3-210529 | Draft CR on algorithm selection | Ericsson | approved | - | - |
| S3-210530 | Notes: SAGE/SA3 2nd joint conference call on the 256-bit topics | NTT DOCOMO INC. | noted | - | - |
| S3-210531 | Resolving EN in Clause 4.3 Architecture and Security Assumptions | Lenovo, Motorola Mobility | revised | - | S3-210683 |
| S3-210532 | Typo correction in clause 6.9.4.4 | Xidian University | agreed | - | - |
| S3-210533 | Update to Solution#4 on enabling security during AMF reallocation via RAN | Lenovo, Motorola Mobility | revised | - | S3-210684 |
| S3-210534 | Solution to ensure system availability for indirect AMF reallocation | Lenovo, Motorola Mobility | revised | - | S3-210685 |
| S3-210535 | Updates to Key Issue #7 | Lenovo, Motorola Mobility | revised | - | S3-210686 |
| S3-210536 | Presentation of Specification/Report to TSG: TR33.853, Version <2.0.0> | VODAFONE Group Plc | noted | - | - |
| S3-210537 | Update to Solution #7 | Lenovo, Motorola Mobility | revised | - | S3-210687 |
| S3-210538 | Solution on UAV and UAV-C Pairing Authorization | Lenovo, Motorola Mobility | revised | - | S3-210688 |
| S3-210539 | Rel17 SID on network slice security | Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT, China Unicom, China Mobile, InterDigital, NEC | revised | - | S3-210757 |
| S3-210540 | pCR to TR 33.853 – Conclusion on UE connects to EPC via eUTRA | VODAFONE Group Plc | merged | - | S3-210592 |
| S3-210541 | New annex of TR 33.809 – analysis of KI#2 and recommendations | CableLabs, Deutsche Telekom AG, InterDigital | noted | - | - |
| S3-210542 | [DRAFT] LS on User Plane Integrity Protection for eUTRA connected to EPC | VODAFONE Group Plc | revised | - | S3-210563 |
| S3-210543 | Solution to mitigate privacy issues of relay service codes and PDU parameters for L3 UE-to-NW relays | Philips International B.V. | revised | - | S3-210597 |
| S3-210544 | New WID on normative changes for User Plane Integrity Protection for LTE options | VODAFONE Group Plc | revised | - | S3-210722 |
| S3-210545 | resolving ed note on protection policy mismatch | NTT DOCOMO INC. | revised | - | S3-210792 |
| S3-210546 | Typo correction in clause 6.9.4.4 | Xidian University | withdrawn | - | - |
| S3-210547 | Typo correction in clause 6.9.4.4 | Xidian University | withdrawn | - | - |
| S3-210548 | Typo correction in clause 6.9.4.4 | Xidian University | withdrawn | - | - |
| S3-210549 | Typo correction in clause 6.9.4.4 | Xidian University | withdrawn | - | - |
| S3-210550 | Typo correction in clause 6.9.4.4 | Xidian University | agreed | - | - |
| S3-210551 | resolving ed note on protection policy mismatch | NTT DOCOMO INC. | merged | - | S3-210723 |
| S3-210552 | resolving ed note on protection policy mismatch | NTT DOCOMO INC. | merged | - | S3-210724 |
| S3-210553 | SA3 meeting calendar | WG Chair | noted | - | - |
| S3-210554 | Draft agenda for SA3 102bis-e | WG Chair | noted | - | - |
| S3-210555 | Updated Solution #22: Representation of identities during broadcast | KPN N.V. | approved | S3-210071 | - |
| S3-210556 | pCR to TR 33.853 – New Best Effort solution for EPS using UE Radio Access capabilities | VODAFONE Group Plc | approved | S3-210497 | - |
| S3-210557 | Updated Solution #23: Initial key with validity time | KPN N.V. | approved | S3-210072 | - |
| S3-210558 | pCR to TR 33.853 - Updates to Solution#13 - MME and IoDT test impacts | VODAFONE Group Plc | approved | S3-210500 | - |
| S3-210559 | pCR to TR 33.853 - Updates to Solution #20 – small corrections | VODAFONE Group Plc | approved | S3-210513 | - |
| S3-210560 | LS on Feedback on function supporting primary authentication and authorization of SNPN UEs that use credentials from the AAA Server | Ericsson | approved | S3-210343 | - |
| S3-210561 | Resolving EN on SUPI privacy in solution #1 | Ericsson | approved | S3-210344 | - |
| S3-210562 | Introduction | Nokia, Nokia Shanghai Bell | approved | S3-210421 | - |
| S3-210563 | LS on User Plane Integrity Protection for eUTRA connected to EPC | VODAFONE Group Plc | approved | S3-210542 | - |
| S3-210564 | Authentication of NRF and NFp in indirect communication | Nokia, Nokia Shanghai Bell, CableLabs, Mavenir | approved | S3-210423 | - |
| S3-210565 | SCP deployment models | Nokia, Nokia Shanghai Bell | approved | S3-210425 | - |
| S3-210566 | Dynamic authorization between SCPs or between NF and SCP | Nokia, Nokia Shanghai Bell | approved | S3-210427 | - |
| S3-210567 | End-to-End Critical HTTP headers and body parts integrity protection | Nokia, Nokia Shanghai Bell, Mavenir, CablLabs | approved | S3-210428 | - |
| S3-210568 | TR33.853 1.4.0 | VODAFONE Group Plc | approved | - | - |
| S3-210569 | TR 33866-020\_update on formats and typos | Nokia, Nokia Shanghai Bell, China Mobile | approved | S3-210105 | - |
| S3-210570 | Abbreviations.doc | Nokia, Nokia Shanghai Bell | approved | S3-210106 | - |
| S3-210571 | KI on Authorization of consumers for data access via DCCF.doc | Nokia, Nokia Shanghai Bell | approved | S3-210116 | - |
| S3-210572 | Requirements on KI Anomalous NF behavior detection by NWDAF | Nokia, Nokia Shanghai Bell | approved | S3-210111 | - |
| S3-210573 | KI on protection of data in transfer | Nokia, Nokia Shanghai Bell | approved | S3-210107 | - |
| S3-210574 | Usage of current SBA mechanisms to protect data in transfer | Nokia, Nokia Shanghai Bell | approved | S3-210108 | - |
| S3-210575 | Updates to solution#7 to identify the appropriate AMF by the NEF | Samsung, Lenovo and Motorola Mobility | approved | S3-210458 | - |
| S3-210576 | pCR: AMF re-allocation by re-directing UE to new AMF | Samsung | approved | S3-210461 | - |
| S3-210577 | [ProSe] pCR for resolving ENs in solution#1 | Samsung | approved | S3-210448 | - |
| S3-210578 | Update to KI#4 in TR 33.862 | Samsung | approved | S3-210454 | - |
| S3-210579 | Authentication and authorization for MSGin5G UE | Samsung | approved | S3-210455 | - |
| S3-210580 | Authentication and authorization for legacy UE | Samsung | approved | S3-210456 | - |
| S3-210581 | Solution on UE data collection protection.docx | Nokia, Nokia Shanghai Bell | approved | S3-210114 | - |
| S3-210582 | Authentication and authorization for Non-3GPP UE | Samsung | approved | S3-210457 | - |
| S3-210583 | Resolving SUPI privacy EN in solution #10 | Ericsson | approved | S3-210407 | - |
| S3-210584 | Resolving prerequisite EN in solution #10 | Ericsson | approved | S3-210408 | - |
| S3-210585 | ProSe: Update to solution #21 | Ericsson | approved | S3-210439 | - |
| S3-210586 | ProSe: New solution for the use of authorization token in UE-to-UE relay | Ericsson | approved | S3-210440 | - |
| S3-210587 | ProSe: Update to solution #6 | Ericsson | approved | S3-210441 | - |
| S3-210588 | Update to Solution #24: Interworking handover from 5GS to EPS | Ericsson | approved | S3-210433 | - |
| S3-210589 | Update to Solution #21: Interworking handover from EPS to 5GS | Ericsson | approved | S3-210434 | - |
| S3-210590 | Update to Solution #22: S1 handover | Ericsson | approved | S3-210435 | - |
| S3-210591 | Update to Solution #23: X2 handover | Ericsson | approved | S3-210436 | - |
| S3-210592 | Conclusion on UE connects to EPC via eUTRA | Ericsson | approved | S3-210438 | - |
| S3-210593 | TR 33.854 Update for solution#5 | InterDigital, Europe, Ltd. | approved | S3-210093 | - |
| S3-210594 | Solution for UAV location privacy | InterDigital, Europe, Ltd. | approved | S3-210094 | - |
| S3-210595 | Conclusion to TR 33.840 | Futurewei | approved | S3-210062 | - |
| S3-210596 | LS on conclusion of security study of disaggregated gNB architecture | Futurewei | approved | S3-210063 | - |
| S3-210597 | Solution to mitigate privacy issues of relay service codes and PDU parameters for L3 UE-to-NW relays | Philips International B.V. | approved | S3-210543 | - |
| S3-210598 | TR 33.847 Update for solution #10 | InterDigital, Inc. | approved | S3-210122 | - |
| S3-210599 | Solution for NSSAA procedure for Remote UE with L3 UE-to-Network relay | InterDigital, Inc. | withdrawn | - | - |
| S3-210600 | Solution for secondary authentication Remote UE with L3 UE-to-Network relay | InterDigital, Inc. | approved | S3-210124 | - |
| S3-210601 | Solution for NSSAA procedure for Remote UE with L3 UE-to-Network relay | InterDigital, Inc. | approved | S3-210123 | - |
| S3-210602 | New solution on UE onboarding for SNPN with the interaction between PS and DCS | Alibaba Group | approved | S3-210220 | - |
| S3-210603 | New Use Case for eNA | China Mobile | approved | S3-210324 | - |
| S3-210604 | Update to solution #17 | Ericsson | approved | S3-210465 | - |
| S3-210605 | Update to solution #2 | Ericsson | approved | S3-210466 | - |
| S3-210606 | TR 33.840 v1.0.0 | China Telecomunication Corp. | approved | - | - |
| S3-210607 | Update of solution #18 to add authorization for the UE-to-Network relay | Qualcomm Incorporated | approved | S3-210486 | - |
| S3-210608 | Solution 18 EN resolution | Qualcomm Incorporated | approved | S3-210483 | - |
| S3-210609 | Solution 20 EN resolution | Qualcomm Incorporated | approved | S3-210485 | - |
| S3-210610 | Security for MBS traffic during handover | Qualcomm Incorporated | approved | S3-210487 | - |
| S3-210611 | Reply LS method for collection of data from the UE | Qualcomm Incorporated | approved | S3-210492 | - |
| S3-210612 | Addressing some ENs in solution #11 | Qualcomm Incorporated | approved | S3-210495 | - |
| S3-210613 | Addressing the EN in solution #4 | Qualcomm Incorporated | approved | S3-210493 | - |
| S3-210614 | pCR: Security architecture conclusion for KI #1 | Qualcomm Incorporated | approved | S3-210494 | - |
| S3-210615 | Remove EN3-revocation | Huawei, HiSilicon | approved | S3-210203 | - |
| S3-210616 | Remove EN1-exchange ID with USS | Huawei, HiSilicon | approved | S3-210204 | - |
| S3-210617 | Remove EN2- revocation | Huawei, HiSilicon | approved | S3-210205 | - |
| S3-210618 | Remove EN1:security of group management | Huawei, HiSilicon | approved | S3-210206 | - |
| S3-210619 | Remove EN2: Time synchronization | Huawei, HiSilicon | approved | S3-210207 | - |
| S3-210620 | Draft TR 33.864 v0.3.0 Study on the security of Access and Mobility Management Function (AMF) re-allocation | Ericsson Japan K.K. | approved | - | - |
| S3-210621 | Solution to UE onboarding for non-public networks | Intel Corporation (UK) Ltd | approved | S3-210277 | - |
| S3-210622 | Solution to UE onboarding for non-public networks using PA and SA | Intel Corporation (UK) Ltd | approved | S3-210280 | - |
| S3-210623 | Updates to solution 18: Removal EN related to EEC ID | Intel Corporation (UK) Ltd | approved | S3-210180 | - |
| S3-210624 | Updates to solution 18: Removal EN related to identification of serving AMF | Intel Corporation (UK) Ltd | approved | S3-210182 | - |
| S3-210625 | Updates to solution 12: Removing EN | Intel Corporation (UK) Ltd | approved | S3-210192 | - |
| S3-210626 | Security Solution for Busy Indication using NAS signaling | Intel Corporation (UK) Ltd | approved | S3-210209 | - |
| S3-210627 | draft TR 33.873 Study on the security of the system enablers for devices having multiple Universal Subscriber Identity Modules 0.2 | Intel China Ltd. | approved | - | - |
| S3-210628 | Some clarifications to solution #10 | Qualcomm Incorporated | approved | S3-210469 | - |
| S3-210629 | Proposed solution for pairing authorisation in 5G | Qualcomm Incorporated | approved | S3-210470 | - |
| S3-210630 | Proposed solution for UAV authorisation when connected to 4G | Qualcomm Incorporated | approved | S3-210471 | - |
| S3-210631 | Update of solution #1 in TR 33.864 | Qualcomm Incorporated | approved | S3-210473 | - |
| S3-210632 | Addressing the EN in solution #18 | Qualcomm Incorporated, Vodafone | approved | S3-210474 | - |
| S3-210633 | LBO roaming scenario should be supported in solution#6.7 in TR 33.839 | ZTE Corporation | approved | S3-210171 | - |
| S3-210634 | Update the key issue#7 in TR 33.839 | ZTE Corporation | approved | S3-210172 | - |
| S3-210635 | Update the solution#14 in TR 33.839 | ZTE Corporation | approved | S3-210173 | - |
| S3-210636 | TR 33.847 - Resolve ENs in Sol13 | LG Electronics Inc. | approved | S3-210068 | - |
| S3-210637 | TR 33.847 - Evaluation of Sol13 | LG Electronics Inc. | approved | S3-210069 | - |
| S3-210638 | Evaluation of Solution #8 | ZTE Corporation | approved | S3-210176 | - |
| S3-210639 | Evaluation of Solution #9 | ZTE Corporation | approved | S3-210177 | - |
| S3-210640 | Draft TR 33.850 | Huawei, Hisilicon | revised | - | S3-210670 |
| S3-210641 | 5MBS: Updats to solution #3 | Huawei, Hisilicon | approved | S3-210368 | - |
| S3-210642 | 5MBS: Updates to solution #4 | Huawei, Hisilicon | approved | S3-210370 | - |
| S3-210643 | 5MBS: Updates to solution #5 | Huawei, Hisilicon | approved | S3-210371 | - |
| S3-210644 | New KI on service authorization for SNPNs | Huawei, Hisilicon | approved | S3-210352 | - |
| S3-210645 | New solution on service authorization for SNPNs | Huawei, Hisilicon | approved | S3-210353 | - |
| S3-210646 | AMFReal: Updates to solution #3 | Huawei, Hisilicon | approved | S3-210373 | - |
| S3-210647 | AMFReal: Updates to TR 33.864 | Huawei, Hisilicon | withdrawn | S3-210374 | - |
| S3-210648 | EC: Resolving the En and adding evalution of solution #16 | Huawei, Hisilicon | approved | S3-210389 | - |
| S3-210649 | EC: Evaluation of solution #20 and conclusion of KI #8 | Huawei, Hisilicon | approved | S3-210390 | - |
| S3-210650 | EC: Resolving the Editor’s notes and evaluation of solution #22 | Huawei, Hisilicon | approved | S3-210392 | - |
| S3-210651 | EC: skeleton of clause 7 and conclusion of KI #4 | Huawei, Hisilicon | approved | S3-210393 | - |
| S3-210652 | ProSe: Resolving the ENs of solution #16 | Huawei, Hisilicon | approved | S3-210394 | - |
| S3-210653 | KI on Verification of UE in subscription and notification in the delegated "Subscribe-Notify" scenarios | Huawei, Hisilicon,Nokia, Nokia Shanghai Bell | approved | S3-210416 | - |
| S3-210654 | Draft TR33.839 0.4.0 | Huawei, Hisilicon | approved | - | - |
| S3-210655 | New Solution for UPIP for EPS | Huawei, HiSilicon | approved | S3-210225 | - |
| S3-210656 | Analysis for UC3S | Huawei, HiSilicon | noted | S3-210228 | - |
| S3-210657 | New Solution on Authentication for UE onboarding for SNPN | Huawei, HiSilicon | approved | S3-210231 | - |
| S3-210658 | Solution Update for Solution #5 | Huawei, HiSilicon | approved | S3-210232 | - |
| S3-210659 | Address Editor's Note in solution 15 | Huawei, HiSilicon | approved | S3-210244 | - |
| S3-210660 | A solution to protect PDU session related parameters for L2 relay | Huawei, HiSilicon | approved | S3-210245 | - |
| S3-210661 | Propose to resolve ENs in the clause of KI detail of KI#12 | Huawei, HiSilicon | withdrawn | - | - |
| S3-210662 | Mitigate the conflict between policies using match report | Huawei, HiSilicon | approved | S3-210248 | - |
| S3-210663 | Mitigate the conflict between policies using restricted discovery | Huawei, HiSilicon | approved | S3-210249 | - |
| S3-210664 | Evaluation on Solution#3 | Huawei, HiSilicon | approved | S3-210256 | - |
| S3-210665 | Evaluation on Solution#4 | Huawei, HiSilicon | approved | S3-210257 | - |
| S3-210666 | updating the scope in TR33.824 | Huawei, HiSilicon | approved | S3-210284 | - |
| S3-210667 | New solution for traffic protection in service layer | Huawei, HiSilicon | approved | S3-210288 | - |
| S3-210668 | Add evaluation to solution 1 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | approved | S3-210291 | - |
| S3-210669 | Add evaluation to solution 3 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | approved | S3-210292 | - |
| S3-210670 | Draft TR 33.850 | Huawei, Hisilicon | approved | S3-210640 | - |
| S3-210671 | Draft TR 33.867 | Huawei,Hisilicon | approved | - | - |
| S3-210672 | Addressing the EN on solution2 | Huawei, HiSilicon | approved | S3-210287 | - |
| S3-210673 | draft TR 33.862 0.3.0 | china mobile | approved | - | - |
| S3-210674 | pCR to TR33.847- New solution on L3 UE-to-Network Relay | CATT | approved | S3-210281 | - |
| S3-210675 | pCR to TR33.847- New solution on UE-to-Network Relay based on primary authentication | CATT | approved | S3-210296 | - |
| S3-210676 | Draft TR 33.847 v0.4.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS | CATT | approved | - | - |
| S3-210677 | Remove the EN in solution #5 | CATT | approved | S3-210183 | - |
| S3-210678 | Remove EN in Solution #6 in TR 33.839 | CATT | approved | S3-210185 | - |
| S3-210679 | Key issue on security of data via Messaging Framework | Ericsson, CATT | approved | S3-210498 | - |
| S3-210680 | Address Editor's Note in solution 14 | Huawei Technologies (Korea) | approved | S3-210261 | - |
| S3-210681 | draft TR 33.866 0.3.0 | china mobile | approved | - | - |
| S3-210682 | Evaluation of Solution #7 | Lenovo, Motorola Mobility | approved | S3-210505 | - |
| S3-210683 | Resolving EN in Clause 4.3 Architecture and Security Assumptions | Lenovo, Motorola Mobility | approved | S3-210531 | - |
| S3-210684 | Update to Solution#4 on enabling security during AMF reallocation via RAN | Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell | approved | S3-210533 | - |
| S3-210685 | Solution to ensure system availability for indirect AMF reallocation | Lenovo, Motorola Mobility | approved | S3-210534 | - |
| S3-210686 | Updates to Key Issue #7 | Lenovo, Motorola Mobility, Interdigital, Huawei, HiSilicon | approved | S3-210535 | - |
| S3-210687 | Update to Solution #7 | Lenovo, Motorola Mobility | approved | S3-210537 | - |
| S3-210688 | Solution on UAV and UAV-C Pairing Authorization | Lenovo, Motorola Mobility | approved | S3-210538 | - |
| S3-210689 | Reply-LS on user consent requirements for analytics | NTT DOCOMO INC. | approved | - | - |
| S3-210690 | Addition to support key update in Solution 1 | Philips International B.V. | approved | S3-210463 | - |
| S3-210691 | MEC-Evaluation on solution#1 | Apple | withdrawn | - | - |
| S3-210692 | MEC-Modification on solution#22 | Apple | approved | S3-210217 | - |
| S3-210693 | MBS-Modification on solution#1 | Apple | approved | S3-210215 | - |
| S3-210694 | MUSIM-key issue on BUSY indication | Apple | approved | S3-210213 | - |
| S3-210695 | TR 33.854 v0.4.0 | Qualcomm Incoporated | approved | S3-203467 | - |
| S3-210696 | IAB draft TR 33.824 v 0.8.0 | Samsung | approved | - | - |
| S3-210697 | TR 33875-010 FS\_eSBA\_SEC | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210698 | TR\_33.851-040\_IIoT\_Sec | Nokia, Nokia Shanghai Bell | approved | - | - |
| S3-210699 | LS on authorization for Indirect Communication and Delegated Discovery | Huawei, HiSilicon | noted | - | - |
| S3-210700 | pCR to UP IP draft CR to TS 33.501 | Qualcomm Incorporated, Huawei, HiSilicon | approved | S3-210491 | - |
| S3-210701 | Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options | Qualcomm Incorporated | approved | S3-210490 | - |
| S3-210702 | Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options | Qualcomm Incorporated | withdrawn | - | - |
| S3-210703 | Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options | Qualcomm Incorporated | agreed | - | - |
| S3-210704 | Adding details to provisioning key issue | Ericsson, China Mobile, Huawei, InterDigital, Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell, Philips, Samsung, ZTE | approved | S3-210402 | - |
| S3-210705 | TS 33.536 - overall clean-up | LG Electronics Inc. | agreed | S3-210066 | - |
| S3-210706 | LS on Reply LS on Storage of KAUSF from CT1 | Samsung | approved | S3-210459 | - |
| S3-210707 | CR for correction in SEAL | Samsung | agreed | S3-210451 | - |
| S3-210708 | Conclusions for TR 33.845 | Ericsson | approved | S3-210464 | - |
| S3-210709 | New Solution: Protection of SQN during storage in UDR | KPN N.V. | approved | S3-210040 | - |
| S3-210710 | New solution for KI#9 | NCSC | withdrawn | - | - |
| S3-210711 | New Solution: Protection of TUAK TOPc value during storage in UDR | KPN N.V. | withdrawn | - | - |
| S3-210712 | New Solution: Protection of TUAK TOPc value during storage in UDR | KPN N.V. | approved | S3-210042 | - |
| S3-210713 | New Solution: Protection of TUAK TOPc value during transfer out of UDR | KPN N.V. | approved | S3-210043 | - |
| S3-210714 | Updated Solution #8: Encrypted transfer of OPc between UDR and UDM/ARPF | KPN N.V. | approved | S3-210044 | - |
| S3-210715 | New solution for KI#9 | NCSC | approved | S3-210083 | - |
| S3-210716 | Updated Solution #9: Encrypted transfer of OP between UDR and UDM/ARPF | KPN N.V. | approved | S3-210045 | - |
| S3-210717 | Updated Solution #10: Encrypted strorage of OPc in UDR | KPN N.V. | approved | S3-210046 | - |
| S3-210718 | Updated Solution #11: Encrypted storage of OP in UDR | KPN N.V. | approved | S3-210047 | - |
| S3-210719 | Process and agenda presentation for SA3#102e | WG chair | noted | - | - |
| S3-210720 | Cover sheet for TR 33.845 - presentation for information | VODAFONE Group Plc | approved | - | - |
| S3-210721 | TR 33.845 v0.7.0 | VODAFONE Group Plc | approved | - | - |
| S3-210722 | New WID on normative changes for User Plane Integrity Protection for LTE options | VODAFONE Group Plc | agreed | S3-210544 | - |
| S3-210723 | Resolving editor's note on encryption policy mismatch between SEPPs | NTT Docomo, Nokia, Nokia Shanghai Bell | agreed | S3-210074 | - |
| S3-210724 | Resolving editor's note on encryption policy mismatch between SEPPs | NTT Docomo, Nokia, Nokia Shanghai Bell | agreed | S3-210075 | - |
| S3-210725 | NF Service Consumer and Producer in Service Request Process | Nokia, Nokia Shanghai Bell | agreed | S3-210096 | - |
| S3-210726 | NF Service Consumer and Producer in Service Request Process | Nokia, Nokia Shanghai Bell | agreed | S3-210098 | - |
| S3-210727 | Access Token Misuse Prevention | Nokia, Nokia Shanghai Bell, CableLabs, Mavenir | agreed | S3-210097 | - |
| S3-210728 | Access Token Misuse Prevention | Nokia, Nokia Shanghai Bell, CableLabs, Mavenir | agreed | S3-210099 | - |
| S3-210729 | SCAS Protection Policies - TBD updated | Nokia, Nokia Shanghai Bell | agreed | S3-210100 | - |
| S3-210730 | Protection policies test case | Nokia, Nokia Shanghai Bell, NTT Docomo, Huawei, HiSilicon | agreed | S3-210101 | - |
| S3-210731 | KI on linkability by SUCI | Nokia, Nokia Shanghai Bell | approved | S3-210329 | - |
| S3-210732 | Editorial changes to TR | Nokia, Nokia Shanghai Bell | approved | S3-210335 | - |
| S3-210733 | SQNms protection by concealment in ME | Nokia, Nokia Shanghai Bell | approved | S3-210336 | - |
| S3-210734 | TR 33.848 v0.6.0 | BT plc | approved | - | - |
| S3-210735 | Correction to the access token storage in NF service consumer | Huawei, HiSilicon | agreed | S3-210239 | - |
| S3-210736 | Correction to the access token storage in NF service consumer | Huawei, HiSilicon | agreed | S3-210240 | - |
| S3-210737 | Clarification on key derivation | Huawei, HiSilicon | agreed | S3-210250 | - |
| S3-210738 | Reply LS about the layer to provide security | Huawei, HiSilicon | approved | S3-210251 | - |
| S3-210739 | Clarification on A-KID generation | Huawei, HiSilicon | agreed | S3-210253 | - |
| S3-210740 | Living document for TS 33.512 | Huawei, HiSilicon | approved | S3-210264 | - |
| S3-210741 | Living document for TR 33.926 | Huawei, HiSilicon | approved | S3-210268 | - |
| S3-210742 | new solution to mitigate supi guessing and suci replay attack | Huawei, HiSilicon | approved | S3-210282 | - |
| S3-210743 | Clarification on security protection in AMF reallocation(direct NAS reroute) | Huawei, HiSilicon | agreed | S3-210294 | - |
| S3-210744 | Draft 33.326 | Huawei, HiSilicon | approved | - | - |
| S3-210745 | Clarification on confidential IEs replacement handling in original N32-f message | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-210378 | - |
| S3-210746 | Clarification on exposure of confidential IEs in N32-f message in TR 33.926 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-210379 | - |
| S3-210747 | Resolving the EN on the authorization between SCPs | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-210381 | - |
| S3-210748 | Align the JSON format on encryption IE with CT4 in Rel15 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-210382 | - |
| S3-210749 | Mirror: align the JSON format on encryption IE with CT4 in Rel16 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-210383 | - |
| S3-210750 | Mirror: align the JSON format on encryption IE with CT4 in Rel17 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-210384 | - |
| S3-210751 | Mirror Adding the security requirement with encBlockIndex in Rel16 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-210386 | - |
| S3-210752 | Mirror Adding the security requirement with encBlockIndex in Rel17 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-210387 | - |
| S3-210753 | IMS SCAS: living doc for the threats | Huawei, HiSilicon | withdrawn | - | - |
| S3-210754 | Draft TS 33.226 0.4.0 | Huawei, HiSilicon | approved | - | - |
| S3-210755 | SCAS IPUPS: Add a new test | Huawei, Hisilicon,ZTE Corporation | approved | S3-210360 | - |
| S3-210756 | Reply LS on FBS detection | Huawei, HiSilicon | approved | S3-210194 | - |
| S3-210757 | R17 SID on enhanced security for Phase 2 network slicing | Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT, China Unicom, China Mobile, InterDigital, NEC, Telecom Italia | agreed | S3-210539 | - |
| S3-210758 | Draft TR 33.846 v0.10.0 Study on authentication enhancements in the 5G System (5GS) | Ericsson Japan K.K. | approved | - | - |
| S3-210759 | 5G GUTI re-allocation | Qualcomm Incorporated, Huawei, Hisilicon | agreed | S3-210480 | - |
| S3-210760 | AAnF checks AKMA service for UE and AF in clause 6.3 | ZTE Corporation | agreed | S3-210151 | - |
| S3-210761 | AAnF selection in AF | ZTE Corporation | agreed | S3-210152 | - |
| S3-210762 | Add Application Key Get service in clause 7.1 | ZTE Corporation | agreed | S3-210153 | - |
| S3-210763 | the KAF lifetime expiration in clause 5.2 | ZTE Corporation | agreed | S3-210156 | - |
| S3-210764 | Update the clause 5.2.5.5.7 | ZTE Corporation, China Mobile | approved | S3-210160 | - |
| S3-210765 | Adding a new threat related with biding down attack in the threats | China Telecom, Huawei, HiSilicon | withdrawn | - | - |
| S3-210766 | New solution for key issue# 4.1 in TR 33.846 | ZTE Corporation | approved | S3-210162 | - |
| S3-210767 | Update solution#2.1 in TR 33.846 | ZTE Corporation | approved | S3-210164 | - |
| S3-210768 | Adding a new threat related with biding down attack in the threats | China Telecom, Huawei, HiSilicon | approved | - | - |
| S3-210769 | Solution of Mitigation against the SUPI replay attack | ZTE Corporation | approved | S3-210163 | - |
| S3-210770 | Clarifying the scope | China Mobile | approved | S3-210303 | - |
| S3-210771 | Clarifying for types of virtualised network product class | China Mobile | approved | S3-210304 | - |
| S3-210772 | Clarifying for Generic assets and threats for GVNP of type 1 | China Mobile | approved | S3-210306 | - |
| S3-210773 | clarifying the content in clause 5.2.5.6.6.1 and clause 5.2.5.6.7 | China Mobile | approved | S3-210310 | - |
| S3-210774 | TR 33.818 v0.a.0 | China Mobile Com. Corporation | approved | - | - |
| S3-210775 | living document to TR 33.926 for NWDAF SCAS | China Mobile Com. Corporation | approved | - | - |
| S3-210776 | TS 33.521 v0.3.0 | China Mobile Com. Corporation | approved | - | - |
| S3-210777 | TS 33.520 Security Assurance Specification for Non-3GPP InterWorking Function | China Unicom | approved | - | - |
| S3-210778 | draft TR of TR 33.809-5GFBS | Apple | approved | - | - |
| S3-210779 | TR 33.846: comparison of candidate solutions | THALES | approved | S3-210517 | - |
| S3-210780 | draft TR 33.857 v0.4.0 | Ericsson | approved | - | - |
| S3-210781 | New WID on 3GPP profiles for cryptographic algorithms and security protocols | Ericsson | agreed | S3-210499 | - |
| S3-210782 | Correcting notation used for inter-AMF mobility key derivation | MediaTek Inc. | agreed | S3-210415 | - |
| S3-210783 | Clarifications on Cryptographic CRC in MAC to avoid MitM relay nodes | Philips International B.V. | approved | S3-210131 | - |
| S3-210784 | Clarifications in Solution #24 | Philips International B.V., CableLabs, Nokia, Nokia Shanghai Bell | approved | S3-210132 | - |
| S3-210785 | Correcting notation used for inter-AMF mobility key derivation | MediaTek Inc. / Marko | agreed | - | - |
| S3-210786 | Correct NAS uplink COUNT for KgNB/KeNB derivation | MediaTek Inc. / Marko | agreed | - | - |
| S3-210787 | Correct current uplink EPS NAS COUNT used at derivation of a mapped 5G security context | MediaTek Inc. / Marko | agreed | S3-210326 | - |
| S3-210788 | Correct current uplink EPS NAS COUNT used at derivation of a mapped 5G security context | MediaTek Inc. / Marko | agreed | - | - |
| S3-210789 | 5G GUTI re-allocation | Qualcomm Incorporated | agreed | - | - |
| S3-210790 | 5G CIoT K\_NG-RAN derivation | Qualcomm Incorporated | agreed | - | - |
| S3-210791 | Reply-LS on Support of L2TP on SGi/N6 with Control and User Plane Separation | Ericsson | approved | - | - |
| S3-210792 | Resolving editor's note on encryption policy mismatch between SEPPs | NTT DOCOMO INC., Nokia, Nokia Shanghai Bell | agreed | S3-210545 | - |
| S3-210793 | Correction to service request process in OAuth 2.0 based authorization rel16 | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | revised | S3-210241 | S3-210798 |
| S3-210794 | Correction to service request process in OAuth 2.0 based authorization rel17 | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | revised | S3-210242 | S3-210797 |
| S3-210795 | gNB Cipher Security Policy Verification | Futurewei | agreed | S3-210090 | - |
| S3-210796 | gNB Integrity Security Policy Verification | Futurewei | agreed | S3-210091 | - |
| S3-210797 | Correction to service request process in OAuth 2.0 based authorization rel17 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-210794 | - |
| S3-210798 | Correction to service request process in OAuth 2.0 based authorization rel16 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | agreed | S3-210793 | - |
| S3-210799 | Mirror\_Clarification on security protection in AMF reallocation | Huawei, HiSilicon | agreed | - | - |
| S3-210800 | Reply-LS on security issue for on-boarding and remote provisioning. | Nokia, Nokia Shanghai Bell | approved | S3-210137 | - |
| S3-210801 | Solution for protecting the privacy of the UE identity. | Nokia, Nokia Shanghai Bell | approved | S3-210136 | - |
| S3-210802 | Check whether the N3IWF sends the EAP-Identity Request message | China Unicom | approved | S3-210222 | - |
| S3-210803 | Threat to send EAP-Identity Request by N3IWF | China Unicom | withdrawn | - | - |
| S3-210804 | Clarifications regarding Authentication procedure for V2X PC5 unicast link | Nokia, Nokia Shanghai Bell | agreed | S3-210135 | - |
| S3-210805 | Threat to send EAP-Identity Request by N3IWF | China Unicom | agreed | S3-210221 | - |

### A2: Tdoc decision timing

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| --- | --- | --- |
| Document | Date/time UTC | Decision |

## Annex B: List of change requests

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Document | Title | Source | Spec | CR | Rev | Rel | Cat | WI | Decision |
| S3-210049 | Limited service state for missioncritical services | BDBOS | 33.180 | 0153 | - | Rel-17 | C | MCXSec2 | not pursued |
| S3-210052 | [33.180] R17 Group regroup and user regroup security | Motorola Solutions Danmark A/S | 33.180 | 0154 | - | Rel-17 | B | MCXSec2 | not pursued |
| S3-210053 | [33.180] R14 RFC3830 reference correction | Motorola Solutions Danmark A/S | 33.180 | 0155 | - | Rel-14 | F | MCSec | agreed |
| S3-210054 | [33.180] R15 RFC3830 reference correction (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0156 | - | Rel-15 | A | MCSec | agreed |
| S3-210055 | [33.180] R16 RFC3830 reference correction (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0157 | - | Rel-16 | A | MCSec | agreed |
| S3-210056 | [33.180] R17 RFC3830 reference correction (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0158 | - | Rel-17 | A | MCSec | agreed |
| S3-210057 | [33.180] R14 XML encryption correction | Motorola Solutions Danmark A/S | 33.180 | 0159 | - | Rel-14 | F | MCSec | agreed |
| S3-210058 | [33.180] R15 XML encryption correction (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0160 | - | Rel-15 | A | MCSec | agreed |
| S3-210059 | [33.180] R16 XML encryption correction (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0161 | - | Rel-16 | A | MCSec | agreed |
| S3-210060 | [33.180] R17 XML encryption correction (mirror) | Motorola Solutions Danmark A/S | 33.180 | 0162 | - | Rel-17 | A | MCSec | agreed |
| S3-210478 | Adding references to AKMA profiles of Ua protocols | Qualcomm Incorporated | 33.222 | 0053 | - | Rel-17 | B | DUMMY | not pursued |
| S3-210347 | Clarification on the format of NF type in the NF certification | Huawei, Hisilicon | 33.310 | 0117 | - | Rel-16 | F | 5G\_eSBA | agreed |
| S3-210451 | CR for correction in SEAL | Samsung | 33.434 | 0003 | - | Rel-16 | F | SEAL | revised |
| S3-210707 | CR for correction in SEAL | Samsung | 33.434 | 0003 | 1 | Rel-16 | F | SEAL | agreed |
| S3-210702 | Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options | Qualcomm Incorporated | 33.501 | - | - | Rel-17 | B | eUPIP\_SEC | withdrawn |
| S3-210065 | Error code details - Resolving ed note in 13.2.2.6 | Nokia, Nokia Shanghai Bell | 33.501 | 0902 | 1 | Rel-15 | F | 5G\_eSBA | withdrawn |
| S3-210074 | Error code details - Resolving ed note in 13.2.2.6 | Nokia, Nokia Shanghai Bell | 33.501 | 0902 | 2 | Rel-16 | F | 5G\_eSBA | revised |
| S3-210723 | Resolving editor's note on encryption policy mismatch between SEPPs | NTT Docomo, Nokia, Nokia Shanghai Bell | 33.501 | 0902 | 3 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-210073 | Correct NAS uplink COUNT for KgNB/KeNB derivation | MediaTek Inc. | 33.501 | 0962 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-210415 | Correcting notation used for inter-AMF mobility key derivation | MediaTek Inc. | 33.501 | 0963 | 1 | Rel-16 | F | TEI16 | revised |
| S3-210782 | Correcting notation used for inter-AMF mobility key derivation | MediaTek Inc. | 33.501 | 0963 | 2 | Rel-16 | F | TEI16 | agreed |
| S3-210075 | Error code details - Resolving ed note in 13.2.2.6 | Nokia, Nokia Shanghai Bell | 33.501 | 1019 | - | Rel-17 | A | 5G\_eSBA | revised |
| S3-210724 | Resolving editor's note on encryption policy mismatch between SEPPs | NTT Docomo, Nokia, Nokia Shanghai Bell | 33.501 | 1019 | 1 | Rel-17 | A | 5GS\_Ph1-SEC | agreed |
| S3-210096 | NF Service Consumer and Producer in Service Request Process | Nokia, Nokia Shanghai Bell | 33.501 | 1020 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-210725 | NF Service Consumer and Producer in Service Request Process | Nokia, Nokia Shanghai Bell | 33.501 | 1020 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-210097 | Access Token Misuse Prevention | Nokia, Nokia Shanghai Bell | 33.501 | 1021 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-210727 | Access Token Misuse Prevention | Nokia, Nokia Shanghai Bell, CableLabs, Mavenir | 33.501 | 1021 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-210098 | NF Service Consumer and Producer in Service Request Process | Nokia, Nokia Shanghai Bell | 33.501 | 1022 | - | Rel-17 | A | 5G\_eSBA | revised |
| S3-210726 | NF Service Consumer and Producer in Service Request Process | Nokia, Nokia Shanghai Bell | 33.501 | 1022 | 1 | Rel-17 | A | 5G\_eSBA | agreed |
| S3-210099 | Access Token Misuse Prevention | Nokia, Nokia Shanghai Bell | 33.501 | 1023 | - | Rel-17 | A | 5G\_eSBA | revised |
| S3-210728 | Access Token Misuse Prevention | Nokia, Nokia Shanghai Bell, CableLabs, Mavenir | 33.501 | 1023 | 1 | Rel-17 | A | 5G\_eSBA | agreed |
| S3-210102 | Optional registration of NF Service Consumer to NRF | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | 33.501 | 1024 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-210103 | Optional registration of NF Service Consumer to NRF | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | 33.501 | 1025 | - | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-210104 | Optional registration of NF Service Consumer to NRF | Nokia, Nokia Shanghai Bell, Huawei, HiSilicon | 33.501 | 1026 | - | Rel-17 | A | 5GS\_Ph1-SEC | not pursued |
| S3-210139 | CR to delete the EN (rel-16) in NSSAA clause | Nokia | 33.501 | 1027 | - | Rel-16 | F | eNS | not pursued |
| S3-210140 | CR to dete the NSSAA Editor Note (Rel-17) | Nokia | 33.501 | 1028 | - | Rel-17 | A | eNS | not pursued |
| S3-210141 | Authentication procedure during Xn handover procedure | NEC | 33.501 | 1029 | - | Rel-16 | F | TEI16 | not pursued |
| S3-210146 | Maintaining latest Kausf | NEC | 33.501 | 1030 | - | Rel-16 | F | TEI16 | not pursued |
| S3-210198 | Serving network ID in NSSAA | Huawei, HiSilicon | 33.501 | 1031 | - | Rel-16 | F | eNS | not pursued |
| S3-210199 | validity peirod of NSSAA result | Huawei, HiSilicon | 33.501 | 1032 | - | Rel-16 | F | eNS | not pursued |
| S3-210238 | Correction to the access token storage in NF service consumer | Huawei, HiSilicon | 33.501 | 1033 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-210239 | Correction to the access token storage in NF service consumer | Huawei, HiSilicon | 33.501 | 1034 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-210735 | Correction to the access token storage in NF service consumer | Huawei, HiSilicon | 33.501 | 1034 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-210240 | Correction to the access token storage in NF service consumer | Huawei, HiSilicon | 33.501 | 1035 | - | Rel-17 | A | 5GS\_Ph1-SEC | revised |
| S3-210736 | Correction to the access token storage in NF service consumer | Huawei, HiSilicon | 33.501 | 1035 | 1 | Rel-17 | A | TEI16 | agreed |
| S3-210241 | Correction to service request process in OAuth 2.0 based authorization rel16 | Huawei, HiSilicon | 33.501 | 1036 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-210793 | Correction to service request process in OAuth 2.0 based authorization rel16 | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1036 | 1 | Rel-16 | F | 5G\_eSBA | revised |
| S3-210798 | Correction to service request process in OAuth 2.0 based authorization rel16 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1036 | 2 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-210242 | Correction to service request process in OAuth 2.0 based authorization rel17 | Huawei, HiSilicon | 33.501 | 1037 | - | Rel-17 | A | 5G\_eSBA | revised |
| S3-210794 | Correction to service request process in OAuth 2.0 based authorization rel17 | Huawei, Hisilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1037 | 1 | Rel-17 | A | 5G\_eSBA | revised |
| S3-210797 | Correction to service request process in OAuth 2.0 based authorization rel17 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1037 | 2 | Rel-17 | A | 5G\_eSBA | agreed |
| S3-210243 | Slice privacy protection in NSSAA related procedure | Huawei, HiSilicon | 33.501 | 1038 | - | Rel-16 | F | eNS | not pursued |
| S3-210279 | Authentication procedure during Xn handover procedure | NEC | 33.501 | 1039 | - | Rel-17 | A | TEI16 | not pursued |
| S3-210294 | Clarification on security protection in AMF reallocation(direct NAS reroute) | Huawei, HiSilicon | 33.501 | 1040 | - | Rel-16 | F | 5GS\_Ph1-SEC | revised |
| S3-210743 | Clarification on security protection in AMF reallocation(direct NAS reroute) | Huawei, HiSilicon | 33.501 | 1040 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-210326 | Correct current uplink EPS NAS COUNT used at derivation of a mapped 5G security context | MediaTek Inc. | 33.501 | 1041 | - | Rel-16 | F | TEI16 | revised |
| S3-210787 | Correct current uplink EPS NAS COUNT used at derivation of a mapped 5G security context | MediaTek Inc. / Marko | 33.501 | 1041 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-210339 | Typo correction in clause 6.9.9.4 | Xidian University | 33.501 | 1042 | - | Rel-17 | A | 5GS\_Ph1-SEC | not pursued |
| S3-210342 | Authentication method selection for N5CW | Ericsson,Lenovo, Motorola Mobility, Cablelabs,Samsung | 33.501 | 1043 | - | Rel-16 | F | 5WWC | agreed |
| S3-210345 | Authentication method selection for N5CW | Ericsson,Lenovo, Motorola Mobility, Cablelabs,Samsung | 33.501 | 1044 | - | Rel-17 | A | 5WWC | agreed |
| S3-210381 | Resolving the EN on the authorization between SCPs | Huawei, HiSilicon | 33.501 | 1045 | - | Rel-16 | F | 5G\_eSBA | revised |
| S3-210747 | Resolving the EN on the authorization between SCPs | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1045 | 1 | Rel-16 | F | 5G\_eSBA | agreed |
| S3-210382 | Align the JSON format on encryption IE with CT4 in Rel15 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1046 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-210748 | Align the JSON format on encryption IE with CT4 in Rel15 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1046 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-210383 | Mirror: align the JSON format on encryption IE with CT4 in Rel16 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1047 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-210749 | Mirror: align the JSON format on encryption IE with CT4 in Rel16 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1047 | 1 | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-210384 | Mirror: align the JSON format on encryption IE with CT4 in Rel17 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1048 | - | Rel-17 | A | 5GS\_Ph1-SEC | revised |
| S3-210750 | Mirror: align the JSON format on encryption IE with CT4 in Rel17 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1048 | 1 | Rel-17 | A | 5GS\_Ph1-SEC | agreed |
| S3-210385 | Adding the security requirement with encBlockIndex in Rel15 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1049 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-210386 | Mirror Adding the security requirement with encBlockIndex in Rel16 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1050 | - | Rel-16 | A | 5GS\_Ph1-SEC | revised |
| S3-210751 | Mirror Adding the security requirement with encBlockIndex in Rel16 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1050 | 1 | Rel-16 | F | TEI16 | agreed |
| S3-210387 | Mirror Adding the security requirement with encBlockIndex in Rel17 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1051 | - | Rel-17 | A | 5GS\_Ph1-SEC | revised |
| S3-210752 | Mirror Adding the security requirement with encBlockIndex in Rel17 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.501 | 1051 | 1 | Rel-17 | A | TEI16 | agreed |
| S3-210395 | Clarification on PLMN ID verification in Rel15 | Huawei, HiSilicon | 33.501 | 1052 | - | Rel-15 | F | 5GS\_Ph1-SEC | not pursued |
| S3-210396 | Clarification on PLMN ID verification in Rel16 | Huawei, HiSilicon | 33.501 | 1053 | - | Rel-16 | A | 5GS\_Ph1-SEC | not pursued |
| S3-210411 | Corrections for the NRF token request service | Ericsson | 33.501 | 1054 | - | Rel-16 | F | 5G\_eSBA | agreed |
| S3-210412 | Corrections for the NRF token request service | Ericsson | 33.501 | 1055 | - | Rel-17 | A | 5G\_eSBA | agreed |
| S3-210445 | Correction to FC values in range for future use in 3GPP specifications | Samsung | 33.501 | 1056 | - | Rel-17 | F | TEI17 | agreed |
| S3-210450 | CR for identification of MitM attack | Samsung | 33.501 | 1057 | - | Rel-16 | F | TEI16 | not pursued |
| S3-210452 | CR to correct figure 7A.2.4-1 | Samsung | 33.501 | 1058 | - | Rel-17 | A | TEI16 | not pursued |
| S3-210453 | CR to correct figure 7A.2.4-1 | Samsung | 33.501 | 1059 | - | Rel-16 | F | TEI16 | not pursued |
| S3-210460 | Handling of KAUSF upon successful primary authentication | Samsung, Nokia, Nokia Shanghai Bell, Intel | 33.501 | 1060 | - | Rel-16 | F | TEI16 | not pursued |
| S3-210467 | Typo correction in clause 6.9.9.4 | Xidian University | 33.501 | 1061 | - | Rel-16 | A | 5GS\_Ph1-SEC | withdrawn |
| S3-210480 | 5G GUTI re-allocation | Qualcomm Incorporated, Huawei, Hisilicon | 33.501 | 1062 | - | Rel-16 | F | 5G\_CIoT | revised |
| S3-210759 | 5G GUTI re-allocation | Qualcomm Incorporated, Huawei, Hisilicon | 33.501 | 1062 | 1 | Rel-16 | F | 5G\_CIoT | agreed |
| S3-210481 | 5G CIoT K\_NG-RAN derivation | Qualcomm Incorporated | 33.501 | 1063 | - | Rel-16 | F | 5G\_CIoT | agreed |
| S3-210532 | Typo correction in clause 6.9.4.4 | Xidian University | 33.501 | 1064 | - | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-210545 | resolving ed note on protection policy mismatch | NTT DOCOMO INC. | 33.501 | 1065 | - | Rel-15 | F | 5GS\_Ph1-SEC | revised |
| S3-210792 | Resolving editor's note on encryption policy mismatch between SEPPs | NTT DOCOMO INC., Nokia, Nokia Shanghai Bell | 33.501 | 1065 | 1 | Rel-15 | F | 5GS\_Ph1-SEC | agreed |
| S3-210546 | Typo correction in clause 6.9.4.4 | Xidian University | 33.501 | 1066 | - | Rel-16 | A | 5GS\_Ph1-SEC | withdrawn |
| S3-210547 | Typo correction in clause 6.9.4.4 | Xidian University | 33.501 | 1067 | - | Rel-16 | A | 5GS\_Ph1-SEC | withdrawn |
| S3-210548 | Typo correction in clause 6.9.4.4 | Xidian University | 33.501 | 1068 | - | Rel-16 | A | 5GS\_Ph1-SEC | withdrawn |
| S3-210549 | Typo correction in clause 6.9.4.4 | Xidian University | 33.501 | 1069 | - | Rel-16 | A | 5GS\_Ph1-SEC | withdrawn |
| S3-210550 | Typo correction in clause 6.9.4.4 | Xidian University | 33.501 | 1070 | - | Rel-16 | A | 5GS\_Ph1-SEC | agreed |
| S3-210551 | resolving ed note on protection policy mismatch | NTT DOCOMO INC. | 33.501 | 1071 | - | Rel-16 | A | 5GS\_Ph1-SEC | merged |
| S3-210552 | resolving ed note on protection policy mismatch | NTT DOCOMO INC. | 33.501 | 1072 | - | Rel-17 | A | 5GS\_Ph1-SEC | merged |
| S3-210703 | Extend UPIP support in 5GS for all 5GC connected RAN architecture (NG-RAN) options | Qualcomm Incorporated | 33.501 | 1073 | - | Rel-17 | B | eUPIP\_SEC | agreed |
| S3-210785 | Correcting notation used for inter-AMF mobility key derivation | MediaTek Inc. / Marko | 33.501 | 1074 | - | Rel-17 | A | TEI16 | agreed |
| S3-210786 | Correct NAS uplink COUNT for KgNB/KeNB derivation | MediaTek Inc. / Marko | 33.501 | 1075 | - | Rel-17 | A | TEI16 | agreed |
| S3-210788 | Correct current uplink EPS NAS COUNT used at derivation of a mapped 5G security context | MediaTek Inc. / Marko | 33.501 | 1076 | - | Rel-17 | A | TEI16 | agreed |
| S3-210789 | 5G GUTI re-allocation | Qualcomm Incorporated | 33.501 | 1077 | - | Rel-17 | A | 5G\_CIoT | agreed |
| S3-210790 | 5G CIoT K\_NG-RAN derivation | Qualcomm Incorporated | 33.501 | 1078 | - | Rel-17 | A | 5G\_CIoT | agreed |
| S3-210799 | Mirror\_Clarification on security protection in AMF reallocation | Huawei, HiSilicon | 33.501 | 1079 | - | Rel-17 | A | TEI16 | agreed |
| S3-210090 | gNB Cipher Security Policy Verification | Futurewei | 33.511 | 0019 | - | Rel-16 | F | SCAS\_5G | revised |
| S3-210795 | gNB Cipher Security Policy Verification | Futurewei | 33.511 | 0019 | 1 | Rel-16 | F | SCAS\_5G | agreed |
| S3-210091 | gNB Integrity Security Policy Verification | Futurewei | 33.511 | 0020 | - | Rel-16 | F | SCAS\_5G | revised |
| S3-210796 | gNB Integrity Security Policy Verification | Futurewei | 33.511 | 0020 | 1 | Rel-16 | F | SCAS\_5G | agreed |
| S3-210364 | SCAS: Correction of incomplete test cases | Huawei, Hisilicon | 33.512 | 0009 | - | Rel-16 | F | SCAS\_5G | agreed |
| S3-210100 | SCAS Protection Policies - TBD updated | Nokia, Nokia Shanghai Bell | 33.517 | 0005 | - | Rel-16 | F | SCAS\_5G | revised |
| S3-210729 | SCAS Protection Policies - TBD updated | Nokia, Nokia Shanghai Bell | 33.517 | 0005 | 1 | Rel-16 | F | SCAS\_5G | agreed |
| S3-210101 | Protection policies test case | Nokia, Nokia Shanghai Bell, NTT Docomo, Huawei, HiSilicon | 33.517 | 0006 | - | Rel-16 | F | SCAS\_5G | revised |
| S3-210730 | Protection policies test case | Nokia, Nokia Shanghai Bell, NTT Docomo, Huawei, HiSilicon | 33.517 | 0006 | 1 | Rel-16 | F | SCAS\_5G | agreed |
| S3-210378 | Clarification on confidential IEs replacement handling in original N32-f message | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.517 | 0007 | - | Rel-16 | F | SCAS\_5G | revised |
| S3-210745 | Clarification on confidential IEs replacement handling in original N32-f message | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.517 | 0007 | 1 | Rel-16 | F | SCAS\_5G | agreed |
| S3-210489 | Sending UE identifier to the AKMA AF | Qualcomm Incorporated, China Mobile | 33.535 | 0052 | 1 | Rel-17 | F | AKMA | not pursued |
| S3-210151 | AAnF checks AKMA service for UE and AF in clause 6.3 | ZTE Corporation | 33.535 | 0055 | - | Rel-17 | B | AKMA | revised |
| S3-210760 | AAnF checks AKMA service for UE and AF in clause 6.3 | ZTE Corporation | 33.535 | 0055 | 1 | Rel-17 | B | AKMA | agreed |
| S3-210152 | AAnF selection in AF | ZTE Corporation | 33.535 | 0056 | - | Rel-17 | B | AKMA | revised |
| S3-210761 | AAnF selection in AF | ZTE Corporation | 33.535 | 0056 | 1 | Rel-17 | B | AKMA | agreed |
| S3-210153 | Add Application Key Get service in clause 7.1 | ZTE Corporation | 33.535 | 0057 | - | Rel-17 | B | AKMA | revised |
| S3-210762 | Add Application Key Get service in clause 7.1 | ZTE Corporation | 33.535 | 0057 | 1 | Rel-17 | B | AKMA | agreed |
| S3-210154 | Kakma invalid and Kausf invalid in clause 6.2 | ZTE Corporation | 33.535 | 0058 | - | Rel-17 | F | AKMA | not pursued |
| S3-210155 | Resolution of EN on other parameter in clause 6.3 | ZTE Corporation | 33.535 | 0059 | - | Rel-17 | F | AKMA | not pursued |
| S3-210156 | the KAF lifetime expiration in clause 5.2 | ZTE Corporation | 33.535 | 0060 | - | Rel-17 | F | AKMA | revised |
| S3-210763 | the KAF lifetime expiration in clause 5.2 | ZTE Corporation | 33.535 | 0060 | 1 | Rel-17 | F | AKMA | agreed |
| S3-210158 | UDM notifies AAnF AKMA context removal | ZTE Corporation | 33.535 | 0061 | - | Rel-17 | B | AKMA | not pursued |
| S3-210253 | Clarification on A-KID generation | Huawei, HiSilicon | 33.535 | 0062 | - | Rel-17 | F | AKMA | revised |
| S3-210739 | Clarification on A-KID generation | Huawei, HiSilicon | 33.535 | 0062 | 1 | Rel-17 | F | AKMA | agreed |
| S3-210254 | Clarification on AAnF Selection | Huawei, HiSilicon | 33.535 | 0063 | - | Rel-17 | F | AKMA | not pursued |
| S3-210380 | Clarification on a figure and the key activation | Huawei, HiSilicon | 33.535 | 0064 | - | Rel-16 | F | eV2XARC | agreed |
| S3-210447 | Network provides authorization to AF/UE for KAF key refresh | Samsung | 33.535 | 0065 | - | Rel-17 | F | AKMA | not pursued |
| S3-210477 | Profiling the GBA TLS protocols for use with AKMA | Qualcomm Incorporated | 33.535 | 0066 | - | Rel-17 | B | DUMMY | not pursued |
| S3-210496 | UE Sending GPSI (if available) to the AF | Samsung | 33.535 | 0067 | - | Rel-17 | B | AKMA | not pursued |
| S3-210066 | TS 33.536 - overall clean-up | LG Electronics Inc. | 33.536 | 0022 | - | Rel-16 | D | eV2XARC | revised |
| S3-210705 | TS 33.536 - overall clean-up | LG Electronics Inc. | 33.536 | 0022 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-210135 | Clarifications regarding Authentication procedure for V2X PC5 unicast link | Nokia, Nokia Shanghai Bell | 33.536 | 0023 | - | Rel-16 | F | eV2XARC | revised |
| S3-210804 | Clarifications regarding Authentication procedure for V2X PC5 unicast link | Nokia, Nokia Shanghai Bell | 33.536 | 0023 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-210250 | Clarification on key derivation | Huawei, HiSilicon | 33.536 | 0024 | - | Rel-16 | F | eV2XARC | revised |
| S3-210737 | Clarification on key derivation | Huawei, HiSilicon | 33.536 | 0024 | 1 | Rel-16 | F | eV2XARC | agreed |
| S3-210221 | Threat to send EAP-Identity Request by N3IWF | China Unicom | 33.926 | 0037 | - | Rel-17 | B | SCAS\_5G\_N3IWF | revised |
| S3-210805 | Threat to send EAP-Identity Request by N3IWF | China Unicom | 33.926 | 0037 | 1 | Rel-17 | B | SCAS\_5G\_N3IWF | agreed |
| S3-210297 | Adding a new threat related with biding down attack in the threats | China Telecom, Huawei, HiSilicon | 33.926 | 0038 | - | Rel-17 | B | SCAS\_IMS | not pursued |
| S3-210379 | Clarification on exposure of confidential IEs in N32-f message in TR 33.926 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.926 | 0039 | - | Rel-16 | F | SCAS\_5G | revised |
| S3-210746 | Clarification on exposure of confidential IEs in N32-f message in TR 33.926 | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell | 33.926 | 0039 | 1 | Rel-17 | F | SCAS\_5G | agreed |
| S3-210803 | Threat to send EAP-Identity Request by N3IWF | China Unicom | 33.926 | 0040 | - | Rel-17 | B | SCAS-SA3 | withdrawn |

## Annex C: Lists of liaisons

### C1: Incoming liaison statements

| **Tdoc** | **originalLS** | **Title** | **Source** | **Decision** | **ReplyIn** |
| --- | --- | --- | --- | --- | --- |
| S3-210004 |  | AMF transparency for SOR | C1-207736 | postponed |  |
| S3-210005 |  | LS on Storage of KAUSF | C1-207764 | replied to | S3-210706 |
| S3-210006 |  | User location identification from Carrier Aggregation secondary cell activation messages | GSMA FSAG | postponed | S3-210302, S3-210302 |
| S3-210007 |  | LS on broadcasting gNB ID length in system information block | R3-207226 | noted |  |
| S3-210008 |  | Reply LS on MuDe functionality | S1-204380 | noted |  |
| S3-210009 |  | Reply LS on security issue for on-boarding and remote provisioning from SA3 | S2-2009132 | replied to | S3-210800 |
| S3-210010 |  | LS Response on Support of L2TP in PFCP | S2-2009331 | noted |  |
| S3-210011 |  | Reply LS on IP address to GPSI translation | S2-2009339 | postponed |  |
| S3-210012 |  | Reply-LS on user consent requirements for analytics | S2-2009383 | replied to | S3-210689 |
| S3-210013 |  | Independent evaluation of SNOW V | ETSI SAGE | noted |  |
| S3-210014 |  | 256-bit algorithms based on SNOW 3G or SNOW V | ETSI SAGE | postponed |  |
| S3-210015 |  | LS on SG17 new work item 'Security Methodology for Zero-Touch Massive IoT Deployment' | ITU-T SG17 | noted |  |
| S3-210016 |  | LS on Use of Inclusive Language in 3GPP | SP-201143 | noted |  |
| S3-210017 |  | LS on 5G-GUTI reallocation after paging of a UE in 5GMM-IDLE mode with suspend indication | C1-200967 | noted |  |
| S3-210018 |  | Reply LS to SA3 on FBS detection | R2-1914224 | replied to | S3-210756 |
| S3-210019 |  | LS on propagation of user consent related information during Xn inter-PLMN handover | R3-204378 | withdrawn |  |
| S3-210020 |  | LS on Security Requirements for Sidelink/PC5 Relays | S2-2004750 | postponed |  |
| S3-210021 |  | LS on method for collection of data from the UE | S2-2006292 | replied to | S3-210611 |
| S3-210022 |  | Reply to LS on Resynchronisations | ETSI SAGE | postponed |  |
| S3-210023 |  | Reply LS on AUSF/UDM discovery based on SUCI information | S2-2009207 | noted |  |
| S3-210024 |  | LS on Support of L2TP on SGi/N6 with Control and User Plane Separation | C4-205478 | replied to | S3-210791 |
| S3-210025 |  | LS on Changes to SoR Delivery Mechanism | C4-205696 | postponed |  |
| S3-210026 |  | Reply LS on the user consent for trace reporting | R2-2010894 | postponed |  |
| S3-210027 |  | Reply LS on the re-keying procedure for NR SL | R2-2010963 | replied to | S3-210738 |
| S3-210028 |  | LS on propagation of user consent related information during Xn inter-PLMN handover | R3-204378 | postponed | - |
| S3-210029 |  | Reply LS on System support for Multi-USIM devices | R3-207207 | noted |  |
| S3-210030 |  | LS on integrity and confidentiality protection of xcap-diff and pidf documents in MCPTT (TS 24.379) | R5- 206273 | noted |  |
| S3-210031 |  | LS on Security Requirements for Sidelink/PC5 Relays | S2-2004750 | withdrawn |  |
| S3-210032 |  | Reply on method for collection of data from the UE | S4-201584 | noted |  |
| S3-210033 |  | TC CYBER Activities | ETSI TC CYBER | noted |  |
| S3-210095 |  | Choice of cryptographic algorithm in 256-bit Milenage | ETSI SAGE | postponed |  |

## C2: Outgoing liaison statements

| **Tdoc** | **Title** | **To** | **Cc** | **ReplyTo** |
| --- | --- | --- | --- | --- |
| S3-210560 | LS on Feedback on function supporting primary authentication and authorization of SNPN UEs that use credentials from the AAA Server | SA2 | CT1, CT3, CT4 |  |
| S3-210563 | LS on User Plane Integrity Protection for eUTRA connected to EPC | RAN2, RAN3, CT4, SA2 | CT1 |  |
| S3-210596 | LS on conclusion of security study of disaggregated gNB architecture | RAN3 | - |  |
| S3-210611 | Reply LS method for collection of data from the UE | SA2 | SA4 | S3-210021 |
| S3-210689 | Reply-LS on user consent requirements for analytics | SA2 | - | S3-210012 |
| S3-210706 | LS on Reply LS on Storage of KAUSF from CT1 | CT1, CT4 | - | S3-210005 |
| S3-210738 | Reply LS about the layer to provide security | RAN2, CT1 | - | S3-210027 |
| S3-210756 | Reply LS on FBS detection | RAN2 | RAN3 | S3-210018 |
| S3-210791 | Reply-LS on Support of L2TP on SGi/N6 with Control and User Plane Separation | CT4 | SA2, CT3 | S3-210024 |
| S3-210800 | Reply-LS on security issue for on-boarding and remote provisioning. | SA2 | - | S3-210009 |

## Annex D: List of agreed/approved new and revised Work Items

| **Tdoc** | **Title** | **Source** | **Doc-type** |
| --- | --- | --- | --- |
| S3-210757 | R17 SID on enhanced security for Phase 2 network slicing | Huawei, HiSilicon, Lenovo, Motorola Mobility, CableLab, CATT, CAICT, China Unicom, China Mobile, InterDigital, NEC, Telecom Italia | SID new |
| S3-210722 | New WID on normative changes for User Plane Integrity Protection for LTE options | VODAFONE Group Plc | WID new |
| S3-210781 | New WID on 3GPP profiles for cryptographic algorithms and security protocols | Ericsson | WID new |

## Annex E: List of draft Technical Specifications and Reports

| **Tdoc** | **Spec** | **Version-Current** | **Title** |
| --- | --- | --- | --- |
| S3-210568 | 33.853 | 1.4.0 | TR33.853 1.4.0 |
| S3-210620 | 33.864 | 0.3.0 | Draft TR 33.864 v0.3.0 Study on the security of Access and Mobility Management Function (AMF) re-allocation |
| S3-210627 | 33.873 | 0.2.0 | draft TR 33.873 Study on the security of the system enablers for devices having multiple Universal Subscriber Identity Modules 0.2 |
| S3-210654 | 33.839 | 0.4.0 | Draft TR33.839 0.4.0 |
| S3-210670 | 33.850 | 0.4.0 | Draft TR 33.850 |
| S3-210671 | 33.867 | 0.3.0 | Draft TR 33.867 |
| S3-210673 | 33.862 | 0.3.0 | draft TR 33.862 0.3.0 |
| S3-210676 | 33.847 | 0.4.0 | Draft TR 33.847 v0.4.0 Study on Security Aspects of Enhancement for Proximity Based Services in 5GS |
| S3-210681 | 33.866 | 0.3.0 | draft TR 33.866 0.3.0 |
| S3-210695 | 33.854 | 0.4.0 | TR 33.854 v0.4.0 |
| S3-210696 | 33.824 | 0.8.0 | IAB draft TR 33.824 v 0.8.0 |
| S3-210697 | 33.875 | 0.1.0 | TR 33875-010 FS\_eSBA\_SEC |
| S3-210698 | 33.851 | 0.4.0 | TR\_33.851-040\_IIoT\_Sec |
| S3-210721 | 33.845 | 0.7.0 | TR 33.845 v0.7.0 |
| S3-210734 | 33.848 | 0.6.0 | TR 33.848 v0.6.0 |
| S3-210744 | 33.326 | 0.2.0 | Draft 33.326 |
| S3-210754 | 33.226 | 0.4.0 | Draft TS 33.226 0.4.0 |
| S3-210758 | 33.846 | 0.10.0 | Draft TR 33.846 v0.10.0 Study on authentication enhancements in the 5G System (5GS) |
| S3-210774 | 33.818 | 0.10.0 | TR 33.818 v0.a.0 |
| S3-210776 | 33.521 | 0.3.0 | TS 33.521 v0.3.0 |
| S3-210777 | 33.520 | 0.2.0 | TS 33.520 Security Assurance Specification for Non-3GPP InterWorking Function |
| S3-210778 | 33.809 | 0.13.0 | draft TR of TR 33.809-5GFBS |
| S3-210780 | 33.857 | 0.4.0 | draft TR 33.857 v0.4.0 |

## Annex F: List of participants

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TITLE | Family Name | Given Name | Employer Organization | Organization Represented |
| Mr. | Alsterlid | Stefan | Sectra Communications AB | Sectra Communications AB |
| Mr. | Ashton | Tim | National Technical Assistance | National Technical Assistance |
| Prof. | Babbage | Steve | VODAFONE Group Plc | VODAFONE Group Plc |
| Dr. | Baboescu | Florin | BROADCOM CORPORATION | BROADCOM CORPORATION |
| Miss | bai | kunai | TD Tech Ltd | TD Tech Ltd |
| Dr. | Baskaran | Sheeba Backia Mary | Motorola Mobility Germany GmbH | Motorola Mobility Germany GmbH |
| Dr. | Ben Henda | Noamen | Ericsson LM | Ericsson LM |
| Ms. | Bi | Xiaoyu | CATT | CATT |
| Mr. | Bjerrum | Bo Holm | Nokia Corporation | Nokia Corporation |
| Mr. | Brusilovsky | Alec | InterDigital, Inc. | InterDigital, Inc. |
| 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. | Champel | Mary-Luc | Beijing Xiaomi Mobile Software | Beijing Xiaomi Electronics |
| Mr. | Choi | Hongjin | Samsung R&D Institute UK | Samsung Electronics Benelux BV |
| 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 |
| Mr. | Cong | Shi | Guangdong OPPO Mobile Telecom. | Dongguan OPPO Precision Elec. |
| Dr. | Corbett | Cherita | Johns Hopkins University APL | Johns Hopkins University APL |
| Dr. | Cruickshank | Haitham | ICS | ICS |
| Mr. | Dees | Walter | Philips International B.V. | Philips International B.V. |
| Ms. | Deng | Juan | HuaWei Technologies Co., Ltd | HUAWEI Technologies Japan K.K. |
| Miss | Diallo | Sophie | BOUYGUES Telecom | BOUYGUES Telecom |
| Mr. | Dijk | Esko | Philips International B.V. | Philips International B.V. |
| Mr. | Doerr | Johannes | BMWi | BMWi |
| Mr. | Dressler | Christian | ZITiS | ZITiS |
| Mr. | Ennesser | Francois | Huawei Technologies France | Huawei Technologies France |
| Dr. | Escott | Adrian | Qualcomm CDMA Technologies | Qualcomm communications-France |
| Mr. | Evans | Tim P. | VODAFONE Group Plc | VODAFONE Group Plc |
| 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. | Flander | Andreas | BDBOS | BDBOS |
| Mr. | Gabay | David | MITRE Corporation | MITRE Corporation |
| Mr. | Gamishev | Todor | Orange | Orange Spain |
| Dr. | Gao | Feng | China Unicom | China Unicom |
| 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 |
| Mr. | Guo | Longhua | HUAWEI TECH. GmbH | Huawei Tech.(UK) Co.. Ltd |
| Mr. | Gupta | Varini | Samsung R&D Institute India | Samsung R&D Institute India |
| Mr. | Hanhisalo | Markus | Ericsson LM | Ericsson LM |
| Mr. | Hoffpauir | Dusty | Charter Communications, Inc | Charter Communications, Inc |
| Mr. | Hu | Li | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies Japan K.K. |
| Mr. | Ing | John | Public Safety Canada | Public Safety Canada |
| 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 | KPN N.V. |
| 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 China Ltd. |
| Ms. | Koser | Elizabeth | U.S. Department of Defense | U.S. Department of Defense |
| Dr. | Kunz | Andreas | Motorola Mobility Germany GmbH | Motorola Mobility Germany GmbH |
| Mr. | Laitinen | Mika | Airbus | Airbus |
| Mr. | Leadbeater | Alex | BT plc | BT plc |
| Dr. | Lee | Duckey | Samsung R&D Institute UK | Samsung Electronics Iberia SA |
| Dr. | Lee | Soo Bum | Qualcomm Incorporated | Qualcomm Incorporated |
| Mr. | Lee | Xiaoyang | CISA ECD | CISA ECD |
| Mr. | Lehtovirta | Vesa | Ericsson LM | Ericsson LM |
| Dr. | Lei | Ao | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies (Korea) |
| Mr. | Lei | Yu | Beijing Xiaomi Mobile Software | Xiaomi Communications |
| Dr. | Lei | Zander (Zhongding) | HuaWei Technologies Co., Ltd | HUAWEI TECHNOLOGIES Co. Ltd. |
| Mr. | Li | He | HUAWEI TECHNOLOGIES Co. Ltd. | HUAWEI TECH. GmbH |
| Mr. | Libunao | Gerardo | Verizon UK Ltd | Verizon UK Ltd |
| Dr. | Lim | Taehyung | Samsung R&D Institute UK | Samsung Electronics Polska |
| Mr. | Liu | Chang | China Mobile Research Inst. | China Mobile E-Commerce Co. |
| Dr. | Liu | Fuwen | China Mobile Com. Corporation | China Mobile Group Device Co. |
| 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 |
| Ms. | Lu | Wei | Xiaomi Technology | Xiaomi Technology |
| Mr. | Manganahalli Jayaprakash | Sandesh | TNO | KPN N.V. |
| Dr. | Maximov | Alexander | Ericsson LM | Ericsson LM |
| Mr. | McKee | Alan | NCSC | NCSC |
| Mr. | MICHEL | Cyril | THALES | THALES |
| Dr. | Muhanna | Ahmad | Mavenir | Mavenir |
| Mr. | Munib SHah | Munib | Cisco Systems | TIA |
| Mr. | Nair | Suresh | Nokia Germany | Nokia Solutions & Networks (I) |
| Mr. | Nakarmi | Prajwol Kumar | Ericsson Limited | Ericsson Limited |
| Mr. | Niemi | Marko | MediaTek Inc. | MediaTek Inc. |
| Mr. | Norton | Mark | U.S. Department of Defense | U.S. Department of Defense |
| Mr. | O'Driscoll | James | NCSC | NCSC |
| Mr. | Palanigounder | Anand | Qualcomm Technologies Int | Qualcomm Incorporated |
| Ms. | Parambath Sasi | NIvedya | Samsung R&D Institute India | Samsung Electronics GmbH |
| 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. | PINTO | BARUCH | Allot Ltd | Allot Ltd |
| 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 R&D Institute UK |
| Ms. | Rajendran | Rohini | Samsung R&D Institute India | Samsung Electronics Romania |
| Mrs. | Rong | Wu | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Device Co., Ltd |
| Mr. | Rutkowski | Tony | CIS | CIS |
| Mr. | Schumacher | Greg | T-Mobile USA | T-Mobile USA |
| Mr. | Shang | Chao | Xidian University | Xidian University |
| Ms. | Shen | Jun | China Telecommunications | China Telecommunications |
| Ms. | Shen | Yang | Beijing Xiaomi Mobile Software | Beijing Xiaomi Mobile Software |
| Dr. | Shyy | DJ | MITRE Corporation | MITRE Corporation |
| Mr. | Smith | Brian | Bell Mobility | Bell Mobility |
| Dr. | Son | Jungje | Samsung R&D Institute UK | Samsung Electronics Nordic AB |
| Dr. | Staufer | Markus | Nokia Germany | Nokia France |
| Mr. | Syrett | Mark | Hewlett-Packard Enterprise | Hewlett-Packard Enterprise |
| Mr. | Taylor | Richard | Public Safety Canada | Public Safety Canada |
| Mr. | Tiwari | Kundan | NEC Corporation | NEC Corporation |
| Mr. | Toor | Gurbakshish Singh | TD Tech Ltd | HuaWei Technologies Co., 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 Japan K.K. |
| Mrs. | Vahidi | Helena | Ericsson LM | Ericsson LM |
| Dr. | Wan | Tao | CableLabs | CableLabs |
| Mr. | Whorlow | Colin | NCSC | HOME OFFICE |
| Ms. | Wifvesson | Monica | Ericsson LM | Ericsson LM |
| Mr. | Wong | Marcus | Futurewei | Futurewei |
| Mr. | Woodward | Tim | Motorola Solutions Danmark A/S | Motorola Solutions Danmark A/S |
| Miss | Wu | Yizhuang | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies R&D UK |
| Miss | Xie | Zecheng | China Unicom | China Unicom |
| Ms. | Xing | Zhen | ZTE Corporation | ZTE Corporation |
| Mr. | xu | sen | China Telecommunications | China Telecomunication Corp. |
| Mr. | Xu | Yang | Guangdong OPPO Mobile Telecom. | Guangdong OPPO Mobile Telecom. |
| Miss | Yang | Haorui | Beijing OPPO Com. corp., ltd | Beijing OPPO Com. corp., ltd |
| Dr. | Yu | Xiaobo | Alibaba (China) Group., Ltd. | Alibaba (China) Group., Ltd. |
| Dr. | Zhang | Bo | HUAWEI TECHNOLOGIES Co. Ltd. | Huawei Technologies France |
| Miss | Zhang | Ling | CATT | CATT |
| Ms. | Zhang | Wanqiao | Alibaba (China) Group., Ltd. | Alibaba (China) Group., Ltd. |
| Mr. | Zhou | Wei | CATT | CATT |
| Mr. | Zhu | Chunhui | Spreadtrum Communications | Spreadtrum Communications |
| Ms. | Zhuang | xiaojun | China Mobile Com. Corporation | China Mobile International Ltd |
| 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-Bis | 01-03-2021 | 05-03-2021 |  | Electronic meeting | SA3#102e-Bis |
| SA3#103e | 17-05-2021 | 28-05-2021 |  | Electronic meeting | SA3#103e |